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STATESSECURITIES AND EXCHANGE COMMISSIONWASHINGTON, D.C. 20549FORMÂ 10-Q (MARK ONE)â˜QUARTERLY REPORT PURSUANT TO SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934FOR THE QUARTERLY PERIOD ENDED JULYÂ 31, 2024 ORâ˜TRANSITION REPORT PURSUANT TO SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934FOR THE TRANSITION PERIOD FROM Â Â Â

compensation142,968Â 142,968Â 1,496Â 144,464Â Adjustments for redeemable non-controlling interest(2,640)(2,640)(2,640)Recognition of non-controlling interest upon issuance of subsidiary stockâ€”Â (576)(576)Balance at JulyÂ 31, 2023152,125Â $1,521Â $1,257,382Â $6,389,825Â $(1,542,889)$(147,284)$5,958,555Â $5,449Â $5,964,004Â Balance at OctoberÂ 31, 2022152,375Â $1,524Â $1,487,126Â $5,534,307Â $(1,272,955)$(234,277)$5,515,725Â $4,801Â $5,520,526Â Net income880,698Â 880,698Â (1,217)879,481Â Other comprehensive income (loss), net of tax effects86,993Â 86,993Â 86,993Â Purchases of treasury stock(2,382)(24)24Â (860,724)(860,724)(860,724)Equity forward contract, net(45,000)(45,000)(45,000)Common stock issued, net of shares withheld for employee taxes2,132Â 21Â (603,944)(19,108)590,790Â (32,241)(32,241)Stock-based compensation418,047Â 418,047Â 3,902Â 421,949Â Adjustment for redeemable non-controlling interest(6,072)(6,072)(6,072)Recognition of non-controlling interest upon issuance of subsidiary stock1,129Â 1,129Â (2,037)(908)Balance at JulyÂ 31, 2023152,125Â $1,521Â $1,257,382Â $6,389,825Â $(1,542,889)$(147,284)$5,958,555Â $5,449Â $5,964,004Â See the accompanying Notes to Condensed Consolidated Financial Statements (unaudited).6SYNOPSYS, INC.CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS(Unaudited, in thousands)Â Nine Months EndedÂ Â July 31,Â 20242023Cash flows from operating activities:Net income$1,140,190Â $871,630Â Adjustments to reconcile net income to net cash provided by operating activities:Amortization and depreciation180,149Â 180,033Â Reduction of operating lease right-of-use assets72,196Â 72,647Â Amortization of capitalized costs to obtain revenue contracts57,071Â 61,677Â Stock-based compensation540,026Â 421,949Â Allowance for credit losses14,696Â 11,937Â Gain on sale of strategic investments(55,077)â€”Â Amortization of bridge financing costs18,435Â â€”Â Deferred income taxes(276,840)(166,061)Other non-cash(3,730)8,649Â Net changes in operating assets and liabilities, net of acquired assets and assumed liabilities:Accounts receivable59,159Â 112,511Â Inventories(71,303)(77,919)Prepaid and other current assets(350,652)8,373Â Other long-term assets(137,159)(116,487)Accounts payable and accrued liabilities17,532Â 48,574Â Operating lease liabilities(72,254)(52,914)Income taxes(241,952)123,924Â Deferred revenue(46,276)(131,310)Net cash provided by operating activities844,211Â 1,377,213Â Cash flows from investing activities:Proceeds from maturities and sales of short-term investments98,465Â 104,139Â Purchases of short-term investments(97,181)(102,457)Proceeds from sales of strategic investments55,696Â 7,248Â Purchases of strategic investments(1,240)(435)Purchases of property and equipment(118,772)(136,520)Acquisitions, net of cash acquired(156,947)(51,324)Capitalization of software development costsâ€”Â (2,204)Net cash used in investing activities(219,979)(181,553)Cash flows from financing activities:Repayment of debt(2,607)(2,603)Payment of bridge financing and term loan costs(72,265)â€”Â Issuances of common stock143,148Â 164,841Â Payments for taxes related to net share settlement of equity awards(278,571)(198,969)Purchase of equity forward contractâ€”Â (45,000)Purchases of treasury stockâ€”Â (860,724)Other(1,096)(122)Net cash used in financing activities(211,391)(942,577)Effect of exchange rate changes on cash, cash equivalents and restricted cash5,458Â 14,997Â Net change in cash, cash equivalents and restricted cash 418,299Â 268,080Â Cash, cash equivalents and restricted cash, beginning of year, including cash from discontinued operations1,441,187Â 1,419,864Â Cash, cash equivalents and restricted cash, end of period, including cash from discontinued operations 1,859,486Â 1,687,944Â Less: Cash, cash equivalents and restricted cash from discontinued operations17,441Â 4,835Â Cash, cash equivalents and restricted cash from continuing operations$1,842,045Â $1,683,109Â See the accompanying Notes to Condensed Consolidated Financial Statements (unaudited).7SYNOPSYS, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS(Unaudited)NoteÂ 1. Description of BusinessSynopsys, Inc. (Synopsys, we, our or us) delivers trusted and comprehensive silicon to systems design solutions, from electronic design automation (EDA), including system verification and validation solutions, to silicon intellectual property (IP). We partner closely with semiconductor and systems customers across a wide range of industries to maximize their research and development capability and productivity. We are catalyzing the era of pervasive intelligence to power innovation today that ignites the ingenuity of tomorrow.We are a global leader in supplying the EDA software that engineers use to design and test integrated circuits (ICs), also known as chips or silicon, and we are pioneering artificial intelligence (AI) driven chip design across the full-stack EDA suite to improve efficiency and accelerate the design, verification testing and manufacturing of advanced digital and analog chips. We provide software and hardware used to validate the electronic systems that incorporate chips and the software that runs on them, including cloud-based digital design flow to boost chip-design development productivity. We also provide technical services and support to help our customers develop advanced chips and electronic systems. These products and services are part of our Design Automation segment.We also offer a broad and comprehensive portfolio of semiconductor IP solutions, which are pre-designed circuits that engineers use as components of larger chip designs to reduce integration risk and speed time to market. Our high quality, silicon-proven semiconductor IP includes logic libraries, embedded memories, analog IP, wired and wireless interface IP, security IP, embedded processors and subsystems. To accelerate IP integration and silicon bring-up, our IP accelerated initiative provides architecture design expertise, hardening, and signal and power integrity analysis. These products and services are part of our Design IP segment.NoteÂ 2. Summary of Significant Accounting Policies and Basis of PresentationWe have prepared the accompanying condensed consolidated financial statements pursuant to the rulesÂ and regulations of the Securities and Exchange Commission (SEC). Pursuant to these rulesÂ and regulations, we have condensed or omitted certain information and footnote disclosures we normally include in our annual consolidated financial statements prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). The condensed consolidated financial statements are unaudited but, in managementâ€™s opinion, we have made all adjustments (consisting only of normal, recurring adjustments, except as otherwise indicated) necessary for a fair presentation of our quarterly results. Our interim period operating results do not necessarily indicate the results that may be expected for any other interim period or for the full fiscal year. These financial statements and accompanying notes should be read in conjunction with the consolidated financial statements and notes thereto in our Annual Report on FormÂ 10-K for the fiscal year ended OctoberÂ 31, 2023 as filed with the SEC on DecemberÂ 12, 2023 (our Annual Report). Use of Estimates. To prepare financial statements in conformity with U.S. GAAP, management must make estimates and assumptions that affect the amounts reported in the condensed consolidated financial statements and accompanying notes. Actual results could differ from these estimates and could have a material impact on our operating results and financial position.Principles of Consolidation. The condensed consolidated financial statements include our accounts and the accounts of our wholly and majority-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation.Fiscal Year and Fiscal Quarter End. Our fiscal year ends on the Saturday nearest to OctoberÂ 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023. Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on August 3, 2024 and July 29, 2023, respectively. For presentation purposes, the condensed consolidated financial statements and accompanying notes refer to the closest calendar month end.8Software Integrity Divestiture. During the second quarter of fiscal 2024, we determined that our Software Integrity business met the criteria to be classified as a discontinued operation, and, as a result, Software Integrityâ€™s historical financial results are reflected in our consolidated financial statements as discontinued operations, and assets and liabilities were retrospectively reclassified as assets and liabilities held for sale. We did not allocate any general corporate overhead to discontinued operations. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements.Significant Accounting Policies. There have been no material changes to our significant accounting policies included in our Annual Report.Recently Issued Accounting PronouncementsIn June 2022, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2022-03, Fair Value Measurement (Topic 820): Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions, which applies to all equity securities measured at fair value that are subject to contractual sale restrictions. This change prohibits entities from taking into account contractual restrictions on the sale of equity securities when estimating fair value and introduces required disclosures for such transactions. The ASU will become effective for us beginning on November 1, 2024 and will be applied prospectively. Early adoption is permitted. Any future impact from the adoption of this ASU will depend on the facts and circumstances of future transactions.In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The ASU expands public entitiesâ€™ segment disclosures by requiring disclosure of significant segment expenses that are regularly provided to the Chief Operating Decision Maker (CODM) and included within each reported measure of segment profit or loss, an amount and description of its composition for other segment items, and interim disclosures of a reportable segmentâ€™s profit or loss and assets. The ASU is effective for our annual report beginning in the fiscal year 2025, and interim period reports beginning in the first quarter of the fiscal year 2026 on a retrospective basis. Early adoption is permitted. We are currently evaluating the impact of adopting this ASU on our consolidated financial statements and disclosures.In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which enhances the transparency and decision usefulness of income tax disclosures primarily through changes to the rate reconciliation and income taxes paid information. The ASU will become effective for us beginning on November 1, 2025 and will be applied on a prospective basis, with a retrospective option. Early adoption is permitted. We are currently evaluating the impact of this ASU on our consolidated financial statements and related disclosures. Note 3. Discontinued OperationsOn May 5, 2024, we entered into an Equity Purchase Agreement (the Purchase Agreement) by and between Synopsys and Sapphire Software Buyer, Inc. (Buyer), an entity controlled by funds affiliated with Clearlake Capital Group, L.P. and Francisco Partners (together, the Sponsors), pursuant to which we will sell our Software Integrity business. Pursuant to the Purchase Agreement, and subject to the satisfaction or waiver of customary closing conditions specified therein, we will sell our Software Integrity business to the Buyer (the Software Integrity Divestiture) for a purchase price of up to $2.1Â billion in cash, comprised of: (i) $1.5Â billion, payable at closing; (ii) $125Â million, payable in equal installments over five fiscal quarters beginning on the first business day after the 75th day of our first full fiscal quarter following the closing, subject to acceleration at our option prior to the closing of our pending acquisition of ANSYS, Inc. (Ansys); and (iii) up to $475Â million, payable upon the Sponsors achieving a specified rate of return in the event of one or more potential liquidity transactions. The Software Integrity Divestiture, which was unanimously approved by our Board of Directors, is currently expected to close in the second half of 2024, subject to customary closing conditions including the receipt of required regulatory approvals.9Management believes that the Software Integrity Divestiture has met the criteria to be disclosed as discontinued operations as it represents a significant strategic shift that has a major effect on our operations and financial results. The results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. Further, we reclassified the assets and liabilities of the Software Integrity business as assets and liabilities held for sale in the condensed consolidated statements of balance sheets for all periods presented. The condensed consolidated statements of cash flows are presented on a consolidated basis for both continuing operations and discontinued operations. We did not allocate any general corporate overhead to the Software Integrity business. Unless otherwise noted, reference within these Notes to Condensed Consolidated Financial Statements relates to continuing operations.The financial results of the Software Integrity business are presented as income (loss) from discontinued operations, net of income taxes on our condensed consolidated statements of income. The following table presents the major components of financial results of our Software Integrity business for the periods presented:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,2024202320242023(in thousands)Revenue$127,917Â $132,898Â $392,579Â $392,860Â Cost of revenue40,279Â 47,050Â 136,010Â 145,188Â Operating expenses91,854Â 90,450Â 262,745Â 258,008Â Interest and other income (expense), net605Â 324Â 1,601Â 722Â Income (loss) from discontinued operations before income taxes(3,611)(4,278)(4,575)(9,614)Income tax provisions (benefits)14,202Â (4,822)8,580Â (9,318)Income (loss) from discontinued operations, net of income taxes$(17,813)$544Â $(13,155)$(296)As of JulyÂ 31, 2024, the assets and liabilities of our Software Integrity business are classified as current in our condensed consolidated balance sheets, as it is probable that the sale will occur within one year. The following table represents the aggregated carrying amounts of classes of assets and liabilities that are classified as discontinued operations on the condensed consolidated balance sheets for the periods presented:July 31, 2024(in thousands)Assets:Cash and cash equivalents$17,441Â Accounts receivable, net78,930Â Prepaid and other assets48,550Â Property and equipment, net6,373Â Operating lease right-of use assets, net6,646Â Goodwill724,294Â Intangible assets, net119,141Â Deferred income taxes26,327Â Total current assets held for sale$1,027,702Â Liabilities:Accounts payable and accrued liabilities$91,874Â Operating lease liabilities5,626Â Deferred revenue233,794Â Total current liabilities held for sale$331,294Â 10October 31, 2023(in thousands)Assets:Cash and cash equivalents$4,947Â Accounts receivable, net90,307Â Prepaid and other current assets19,400Â Total current assets held for sale$114,654Â Property and equipment, net$7,424Â Operating lease right-of use assets, net8,906Â Goodwill724,271Â Intangible assets, net134,617Â Deferred income taxes7,388Â Other long-term assets26,153Â Total long-term assets held for sale$908,759Â Liabilities:Accounts payable and accrued liabilities$63,847Â Operating lease liabilities5,858Â Deferred revenue216,539Â Total current liabilities held for sale$286,244Â Long-term operating lease liabilities$4,349Â Long-term deferred revenue24,301Â Other long-term liabilities4,607Â Total long-term liabilities held for sale$33,257Â The following table presents significant non-cash items and capital expenditures of discontinued operations for the periods presented:Nine Months Ended July 31,20242023(in thousands)Amortization and depreciation$16,317Â $37,495Â Reduction of operating lease right-of-use assets$2,162Â $3,481Â Amortization of capitalized costs to obtain revenue contracts $20,808Â $21,398Â Stock-based compensation$47,476Â $37,495Â Deferred income taxes$18,939Â $7,388Â Purchases of property and equipment$972Â $2,351Â Note 4. Pending Acquisition of AnsysOn January 15, 2024, we entered into an Agreement and Plan of Merger (the Merger Agreement) to acquire all of the outstanding shares of Ansys, a provider of broad engineering simulation and analysis software and services, in a cash-and-stock transaction (the Ansys Merger) that values Ansys at approximately $35.0Â billion, based on the closing price of Synopsys common stock on December 21, 2023. Under the terms of the Merger Agreement, at the effective time of the Ansys Merger (the Effective Time), each share of Ansys common stock issued and outstanding immediately prior to the Effective Time (with certain exceptions set forth in the Merger Agreement) will be converted into the right to receive 0.3450 (the Exchange Ratio) of a share of Synopsys common stock and $197.00 in cash, without interest. The Merger Agreement also provides for Synopsysâ€™ assumption of certain outstanding Ansys options and other unvested Ansys equity awards held by continuing Ansys 11employees. If the stock consideration to be issued by Synopsys in connection with the Ansys Merger exceeds 19.9999% of the shares of Synopsys common stock issued and outstanding immediately prior to the Effective Time, the Exchange Ratio will be reduced to the minimum extent necessary to ensure that the aggregate number of shares of Synopsys common stock to be issued in connection with the Ansys Merger does not exceed such threshold, and the cash consideration will be correspondingly increased to offset such adjustment.The Ansys Merger was approved by the holders of a majority of the outstanding shares of Ansys common stock on May 22, 2024 and is anticipated to close in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including the expiration or termination of the waiting period under the Hart-Scott-Rodino Antitrust Improvement Act of 1976, as amended, the clearance of the Ansys Merger under certain other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. We and Ansys each have termination rights under the Merger Agreement. A fee of $1.5Â billion may be payable by us to Ansys, or a fee of $950.0Â million may be payable by Ansys to us, upon termination of the Merger Agreement under specified circumstances, each as more fully described in the Merger Agreement.In connection with the execution of the Merger Agreement, we entered into a commitment letter on January 15, 2024 (the Bridge Commitment Letter) with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, a senior unsecured bridge facility (the Bridge Commitment). The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. On FebruaryÂ 13, 2024, we entered into a term loan facility credit agreement (the Term Loan Agreement), which provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on the Bridge Commitment and the Term Loan Agreement.Note 5. Business CombinationsDuring the nine months ended JulyÂ 31, 2024, we completed three acquisitions for aggregate purchase consideration of $159.3Â million, net of cash acquired. The purchase consideration was allocated as follows: $78.9Â million to identifiable intangible assets, $97.5Â million to goodwill, and $17.1Â million to net tangible liabilities. The total purchase consideration is preliminary, and as additional information becomes available, we may further revise it during the remainder of the measurement period, which will not exceed 12 months from the closing of the acquisition. The goodwill recognized from these acquisitions, of which $62.7 million was attributable to the Design Automation reporting unit and $34.8 million was attributable to the Design IP reporting unit, was not deductible for income tax purposes.We have included the financial results of these acquisitions in our condensed consolidated financial statements from the date of each acquisition. These results were not material to our condensed consolidated financial statements.Transaction costs were $53.0 million and $110.2 million during the three and nine

months ended JulyÂ 31, 2024, respectively. Transaction costs were $4.8 million and $9.8 million during the three and nine months ended July 31, 2023, respectively. These costs mainly consisted of professional fees and administrative costs for closed and pending acquisitions and were expensed as incurred in our condensed consolidated statements of income.Note 6. RevenueDisaggregated Revenue12The following table shows the percentage of revenue by product groups:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,20242023202420232EDA66.9Â %71.8Â %66.8Â %71.3Â %Design IP30.4Â %25.9Â %30.9Â %26.7Â %Other2.7Â %2.3Â %2.3Â %2.0Â %Total100.0Â %100.0Â %100.0Â %100.0Â %Contract BalancesThe contract assets indicated below are presented as prepaid and other current assets in the condensed consolidated balance sheets. The contract assets are transferred to receivables when the rights to invoice and receive payment become unconditional. Unbilled receivables are presented as accounts receivable, net, in the condensed consolidated balance sheets.Contract balances are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Contract assets, net$693,874Â $375,904Â Unbilled receivables$33,603Â $60,016Â Deferred revenue$1,675,884Â $1,710,288Â During the three and nine months ended JulyÂ 31, 2024, we recognized revenue of $216.8 million and $1.3 billion, respectively, that was included in the deferred revenue balance as of OctoberÂ 31, 2023, including previously unfulfilled contracts that have expired and are no longer subject to an implied promise to provide future services.Contracted but unsatisfied or partially unsatisfied performance obligations (backlog) were approximately $7.9 billion as of JulyÂ 31, 2024, which includes $1.2 billion in non-cancellable Flexible Spending Account (FSA) commitments from customers where actual product selection and quantities of specific products or services are to be determined by customers at a later date. We have elected to exclude future sales-based royalty payments from the remaining performance obligations. Approximately 40% of the backlog as of JulyÂ 31, 2024, excluding non-cancellable FSA, is expected to be recognized as revenue over the next 12 months, with the remainder recognized thereafter. The majority of the remaining backlog is expected to be recognized in the following three years.During the three and nine months ended JulyÂ 31, 2024, we recognized $21.1 million and $73.9 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. During the three and nine months ended JulyÂ 31, 2023, we recognized $24.2 million and $75.8 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. Costs of Obtaining a Contract with CustomerCapitalized commission costs, net of accumulated amortization, as of JulyÂ 31, 2024 were $70.5 million and are included in other long-term assets in our condensed consolidated balance sheets. Amortization of these assets was $12.6 million and $36.3 million during the three and nine months ended JulyÂ 31, 2024, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income. Amortization of these assets was $14.0 million and $40.3 million during the three and nine months ended JulyÂ 31, 2023, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income.Note 7. Goodwill and Intangible AssetsGoodwillThe changes in the carrying amount of goodwill during the nine months ended JulyÂ 31, 2024 are as follows:13Â (in thousands)Balance at OctoberÂ 31, 2023$3,346,065Â Additions97,521Â Adjustments173Â Effect of foreign currency translation590Â Balance at JulyÂ 31, 2024$3,444,349Â Intangible AssetsIntangible assets as of JulyÂ 31, 2024 consist of the following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (in thousands)Core/developed technology$904,381Â $711,119Â $193,262Â Customer relationships314,154Â 242,955Â 71,199Â Contract rights intangible176,343Â 174,724Â 1,619Â Trademarks and trade names12,925Â 12,913Â 12Â Total$1,407,803Â $1,141,711Â $266,092Â Intangible assets as of OctoberÂ 31, 2023 consist of the following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (inÂ thousands)Core/developed technology$842,448Â $672,480Â $169,968Â Customer relationships296,883Â 231,557Â 65,326Â Contract rights intangible175,747Â 171,487Â 4,260Â Trademarks and trade names12,925Â 12,902Â 23Â Capitalized software development costs50,795Â 50,795Â â€”Â Total$1,378,798Â $1,139,221Â $239,577Â Amortization expense related to intangible assets consists of the following:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232023Â (inÂ thousands)Core/developed technology$13,447Â $10,436Â $38,373Â $31,427Â Customer relationships4,058Â 2,011Â 11,467Â 5,945Â Contract rights intangible1,063Â 558Â 3,465Â 1,257Â Trademarks and trade names4Â 3Â 12Â 3Â Capitalized software development costs(1)â€”Â 557Â â€”Â 1,626Â Total$18,572Â $13,565Â $53,317Â $40,258Â (1) Amortization of capitalized software development costs is included in cost of products revenue in the condensed consolidated statements of income.14The following table presents the estimated future amortization of acquired intangible assets as of JulyÂ 31, 2024:FiscalÂ year(inÂ thousands)Remainder of fiscal 2024$17,344Â 202562,103Â 202651,778Â 202746,831Â 202832,099Â 2029 and thereafter55,937Â Total$266,092Â Note 8. Balance Sheet ComponentsAs ofJuly 31, 2024October 31, 2023(in thousands)Other long-term assets:Deferred compensation plan assets$373,306Â $297,180Â Capitalized commission, net70,532Â 67,240Â Other135,935Â 80,400Â Total$579,773Â $444,820Â Accounts payable and accrued liabilities:Payroll and related benefits$530,948Â $531,848Â Accrued income taxes3,172Â 226,762Â Other accrued liabilities144,316Â 146,696Â Accounts payable78,547Â 154,608Â Total$756,983Â $1,059,914Â Other long-term liabilities:Deferred compensation plan liabilities$373,306Â $297,180Â Other91,927Â 84,351Â Total$465,233Â $381,531Â Note 9. Financial Assets and LiabilitiesCash Equivalents and Short-term Investments15As of July 31, 2024, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$44,537Â $â€”Â $â€”Â $â€”Â $44,537Â U.S. Treasury, agency & T-bills7,445Â 1Â â€”Â â€”Â 7,446Â Total:$51,982Â $1Â $â€”Â $â€”Â $51,983Â Short-term investments:U.S. Treasury, agency & T-bills$18,250Â $61Â $â€”Â (9)18,302Â Corporate debt securities104,267Â 528Â (13)(24)104,758Â Asset-backed securities31,237Â 164Â (2)(28)31,371Â Total:$153,754Â $753Â (15)(61)$154,431Â (1)See Note 10. Fair Value Measurements for further discussion on fair values.The contractual maturities of our available-for-sale debt securities as of JulyÂ 31, 2024 are as follows:Amortized CostFair Value(in thousands)less than 1 year$61,373Â $61,426Â 1-5 years87,412Â 88,022Â 5-10 years3,066Â 3,084Â >10 years1,903Â 1,899Â Total$153,754Â $154,431Â As of OctoberÂ 31, 2023, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$10,129Â $â€”Â $â€”Â $â€”Â $10,129Â U.S. Treasury, agency & T-bills2,994Â â€”Â â€”Â â€”Â 2,994Â Total:$13,123Â $â€”Â $â€”Â $â€”Â $13,123Â Short-term investments:U.S. Treasury, agency & T-bills$15,752Â $â€”Â (61)(2)$15,689Â Municipal bonds515Â â€”Â â€”Â (16)499Â Corporate debt securities103,213Â 13Â (455)(396)102,375Â Asset-backed securities33,245Â 21Â (93)(97)33,076Â Total:$152,725Â $34Â (609)(511)$151,639Â (1)See Note 10. Fair Value Measurements for further discussion on fair values.Restricted cash. We include amounts generally described as restricted cash in cash and cash equivalents when reconciling beginning-of-period and end-of-period total amounts shown on the condensed consolidated statements of cash flows. Restricted cash is primarily associated with office leases and employee loan programs.16The following table provides a reconciliation of cash, cash equivalents and restricted cash included in the condensed consolidated balance sheets and the condensed consolidated statements of cash flows:As ofJuly 31, 2024October 31, 2023(in thousands)Cash and cash equivalents$1,839,815Â $1,433,966Â Restricted cash included in prepaid and other current assets1,536Â 1,549Â Restricted cash included in other long-term assets694Â 725Â Cash, cash equivalents and restricted cash$1,842,045Â $1,436,240Â Cash, cash equivalents and restricted cash from discontinued operations17,441Â 4,947Â Total cash, cash equivalents and restricted cash, including cash from discontinued operations$1,859,486Â $1,441,187Â Non-marketable equity securities. Our portfolio of non-marketable equity securities consists of strategic investments in privately held companies. In November 2023, we completed the sale of strategic investments in privately-held companies. The gain recognized from the sales was $55.1Â million and included in interest and other income (expense), net, in our condensed consolidated statements of income. There were no material impairments of non-marketable equity securities during the three and nine months ended JulyÂ 31, 2024 and 2023.DerivativesWe recognize derivative instruments as either assets or liabilities in the condensed consolidated balance sheets at fair value and provide qualitative and quantitative disclosures about such derivatives. We operate internationally and are exposed to potentially adverse movements in foreign currency exchange rates. We enter into hedges in the form of foreign currency forward contracts to reduce our exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions including: (1)Â certain assets and liabilities, (2)Â shipments forecasted to occur within approximately one month, (3)Â future billings and revenue on previously shipped orders, and (4)Â certain future intercompany invoices denominated in foreign currencies.The duration of forward contracts, the majority of which are short-term, ranges from approximately 2 months to 29 months at inception. We do not use foreign currency forward contracts for speculative or trading purposes. We enter into foreign exchange forward contracts with high credit quality financial institutions that are rated "A" or above and to date have not experienced nonperformance by counterparties. In addition, we mitigate credit risk in derivative transactions by permitting net settlement of transactions with the same counterparty and anticipate continued performance by all counterparties to such agreements.The assets or liabilities associated with the forward contracts are recorded at fair value in other current assets or accrued liabilities in the condensed consolidated balance sheets. The accounting for gains and losses resulting from changes in fair value depends on the use of the foreign currency forward contract and whether it is designated and qualifies for hedge accounting. The cash flow impact upon settlement of the derivative contracts is included in net cash provided by operating activities in the condensed consolidated statements of cash flows.Cash Flow Hedging ActivitiesCertain foreign exchange forward contracts are designated and qualify as cash flow hedges. These contracts have durations of approximately 29 months or less. Certain forward contracts are rolled over periodically to capture the full length of exposure to our foreign currency risk, which can be up to three years. To receive hedge accounting treatment, all hedging relationships are formally documented at the inception of the hedge, and the hedges must be highly effective in offsetting changes to future cash flows on the hedged transactions. The related gains or losses resulting from changes in fair value of these hedges is initially reported, net of tax, as a component of other comprehensive income (loss) (OCI) in stockholdersâ€™ equity and reclassified into revenue or operating expenses, as appropriate, at the time the hedged transactions affect earnings. We expect a majority of the hedge balance in OCI to be reclassified to the statements of income within the next 12 months.We did not record any gains or losses related to discontinuation of cash flow hedges during the nine months ended JulyÂ 31, 2024 and 2023.17Non-designated Hedging ActivitiesOur foreign exchange forward contracts that are used to hedge non-functional currency denominated balance sheet assets and liabilities are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the underlying assets and liabilities, which are also recorded in interest and other income (expense), net. The duration of the forward contracts for hedging our balance sheet exposure is approximately one month.We also have certain foreign exchange forward contracts for hedging certain international revenues and expenses that are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the foreign currency in operating income. The duration of these forward contracts is usually less than one year. The overall goal of our hedging program is to minimize the impact of currency fluctuations on the net income over the fiscal year.The effects of the non-designated derivative instruments on the condensed consolidated statements of income are summarized as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232023Â (in thousands)Gains (losses) recorded in Interest and other income (expense), net$955Â $(1,205)$(110)$3,532Â The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding:As ofJuly 31, 2024October 31, 2023Â (in thousands)Total gross notional amounts$1,816,755Â $1,666,758Â Net fair value$5,768Â $(2,308)Our exposure to the market gains or losses will vary over time as a function of currency exchange rates. The amounts ultimately realized upon settlement of these financial instruments, together with the gains and losses on the underlying exposures, will depend on actual market conditions during the remaining life of the instruments.The following table represents the condensed consolidated balance sheets location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments:FairÂ valuesÂ ofderivativeÂ instrumentsdesignatedÂ asÂ hedginginstrumentsFairÂ valuesÂ ofderivativeÂ instrumentsnot designated ashedging instrumentsÂ (in thousands)Balance at JulyÂ 31, 2024Other current assets$13,655Â $820Â Accrued liabilities$7,498Â $1,209Â Balance at OctoberÂ 31, 2023Other current assets$12,962Â $491Â Accrued liabilities$14,665Â $1,096Â 18The following table represents the location of the amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax in the condensed consolidated statements of income:LocationÂ ofÂ gainsÂ (losses) recognized in OCI on derivativesAmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ onderivatives(effective portion)LocationÂ ofgainsÂ (losses)reclassifiedÂ from OCIAmountÂ ofgainsÂ (losses)reclassifiedÂ fromOCI(effectiveÂ portion)Â (in thousands)Three months endedÂ Â July 31, 2024ForeignÂ exchangeÂ contractsRevenue$4,501Â Revenue$2,689Â ForeignÂ exchangeÂ contractsOperatingÂ expenses(320)OperatingÂ expenses(611)Total$4,181Â $2,078Â Three months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$899Â Revenue$(1,352)Foreign exchangeÂ contractsOperatingÂ expenses5,008Â OperatingÂ expenses(3,898)Total$5,907Â $(5,250)Nine months endedÂ Â July 31, 2024ForeignÂ exchangeÂ contractsRevenue$1,936Â Revenue$(1,593)ForeignÂ exchangeÂ contractsOperatingÂ expenses5,720Â OperatingÂ expenses(763)Total$7,656Â $(2,356)Nine months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$7,315Â Revenue$(10,856)Foreign exchangeÂ contractsOperatingÂ expenses36,174Â OperatingÂ expenses(12,025)Total$43,489Â $(22,881)Note 10. Fair Value MeasurementsASC 820-10, Fair Value Measurements and Disclosures, defines fair value, establishes guidelines and enhances disclosure requirements for fair value measurements. The accounting guidance requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The accounting guidance also establishes a fair value hierarchy based on the independence of the source and objective evidence of the inputs used. There are three fair value hierarchies based upon the level of inputs that are significant to fair value measurement:LevelÂ 1â€”Observable inputs that reflect quoted prices (unadjusted) for identical instruments in active markets;LevelÂ 2â€”Observable inputs other than quoted prices for identical instruments in active markets, quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in inactive markets, and model-driven valuations in which all significant inputs and significant value drivers are observable in active markets; andLevelÂ 3â€”Unobservable inputs derived from fair valuation techniques in which one or more significant inputs or significant value drivers are unobservable.On a recurring basis, we measure the fair value of certain assets and liabilities, which include cash equivalents, short-term investments, non-qualified deferred compensation plan assets, and foreign currency derivative contracts.Our cash equivalents and short-term investments are classified within Level 1 or Level 2 because they are valued using quoted market prices in an active market or alternative independent pricing sources and models utilizing market observable inputs.19Our non-qualified deferred compensation plan assets consist of money market and mutual funds invested in domestic and international marketable securities that are directly observable in active markets and are therefore classified within Level 1.Our foreign currency derivative contracts are classified within Level 2 because these contracts are not actively traded, and the valuation inputs are based on quoted prices and market observable data of similar instruments.Our borrowings under our credit and term loan facilities are classified within Level 2 because these borrowings are not actively traded and have a variable interest rate structure based upon market rates currently available to us for debt with similar terms and maturities. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on these borrowings.Assets/Liabilities Measured at Fair Value on a Recurring BasisAssets and liabilities measured at fair value on a recurring basis are summarized below as of JulyÂ 31, 2024:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active MarketsforÂ IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$44,537Â 44,537Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills7,446Â â€”Â 7,446Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills18,302Â â€”Â 18,302Â â€”Â Corporate debt securities104,758Â â€”Â 104,758Â â€”Â Asset-backed securities31,371Â â€”Â 31,371Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts14,475Â â€”Â 14,475Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets373,306Â 373,306Â â€”Â â€”Â Total assets$594,195Â $417,843Â $176,352Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$8,707Â $â€”Â $8,707Â $â€”Â Other long-term liabilities:DeferredÂ compensationÂ plan liabilities373,306Â 373,306Â â€”Â â€”Â Total liabilities$382,013Â $373,306Â $8,707Â $â€”Â 20Assets and liabilities measured at fair value on a recurring basis are summarized below as of OctoberÂ 31, 2023:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active Marketsfor

IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$10,129Â $10,129Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills2,994Â â€”Â 2,994Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills15,689Â â€”Â 15,689Â â€”Â Municipal bonds499Â â€”Â 499Â â€”Â Corporate debt securities102,375Â â€”Â 102,375Â â€”Â Asset-backed securities33,076Â â€”Â 33,076Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts13,453Â â€”Â 13,453Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets297,180Â 297,180Â â€”Â â€”Â Total assets$475,395Â $307,309Â $168,086Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$15,761Â $â€”Â $15,761Â $â€”Â Other long-term liabilities:Deferred compensation plan liabilities297,180Â 297,180Â â€”Â â€”Â Total liabilities$312,941Â $297,180Â $15,761Â $â€”Â Assets/Liabilities Measured at Fair Value on a Non-Recurring BasisNon-Marketable Equity SecuritiesNon-marketable equity securities are classified within Level 3 as they are valued using a combination of observable transaction price and unobservable inputs or data in an inactive market due to the absence of market price and inherent lack of liquidity.Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit FacilitiesOn January 15, 2024, we entered into the Bridge Commitment Letter with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, the Bridge Commitment. The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. The proceeds of any borrowing under the Bridge Commitment will be used for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement.The commitments to provide the Bridge Commitment may be terminated in whole or reduced in part, at our discretion. In addition, the Bridge Commitment Letter provides that net cash proceeds received from certain debt and equity issuances or the sale of certain businesses and assets, including the pending Software Integrity Divestiture, as well as term loan commitments under certain qualifying term loan facilities, will result in mandatory commitment reductions under the Bridge Commitment.On February 13, 2024, we entered into the Term Loan Agreement in connection with the financing of the pending Ansys Merger. The Term Loan Agreement provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. 21The Term Loan Agreement provides for two tranches of senior unsecured term loans: a $1.45Â billion tranche (Tranche 1) that matures two years after funding and a $2.85Â billion tranche (Tranche 2) that matures three years after funding. There was no outstanding balance under the Term Loan Agreement as of JulyÂ 31, 2024.The Term Loan Agreement contains a financial covenant requiring that Synopsys maintain a maximum consolidated leverage ratio commencing the last day of the first fiscal quarter ending on or after the completion of the Ansys Merger, as well as other non-financial covenants. Under the Term Loan Agreement, borrowings will bear interest on the principal amount outstanding at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.875% to 1.375% (in the case of Tranche 1) or 1.000% to 1.500% (in the case of Tranche 2) or (ii) the ABR (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.000% to 0.375% (in the case of Tranche 1) or 0.000% to 0.500% (in the case of Tranche 2). On May 14, 2024, a ticking fee began to accrue under the Term Loan Agreement in an amount equal to a rate per annum equal to 0.10% times the actual daily undrawn portion of the commitments in respect of the term loan facility. This ticking fee will accrue until the earlier of (i) termination or expiration of the commitments under the term loan facility or (ii) the funding of the commitments, at which point the accrued amount of the ticking fee will become payable.On FebruaryÂ 13, 2024, we entered into a Sixth Amendment Agreement (the Sixth Amendment), which amended and restated our previous revolving credit agreement, dated as of December 14, 2022 (as amended and restated, the Revolving Credit Agreement).The Revolving Credit Agreement provides an unsecured $850.0Â million committed multicurrency revolving credit facility and an unsecured uncommitted incremental revolving loan facility of up to $150.0Â million. The maturity date of the revolving credit facility is December 14, 2027, which may be extended at our option.Under the Sixth Amendment, certain amendments became effective on FebruaryÂ 13, 2024 and certain additional amendments will become effective upon the completion of the Ansys Merger. Upon the effective date, the Sixth Amendment amended the financial covenant to allow netting of the cash proceeds of certain debt incurred to finance the Ansys Merger as well as certain other modifications set forth therein. Upon the completion of the Ansys Merger, the Sixth Amendment, among other things: (i) amends the applicable margin used to determine the interest that accrues on loans and the facility fee payable under the revolving credit facility to be based on our credit ratings, (ii) amends the financial covenant thresholds under the financial covenant in the Revolving Credit Agreement requiring us to maintain a maximum consolidated leverage ratio and (iii) amends certain conditions to borrowing, other non-financial covenants and events of default.The Revolving Credit Agreement contains a financial covenant requiring us to maintain a maximum consolidated leverage ratio, as well as other non-financial covenants. As of JulyÂ 31, 2024, we were in compliance with the financial covenant.Interest accrues on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Revolving Credit Agreement) plus an applicable margin or (ii) the ABR (as defined in the Revolving Credit Agreement) plus an applicable margin. The applicable margin for Adjusted Term SOFR Rate based loans ranges from 0.785% to 0.975%, based upon Synopsysâ€™ consolidated leverage ratio. The applicable margin for ABR based loans is 0.000%. In addition to the interest on any outstanding loans, Synopsys is also required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.09% to 0.15%Â based on Synopsysâ€™ consolidated leverage ratio on the daily amount of the revolving commitment.Subject to the completion of the Ansys Merger, interest under the Revolving Credit Agreement will accrue on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate plus an applicable margin based on our credit ratings ranging from 0.795% to 1.200% or (ii) the ABR plus an applicable margin based on our credit ratings ranging from 0.000% to 0.200%. In addition to the interest on any outstanding loans, Synopsys will also be required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.080% to 0.175% based on the credit ratings of Synopsys on the daily amount of the revolving commitment.There was no outstanding balance under the Revolving Credit Agreement as of JulyÂ 31, 2024 and OctoberÂ 31, 2023. In July 2018, we entered into a 12-year 220.0 million Renminbi (approximately $33.0 million) credit agreement with a lender in China to support our facilities expansion. Borrowings bear interest at a floating rate based on the 5-year Loan Prime Rate plus 0.74%. As of JulyÂ 31, 2024, we had $15.6 million outstanding balance under the agreement.22The carrying amount of the short-term and long-term debt approximates the estimated fairÂ value.Note 12. LeasesWe have operating lease arrangements for office space, data center, equipment and other corporate assets. These leases have various expiration dates through DecemberÂ 31, 2042, some of which include options to extend the leases for up to 10 years. Because we are not reasonably certain to exercise these renewal options, the options are not considered in determining the lease term and associated potential option payments are excluded from lease payments.The components of our lease expense during the period presented are as follows:Three Months Ended July 31,Nine Months Ended July 31,20242023(inÂ thousands)Operating lease expense (1)$23,800Â $22,018Â $67,848Â $68,165Â Variable lease expense (2)5,182Â 5,622Â 16,761Â 14,684Â Total lease expense$28,982Â $27,640Â $84,609Â $82,849Â (1) Operating lease expense includes immaterial amounts of short-term leases, net of sublease income.(2) Variable lease expense includes payments to lessors that are not fixed or determinable at lease commencement date. These payments primarily consist of maintenance, property taxes, insurance and variable indexed based payments. Supplemental cash flow information during the period presented is as follows:Nine Months Ended July 31,20242023(in thousands)Cash paid for amounts included in the measurement of operating lease liabilities(1)$74,715Â $66,556Â ROU assets obtained in exchange for operating lease liabilities(2)$64,790Â $81,027Â (1) Cash paid for amounts included in the measurement of operating lease liabilities included cash from discontinued operations of $4.3 million and $4.3 million for the periods presented.(2) ROU assets obtained in exchange for operating lease liabilities included ROU assets from discontinued operations of $0.7 million and $1.4 million for the periods presented.Lease term and discount rate information related to our operating leases as of the end of the period presented are as follows: As ofJuly 31, 2024October 31, 2023Weighted-average remaining lease term (in years)7.778.44Weighted-average discount rate2.76Â %2.50Â %23The following table represents the maturities of our future lease payments due under operating leases as of JulyÂ 31, 2024:Lease PaymentsFiscal year(in thousands)Remainder of fiscal 2024$20,499Â 2025112,496Â 2026106,262Â 2027103,600Â 202888,298Â 2029 and thereafter304,542Â Total future minimum lease payments735,697Â Less: Imputed interest77,421Â Total lease liabilities$658,276Â In addition, certain facilities owned by us were leased to third parties under non-cancellable operating lease agreements. These leases have annual escalating payments and have expiration dates through March 31, 2031 in accordance with the terms and conditions of the existing agreement. The lease receipts from owned facilities, including sublease income from other facilities leased by us, due to us as ofÂ JulyÂ 31, 2024Â are as follows:Lease ReceiptsFiscal year(in thousands)Remainder of fiscal 2024$6,357Â 202525,351Â 202626,230Â 202727,376Â 202827,557Â 2029 and thereafter56,491Â Total$169,362Â Note 13. Redeemable Non-controlling InterestDuring the second quarter of fiscal 2022, we acquired a 75% equity interest in OpenLight Photonics, Inc. (OpenLight) for cash consideration of $90.0Â million. The remaining 25% equity interest in OpenLight is held by Juniper Networks, Inc. (the Minority Investor) from their contribution of IP and certain tangible assets.The agreement with the Minority Investor contains redemption features whereby the interest held by the Minority Investor is redeemable either (1) at the option of the Minority Investor on or after the third anniversary of the acquisition or sooner in certain circumstances or (2) at our option beginning on the third anniversary of the acquisition. This option is exercisable at the greater of fair value at the time of redemption or $30.0Â million and was valued at $10.1Â million, resulting in a total consideration of $100.1Â million.During the nine months ended JulyÂ 31, 2024, our ownership interest in OpenLight was reduced to 71% as a result of the recognition of non-controlling interest upon issuance ofÂ OpenLight stock.During the nine months ended JulyÂ 31, 2024, OpenLight incurred a net loss of $28.9Â million, of which $6.9Â million was attributable to redeemable non-controlling interest. As of JulyÂ 31, 2024, the carrying value of the redeemable non-controlling interest was recorded at its estimated fair value of $31.0Â million in the condensed consolidated balance sheets.24Note 14. Accumulated Other Comprehensive Income (Loss)The components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Cumulative currency translation adjustments$(165,578)$(170,104)Unrealized gains (losses) on derivative instruments, net of taxes(15,212)(25,224)Unrealized gains (losses) on available-for-sale securities, net of taxes678Â (1,086)Total$(180,112)$(196,414)The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Reclassifications:Gains (losses) on cash flow hedges, net of taxesRevenues$2,689Â $(1,352)$(1,593)$(10,856)Operating expenses(611)(3,898)(763)(12,025)Total$2,078Â $(5,250)$(2,356)$(22,881)Amounts reclassified during the nine months ended JulyÂ 31, 2024 and 2023 primarily consisted of gains (losses) from our cash flow hedging activities. See Note 9. Financial Assets and Liabilities of the Notes to Condensed Consolidated Financial Statements.Note 15. Stock Repurchase ProgramIn fiscal 2022, our Board of Directors approved a stock repurchase program (the Program) with authorization to purchase up to $1.5 billion of our common stock. As of JulyÂ 31, 2024, $194.3 million remained available for future repurchases under the Program. However, in connection with the pending Ansys Merger, we have suspended the Program until we are able to reduce our expected debt levels.Stock repurchase activities as well as the reissuance of treasury stock for employee stock-based compensation purposes are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023(1)(2)2024(3)2023(1)Â (inÂ thousands)Total shares repurchasedâ€”Â 751Â 74Â 2,382Â Total cost of the repurchased shares$â€”Â $300,000Â $45,000Â $860,724Â Reissuance of treasury stock409Â 625Â 1,634Â 2,132Â (1) Excluded the 41,682 shares and $45.0 million equity forward contract from the May 2023 Accelerated Stock Repurchase program (ASR) settled in August 2023.(2) Included the 105,792 shares and $45.0Â million equity forward contract from the February 2023 ASR settled in May 2023.(3) Included the 73,903 shares and $45.0 million equity forward contract from the August 2023 ASR settled in November 2023.25Note 16. Stock-Based CompensationThe compensation cost recognized in the condensed consolidated statements of income for our stock compensation arrangements is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Cost of products$14,645Â $12,787Â $44,824Â $38,149Â Cost of maintenance and service9,677Â 7,765Â 28,126Â 22,451Â Research and development expense89,279Â 72,784Â 269,087Â 211,664Â Sales and marketing expense30,251Â 23,697Â 91,811Â 68,094Â General and administrative expense20,502Â 14,463Â 58,702Â 44,096Â Stock-based compensation expense from continuing operations before taxes164,354Â 131,496Â 492,550Â 384,454Â Stock-based compensation expense from discontinued operations before taxes17,185Â 12,968Â 47,476Â 37,495Â Total stock-based compensation expense before taxes181,539Â 144,464Â 540,026Â 421,949Â Income tax benefit(29,972)(23,172)(89,158)(67,681)Stock-based compensation expense after taxes$151,567Â $121,292Â $450,868Â $354,268Â During the three and nine months ended JulyÂ 31, 2024 and 2023, we recognized stock-based compensation expense relating to restricted stock units (RSUs) granted to senior executives with certain market, performance and service conditions (market-based RSUs). The grant date fair value of the market-based RSUs and the assumptions used in the Monte Carlo simulation model to determine the grant date fair value during the periods were as follows:Â Nine Months EndedÂ Â July 31,Â 20242023Expected life (in years)2.89 years0.90 years - 2.70 years Risk-free interest rate4.41%4.36% - 4.63%Volatility34.03%35.84% - 42.86%Grant date fair value$600.29$357.29 - $408.55As of JulyÂ 31, 2024, we had $1.3 billion of total unrecognized stock-based compensation expense from continuing and discontinued operations relating to options, RSUs and restricted stock awards, which is expected to be recognized over a weighted-average period of 2.3 years. As of JulyÂ 31, 2024, we had $70.3 million of unrecognized stock-based compensation expense from continuing and discontinued operations relating to our Employee Stock Purchase Plan, which is expected to be recognized over a period of approximately 2.0 years.The intrinsic values of equity awards exercised from continuing and discontinued operations during the periods are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (in thousands)Intrinsic value of awards exercised$90,973Â $94,116Â $166,993Â $212,339Â Note 17. Net Income (Loss) Per ShareWe compute basic net income (loss) per share by dividing net income available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted net income (loss) per share reflects the dilution from potential common shares outstanding such as stock options and unvested RSUs and awards during the period using the treasury stock method.26The table below reconciles the weighted average common shares used to calculate basic net income (loss) per share with the weighted average common shares used to calculate diluted net income (loss) per share:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands, except per share amounts)Numerator:Net income from continuing operations attributed to Synopsys$425,868Â $335,708Â $1,162,429Â $880,994Â Net income (loss) from discontinued operations attributed to Synopsys(17,813)544Â (13,155)(296)Net income attributed to Synopsys$408,055Â $336,252Â $1,149,274Â $880,698Â Denominator:Weighted average common shares for basic net income per share153,417Â 152,023Â 152,885Â 152,204Â Dilutive effect of common share equivalents from equity-based compensation2,714Â 2,924Â 2,978Â 2,915Â Weighted average common shares for diluted net income per share156,131Â 154,947Â 155,863Â 155,119Â Net income (loss) per share attributed to Synopsys - basic:Continuing operations$2.78Â $2.21Â $7.60Â $5.79Â Discontinued operations(0.12)â€”Â (0.08)â€”Â Basic net income per share$2.66Â $2.21Â $7.52Â $5.79Â Net income (loss) per share attributed to Synopsys - diluted:Continuing operations$2.73Â $2.17Â $7.46Â $5.68Â Discontinued operations(0.12)â€”Â (0.09)â€”Â Diluted net income per share$2.61Â $2.17Â $7.37Â $5.68Â Anti-dilutive employee stock-based awards excluded211Â 289Â 203Â 454Â Note 18. Segment DisclosureSegment reporting is based upon the â€œmanagement approach,â€ i.e.,Â how management organizes our operating segments for which separate financial information is (1)Â available and (2)Â evaluated regularly by the CODM in deciding how to allocate resources and in assessing performance. Our CODM is our CEO.We have two reportable segments: (1) Design Automation, which includes our advanced silicon design, verification products and services, system integration products and services, digital, custom and field programmable gate array (FPGA) IC design software, verification software and hardware products, manufacturing software products and other; and (2) Design IP, which includes our Design IP products.The financial information provided to and used by the CODM to assist in making operational decisions, allocating resources, and assessing performance includes consolidated financial information as well as revenue, adjusted operating income, and adjusted operating margin information for the Design Automation and Design IP segments, accompanied by disaggregated information relating to revenue by geographic region. In accordance with applicable accounting guidance, the results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements.27Information by reportable segment is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total Segments:Revenue$1,525,749Â $1,354,390Â $4,491,450Â $3,850,631Â Adjusted operating

income610,589Â 492,791Â 1,758,823Â 1,380,537Â Adjusted operating margin40Â %36Â %39Â %36Â %Design Automation:Revenue$1,062,666Â $1,004,156Â $3,102,938Â $2,821,570Â Adjusted operating income440,864Â 410,023Â 1,218,574Â 1,102,837Â Adjusted operating margin41Â %41Â %39Â %39Â %Design IP:Revenue$463,083Â $350,234Â $1,388,512Â $1,029,061Â Adjusted operating income169,725Â 82,768Â 540,249Â 277,700Â Adjusted operating margin37Â %24Â %39Â %27Â %Certain operating expenses are not allocated to the segments and are managed at a consolidated level. The unallocated expenses managed at a consolidated level, including amortization of acquired intangible assets, stock-based compensation, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture related items, are presented in the table below to provide a reconciliation of the total adjusted operating income from segments to our consolidated operating income from continuing operations:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total segment adjusted operating income$610,589Â $492,791Â $1,758,823Â $1,380,537Â Reconciling items:Amortization of acquired intangible assets(18,572)(13,008)(53,317)(38,632)Stock-based compensation expense(164,354)(131,496)(492,550)(384,454)Deferred compensation plan(25,780)(21,492)(76,276)(44,123)Restructuring chargesâ€”Â (21,879)â€”Â (54,439)Acquisition/divestiture related items(41,672)(4,840)(91,771)(9,815)Total operating income$360,211Â $300,076Â $1,044,909Â $849,074Â The CODM does not use total assets by segment to evaluate segment performance or allocate resources. As a result, total assets by segment are not disclosed.In allocating revenue to particular geographic areas, the CODMÂ considers where individual â€œseatsâ€ or licenses to our products are located. Revenue is defined as revenue from external customers. Revenue related to operations in the United States and other geographic areas are:Â 28Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Revenue:United States$660,479Â $561,500Â $2,015,066Â $1,733,107Â Europe144,631Â 125,789Â 429,377Â 377,087Â China266,699Â 292,079Â 729,583Â 673,575Â Korea194,817Â 161,848Â 569,538Â 459,384Â revenue data for multi-regional, multi-product transactions reflect internal allocations and are therefore subject to certain assumptions and to our allocation methodology.Note 19. Interest and Other Income (Expense), NetThe following table presents the components of interest and other income (expense), net:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Interest income$15,717Â $11,877Â $40,508Â $26,875Â Interest expense(11,752)(342)(19,409)(918)Gains (losses) on assets related to deferred compensation plan25,780Â 21,492Â 76,276Â 44,123Â Foreign currency exchange gains (losses)329Â 26Â 3,438Â 352Â Gain on sale of strategic investmentsâ€”Â â€”Â 55,077Â â€”Â Other, net1,710Â (7,569)(9,820)(17,801)Total$31,784Â $25,484Â $146,070Â $52,631Â Note 20. Income TaxesEffective Tax RateWe estimate our annual effective tax rate at the end of each fiscal quarter. The effective tax rate takes into account our estimations of annual pre-tax income, the geographic mix of pre-tax income and interpretations of tax laws and possible outcomes of audits.The following table presents the provision for income taxes and the effective tax rates:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Income before income taxes$391,995Â $325,560Â $1,190,979Â $901,705Â Provision (benefit) for income taxes$(30,712)$(6,951)$37,634Â $29,779Â Effective tax rate(7.8)%(2.1)%3.2Â %3.3Â %Our effective tax rate for the nine months ended JulyÂ 31, 2024, is lower than the statutory federal corporate tax rate of 21% primarily due to U.S. federal research tax credits, foreign-derived intangible income deduction, excess tax benefits from stock-based compensation, U.S. foreign tax credits, and tax benefits from a valuation allowance release against California research credits, partially offset by state taxes and the effect of non-deductible stock-based compensation.29Our effective tax rate decreased in the three months ended JulyÂ 31, 2024, as compared to the same period in fiscal 2023, primarily due to the tax benefits recorded as a result of the valuation allowance release. Our effective tax rate for the nine months ended JulyÂ 31, 2024 is consistent with the same period in fiscal 2023.The timing of the resolution of income tax examinations, and the amounts and timing of various tax payments that are part of the settlement process, are highly uncertain. Variations in such amounts and/or timing could cause large fluctuations in the balance sheet classification of current and non-current assets and liabilities. We believe that in the coming 12 months, it is reasonably possible that either certain audits and ongoing tax litigation will conclude or the statute of limitations on certain state and foreign income and withholding taxes will expire, or both. Given the uncertainty as to ultimate settlement terms, the timing of payment and the impact of such settlements on other uncertain tax positions, the range of the estimated potential decrease in underlying unrecognized tax benefits is between $0 and $7.0 million.Non-U.S. ExaminationsHungarian Tax AuthorityIn 2017, the Hungarian Tax Authority (the HTA) assessed withholding taxes of approximately $25.0 million and interest and penalties of $11.0 million against our Hungary subsidiary (Synopsys Hungary).Â Synopsys Hungary contested the assessment with the Hungarian Administrative Court (Administrative Court). In fiscal 2018, Synopsys Hungary paid the assessment. Following years of litigation, the Administrative Court issued its written decision in favor of Synopsys Hungary on May 17, 2023, and the HTA subsequently refunded Synopsys Hungary the tax, penalty and interest paid in fiscal 2018, as well as additional interest totaling $39.1Â million (including foreign currency effects). During the third quarter of fiscal 2023, we released our unrecognized tax benefit and offsetting U.S. foreign tax credits, resulting in a net benefit of $23.8Â million.We are also under examination by the tax authorities in certain other jurisdictions. No material assessments have been proposed in these examinations. Legislative DevelopmentsEffective our fiscal 2024, we are subject to the new 15% corporate alternative minimum tax (CAMT) enacted as part of the Inflation Reduction Act of 2022. We do not expect any impact of CAMT in fiscal 2024.On January 31, 2024, the House of Representatives has passed the Tax Relief for American Families and Workers Act of 2024 (H.R. 7024) which would defer the requirement of capitalizing research and development, based in the United States, until tax years starting after December 31, 2025. The proposed legislation would have a beneficial impact on our cash tax liabilities, if enacted. The Senate rejected the bill in August 2024 and its future remains uncertain.On June 27, 2024, California enacted SB-167, which suspends the use of California net operating loss and limits the use of California research tax credits to $5 million each year for our fiscal 2025-2027. On June 29, 2024, California enacted SB-175, which provides a refund mechanism for the incremental tax that was paid as a result of SB-167. We are evaluating the impact of the law change.Note 21. ContingenciesLegal ProceedingsWe are subject to routine legal proceedings, as well as demands, claims and threatened litigation that arise in the normal course of our business. The ultimate outcome of any litigation is often uncertain and unfavorable outcomes could have a negative impact on our results of operations and financial condition. We regularly review the status of each significant matter and assess our potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount is estimable, we accrue a liability for the estimated loss. Legal proceedings are inherently uncertain and, as circumstances change, it is possible that the amount of any accrued liability may increase, decrease or be eliminated. We have determined that, except as set forth below, no disclosure of estimated loss is required for a claim against us because: (1)Â there is not a reasonable possibility that a loss exceeding amounts already recognized (if any) may be incurred with respect to such claim; (2)Â a reasonably possible loss or range of loss cannot be estimated; or (3)Â such estimate is immaterial.30Legal SettlementIn March 2017, Siemens PLM Software (now Siemens Industry Software Inc. or SISW) acquired Mentor Graphics Corporation (Mentor). On June 29, 2018, we, SISW and Mentor settled all outstanding patent litigation between us and Mentor for a $65.0Â million payment made from us to Mentor. As a result of the settlement, the litigation with Mentor was dismissed and the injunction entered in connection with that litigation was vacated. The settlement included mutual seven-year patent cross-licenses between us and SISW, and between us and Mentor. We and Mentor also amended an existing interoperability agreement to collaborate on a wide range of EDA products for the benefit of our mutual customers (the interoperability amendment). The interoperability amendment includes a one-time termination charge between $0.0 and $25.0Â million, payable to SISW under certain conditions. Mentor no longer exists as an independent entity and is succeeded by SISW.In June 2024, the parties extended the existing patent cross-license to December 31, 2031, and entered into a new cross-license of patents related to certain computer-aided engineering technology. The new cross-license is conditioned on the close of the Ansys Merger and expires on December 31, 2031. The interoperability amendment expires by its terms on June 29, 2025.Tax MattersWe undergo examination from time to time by U.S. and foreign authorities for non-income based taxes, such as sales, use and value-added taxes, and are currently under examination by tax authorities in certain jurisdictions. If the potential loss from such examinations is considered probable and the amount or the range of loss could be estimated, we would accrue a liability for the estimated expense.In addition to the foregoing, we are, from time to time, party to various other claims and legal proceedings in the ordinary course of our business, including with tax and other governmental authorities. For a description of certain of these other matters, see Note 20. Income Taxes of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report on Form 10-Q.31ItemÂ 2.Managementâ€™s Discussion and Analysis of Financial Condition and Results of OperationsThis Quarterly Report on Form 10-Q (this Quarterly Report) includes forward-looking statements, which involve risks, uncertainties and other factors that could cause Synopsys, Inc.'s (Synopsys, we, our or us) actual results, time frames or achievements to differ materially from those expressed or implied in such forward-looking statements. Readers are urged to carefully review and consider the various disclosures regarding these risks and uncertainties made in this Quarterly Report, including those identified below in Part II, Item 1A, Risk Factors, and in other documents we file from time to time with the Securities and Exchange Commission (SEC). Forward-looking statements include any statements that are not statements of historical fact and include, but are not limited to, statements concerning strategies related to our products, technology and services; business and market outlook, opportunities, strategies and technological trends, such as artificial intelligence (AI); planned acquisitions and their expected impact, such as our pending acquisition of ANSYS, Inc. (Ansys), including, among other things, expectations regarding the financing of pending acquisitions; planned dispositions and their expected impact, such as the previously announced divestiture of our Software Integrity business (the Software Integrity Divestiture); the potential impact of the uncertain macroeconomic environment on our financial results, including, but not limited to, the effects of sustained global inflationary pressures and interest rates, potential economic slowdowns or recessions, supply chain disruptions, geopolitical pressures, including, among others, the unknown impact of current and future U.S. and Chinese trade regulations and regional or global military conflicts, and fluctuations in foreign exchange rates, and associated global economic conditions; the expected impact of U.S. and foreign government actions and regulatory changes, including export control restrictions, on our financial results; customer demand and market expansion; our planned product releases and capabilities; industry growth rates; the expected realization of our contracted but unsatisfied or partially unsatisfied performance obligations (backlog); software trends; planned stock repurchases; our expected tax rate; and the impact and result of pending legal, administrative and tax proceedings. Forward-looking statements may be identified by words including, but not limited to, â€œmay,â€ â€œwill,â€ â€œcould,â€ â€œwould,â€ â€œcan,â€ â€œshould,â€ â€œanticipate,â€ â€œexpect,â€ â€œintend,â€ â€œbelieve,â€ â€œestimate,â€ â€œproject,â€ â€œcontinue,â€ â€œforecast,â€ "likely," "potential," "seek," or the negatives of such terms and similar expressions. The information included herein represents our estimates and assumptions as of the date of this filing. Unless required by law, we undertake no obligation to update publicly any forward-looking statements, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future. All subsequent written or oral forward-looking statements attributable to Synopsys or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements.The following summary and overview of our financial condition and results of operations are qualified in their entirety by the more complete discussions and should be read together with our condensed consolidated financial statements and the related notes thereto contained in PartÂ I, ItemÂ 1 of this Quarterly Report, the risk factors set forth in Part II, Item 1A of this Quarterly Report, and with our audited consolidated financial statements and the related notes thereto contained in our Annual Report on FormÂ 10-K for the fiscal year ended OctoberÂ 31, 2023, as filed with the SEC on DecemberÂ 12, 2023 (our Annual Report). OverviewUnless otherwise noted, this Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations relates solely to our continuing operations and does not include the operations of our Software Integrity business. See â€œPending Software Integrity Divestitureâ€ below and Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements for additional information about the Software Integrity Divestiture.Financial Performance SummaryFor the third quarter of fiscal 2024, our results reflect continued, strong execution and the resiliency of our business. We have seen our customer set expand as more companies in more industries define and optimize system performance at the silicon level. We also continue to see our total cost of revenue and operating expenses increase as we invest in our workforce and further grow organically and through acquisitions. The following table sets forth some of our key quarterly unaudited financial information: Three Months Ended July 31,Nine Months Ended July 31,20242023202420232(in millions, except per share amounts)Revenue$1,525.7Â $1,354.4Â $4,491.5Â $3,850.6Â Cost of revenue$290.7Â $260.4Â $870.3Â $744.7Â 32Operating expenses$874.9Â $793.9Â $2,576.3Â $2,256.9Â Operating income$360.2Â $300.1Â $1,044.9Â $849.1Â Net income from continuing operations attributed to Synopsys$425.9Â $335.7Â $1,162.4Â $881.0Â Net income (loss) from discontinued operations attributed to Synopsys(17.8)0.5Â (13.2)(0.3)Diluted net income (loss) per share attributed to Synopsys:Continuing operations$2.73Â $2.17Â $7.46Â $5.68Â Discontinued operations(0.12)â€”Â (0.09)â€”Â Three months ended July 31, 2024 compared to the same period of fiscal 2023 financial performance summaryâ€¢Revenues were $1.5 billion, an increase of $171.3Â million or 13%, primarily due to revenue growth across a majority of products and geographies.â€¢Total cost of revenue and operating expenses was $1.2Â billion, an increase of $111.3 million or 11%, primarily due to an increase of $49.6 million in employee-related costs resulting from headcount increases through organic growth and acquisitions.â€¢Operating income was $360.2 million, an increase of $60.1 million or 20%.Nine months ended July 31, 2024 compared to the same period of fiscal 2023 financial performance summaryâ€¢Revenues were $4.5 billion, an increase of $640.9 million or 17%, primarily due to revenue growth across all products and geographies and the impact of the extra week in the first quarter of fiscal 2024.1 â€¢Total cost of revenue and operating expenses was $3.4 billion, an increase of $445.0 million or 15%, primarily due to an increase of $227.6 million in employee-related costs resulting from headcount increases through organic growth and acquisitions, and the impact of the extra week in the first quarter of fiscal 2024.â€¢Operating income was $1.0 billion, an increase of $195.8 million or 23%.Business SummarySynopsys delivers trusted and comprehensive silicon to systems design solutions, from electronic design automation (EDA), including system verification and validation solutions, to silicon intellectual property (IP). We partner closely with semiconductor and systems customers across a wide range of industries to maximize their research and development capability and productivity. Synopsys is catalyzing the era of pervasive intelligence to power innovation today that ignites the ingenuity of tomorrow. For more information about our business segments and product groups, see Part I, Item 1, Business in our Annual Report.We have consistently grown our revenue since 2005, despite periods of global economic uncertainty. We achieved these results because of our solid execution, leading technologies and strong customer relationships, and because we generally recognize our revenue for software licenses over the arrangement period, which typically approximates three years. See Note 2. Summary of Significant Accounting Policies and Basis of Presentation of the Notes to Consolidated Financial Statements in our Annual Report for a discussion on our revenue recognition policy. The revenue we recognize in a particular period generally results from selling efforts in prior periods rather than the current period. As a result, decreases as well as increases in customer spending do not immediately affect our revenues in a significant way. Our growth strategy is based on maintaining and building on our leadership in our Design Automation products, expanding and proliferating our Design IP offerings and continuing to expand our product portfolio and our total addressable market. Our revenue growth from period to period is expected to vary based on the mix of our time-based and upfront products. Based on our leading technologies, customer relationships, business model, diligent expense management, and acquisition strategy, we believe that we will continue to execute our strategies successfully.1 Refer to "Fiscal Year and Fiscal Quarter End" in Item 2 of this Quarterly Report, Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations for the extra week discussion. 33Pending Acquisition of AnsysOn January 15, 2024, we entered into an Agreement and Plan of Merger (the Merger Agreement) to acquire all of the outstanding shares of Ansys, a provider of broad engineering simulation and analysis software and services, in a cash-and-stock transaction (the Ansys Merger) that values Ansys at approximately $35.0 billion, based on the closing price of Synopsys common stock on December 21, 2023. Under the terms of the Merger Agreement, at the effective time of the Ansys Merger (the Effective Time), each share of Ansys common stock issued and outstanding immediately prior to the Effective Time (with certain exceptions set forth in the Merger Agreement) will be converted into the right to receive 0.3450 (the Exchange Ratio) of a share of Synopsys common stock and $197.00 in cash, without interest. The Exchange Ratio is expected to result in Ansys equityholders and Synopsys equityholders owning approximately 16.5% and 83.5%, respectively, of the combined company on a pro forma basis following the Effective Time. The Merger Agreement also provides for Synopsysâ€™ assumption of certain outstanding Ansys options and other unvested Ansys equity awards held by continuing Ansys employees. If the stock consideration to be issued by Synopsys in connection with the Ansys Merger exceeds 19.9999% of the shares of Synopsys common stock issued and outstanding immediately prior to the Effective Time, the Exchange Ratio will be reduced to the minimum extent necessary to ensure that the aggregate number of shares of Synopsys common stock to be issued in connection with the Ansys Merger does not exceed such threshold, and the cash consideration will be correspondingly increased to offset such adjustment.Pursuant to the Merger Agreement, at the Effective Time, two members of the board of directors of Ansys selected by mutual agreement of Synopsys and Ansys will become members of the Board of Directors of Synopsys. If the closing occurs less than six months prior to the next annual meeting of

Synopsysâ€™ stockholders, Synopsys will nominate such directors for election at such meeting. On March 19, 2024, Synopsys and Ansys mutually agreed to designate Dr. Ajei Gopal, the current President and Chief Executive Officer of Ansys, to become a member of the Synopsys Board of Directors at the Effective Time, subject to the completion of Synopsysâ€™ director nomination process and satisfaction of all applicable eligibility requirements established by Synopsysâ€™ Corporate Governance and Nominating Committee. Ansys and Synopsys have not yet determined or agreed on the remaining member of the Ansys board of directors to be appointed to the Synopsys Board of Directors. The Ansys Merger was approved by the holders of a majority of the outstanding shares of Ansys common stock on May 22, 2024 and is anticipated to close in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including the expiration or termination of the waiting period under the Hart-Scott-Rodino Antitrust Improvement Act of 1976, as amended (the HSR Act), the clearance of the Ansys Merger under certain other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. We and Ansys each have termination rights under the Merger Agreement. A fee of $1.5 billion may be payable by us to Ansys, or a fee of $950.0 million may be payable by Ansys to us, upon termination of the Merger Agreement under specified circumstances, each as more fully described in the Merger Agreement. The receipt of financing by us is not a condition to complete the Ansys Merger.In connection with the execution of the Merger Agreement, we entered into a commitment letter on January 15, 2024 (the Bridge Commitment Letter) with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, a senior unsecured bridge facility (the Bridge Commitment). The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7 billion. On February 13, 2024, we entered into a term loan facility credit agreement (the Term Loan Agreement), which provides us with the ability to borrow up to $4.3 billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on the Bridge Commitment and the Term Loan Agreement.For more on risks related to the Ansys Merger, see Part II, Item 1A, Risk Factors, â€œRisks Related to the Ansys Merger" of this Quarterly Report.Impact of the Current Macroeconomic and Geopolitical EnvironmentUncertainty in the macroeconomic environment, including the effects of, among other things, sustained global inflationary pressures and interest rates, potential economic slowdowns or recessions, supply chain disruptions, geopolitical pressures, fluctuations in foreign exchange rates, and associated global economic conditions, have resulted in volatility in credit, equity and foreign currency markets. We expect growth across our geographies in 34fiscal 2024; however, we are expecting a challenging near-term growth environment in China due to macroeconomic factors as well as, to a lesser degree, entity list and trade restrictions as further discussed below and in Part II, Item 1A, Risk Factors of this Quarterly Report.The current uncertain macroeconomic environment could lead some of our customers to postpone their decision-making, decrease their spending and/or delay their payments to us. For more on risks related to the current macroeconomic and geopolitical environment, see Part II, Item 1A, Risk Factors, â€œUncertainty in the macroeconomic environment, and its potential impact on the semiconductor and electronics industries, may negatively affect our business, operating results and financial conditionâ€ of this Quarterly Report. We are also actively monitoring geopolitical pressures around the world, including, among others, changes in China-Taiwan relations, the conflicts in Ukraine and the Middle East and other regional or global military conflicts. Any significant disruption caused by these or other geopolitical pressures or conflicts could materially affect our employees, business, operating results, financial condition or customers in those regions of the world. For example, Synopsys has employees, operations, customers and strategic partners in the Middle East and in Armenia, which are each impacted by geopolitical conflicts. While we are actively monitoring these conflicts, at this time, these geopolitical conflicts have not had a material impact on our business, operating results or financial condition.While our time-based business model provides stability to our business, operating results and overall financial position, the broader implications of these macroeconomic or geopolitical events, particularly in the long term, remain uncertain. Further, the negative impact of these events or disruptions may be deferred due to our business model.See Part II, Item 1A, Risk Factors of this Quarterly Report for further discussion of the impact of global economic and geopolitical uncertainty on our business, operations and financial condition.Developments in Export Control RegulationsOn October 7, 2022, the Bureau of Industry and Security (BIS) of the U.S. Department of Commerce published changes to U.S. export control regulations (U.S. Export Regulations), including new restrictions on Chinese entities' ability to obtain advanced computing chips, develop and maintain supercomputers, and manufacture advanced semiconductors. Further, on October 14, 2022, a new rule went into effect imposing U.S. export controls on additional technologies, including electronic computer-aided design software specially designed for the development of ICs with Gate-All-Around Field-Effect Transistor structures. On October 17, 2023, the Department of Commerce, Bureau of Industry and Security, published clarifications of and other adjustments to the regulations promulgated on October 7, 2022, pertaining, among other things, to Chinaâ€™s access to certain semiconductor and advanced computing technology. Based on our current understanding, we believe these regulations will not have a material impact on our business. We anticipate additional changes to U.S. Export Regulations in the future, but we cannot forecast the scope or timing of such changes. We will continue to monitor such developments, including potential additional trade restrictions, and other regulatory or policy changes by the U.S. and foreign governments.For more on risks related to government export and import restrictions such as the U.S. governmentâ€™s Entity List and other U.S. Export Regulations, see Part I, Item 1A, Risk Factors, â€œWe are subject to governmental export and import requirements that could subject us to liability and restrict our ability to sell our products and services, which could impair our ability to compete in international markets.â€Pending Software Integrity DivestitureOn May 5, 2024, we entered into an Equity Purchase Agreement (the Purchase Agreement), by and between Synopsys, Inc. and Sapphire Software Buyer, Inc. (Buyer), an entity controlled by funds affiliated with Clearlake Capital Group, L.P. and Francisco Partners (together, the Sponsors). Pursuant to the Purchase Agreement, and subject to the satisfaction or waiver of customary closing conditions specified therein, we will sell our Software Integrity business to Buyer for a purchase price of up to $2.1 billion in cash, comprised of: (i) $1.5 billion, payable at closing; (ii) $125 million, payable in equal installments over five fiscal quarters beginning on the first business day after the 75th day of our first full fiscal quarter following the closing, subject to acceleration at our option prior to the closing of the Ansys Merger; and (iii) up to $475 million (the Conditional Transaction Consideration), payable upon the Sponsors achieving a specified rate of return in connection with one or more potential liquidity transactions. The Software Integrity Divestiture is currently expected to close in the second half of 2024, subject to customary closing conditions including the receipt of required regulatory approvals. The Software Integrity business met the criteria to be disclosed as discontinued operations in the second quarter of fiscal 2024. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements for additional information on discontinued 35operations.Business SegmentsDesign Automation. This segment includes our advanced silicon design, verification products and services and system integration products. This segment also includes digital, custom and field programmable gate array (FPGA) integrated circuit (IC) design software, verification software and hardware products, system integration products and services, and manufacturing software products. Designers use these products to automate the highly complex IC design process and to reduce defects that could lead to expensive design or manufacturing re-spins or suboptimal end products. Design IP. This segment includes our Design IP products that serve companies primarily in the semiconductor and electronics industries. We are a leading provider of high-quality, silicon-proven IP solutions for system-on-chips (SoCs). This includes IP that has been optimized to address specific application requirements for the mobile, automotive, digital home, internet of things and cloud computing markets, enabling designers to quickly develop SoCs in these areas.Fiscal Year and Fiscal Quarter EndOur fiscal year ends on the Saturday nearest to OctoberÂ 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023.Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on AugustÂ 3, 2024 and JulyÂ 29, 2023, respectively. The extra week in the first quarter of fiscal 2024 resulted in approximately $70.5Â million of additional revenue, and approximately $61.0Ã million of additional expenses, including approximately $11.0Â million in stock-based compensation costs. For presentation purposes, this Form 10-Q refers to the closest calendar month end.Critical Accounting EstimatesOur condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). In preparing these financial statements, we make assumptions, judgments and estimates that can affect the reported amounts of assets, liabilities, revenues and expenses, and net income. On an ongoing basis, we evaluate our estimates based on historical experience and various other assumptions we believe are reasonable under the circumstances. Our actual results may differ from these estimates. See NoteÂ 2. Summary of Significant Accounting Principles and Basis of Presentation of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for more information on our significant accounting policies.The accounting policies that most frequently require us to make assumptions, judgments and estimates, and therefore are critical to understanding our results of operations, are:â€¢Revenue recognition; andâ€¢Business combinations.See Critical Accounting Estimates section of Part II, Item 7, Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report for more information.Results of OperationsRevenueOur revenues are generated from two business segments: the Design Automation segment and the Design IP segment. See Note 18. Segment Disclosure of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for more information about our reportable segments and revenue by geographic regions. Further disaggregation of the revenues into various products and services within these two segments is summarized as follows:Design Automation Segment36â€¢EDA solutions include digital, custom and FPGA IC design software, verification software and hardware products, system integration products and services, and obligations to provide unspecified updates and support services. EDA products and services are typically sold through Technology Subscription License (TSL) arrangements that grant customers the right to access and use all of the licensed products at the outset of an arrangement; software updates are generally made available throughout the entire term of the arrangement. The duration of our TSL contracts is generally three years, though it may vary for specific arrangements. We have concluded that the software licenses in TSL contracts are not distinct from the obligation to provide unspecified software updates to the licensed software throughout the license term, because the multiple software licenses and support represent inputs to a single, combined offering, and timely, relevant software updates are integral to maintaining the utility of the software licenses. We recognize revenue for the combined performance obligation under TSL contracts ratably over the term of the license. â€¢In the case of arrangements involving the sale of hardware products, we generally have two performance obligations. The first performance obligation is to transfer the hardware product, which includes software integral to the functionality of the hardware product. The second performance obligation is to provide maintenance on the hardware and its embedded software, which includes rights to technical support, hardware repairs and software updates that are all provided over the same term and have the same time-based pattern of transfer to the customer. The portion of the transaction price allocated to the hardware product is generally recognized as revenue at the time of shipment because the customer obtains control of the product at that point in time. We have concluded that control generally transfers at that point in time because the customer has the ability to direct the use of the asset and an obligation to pay for the hardware. The portion of the transaction price allocated to the maintenance obligation is recognized as revenue ratably over the maintenance term. â€¢Revenue from Professional Service contracts is recognized over time, generally using costs incurred or hours expended to measure progress. We have a history of reasonably estimating project status and the costs necessary to complete projects. A number of internal and external factors can affect these estimates, including labor rates, utilization and efficiency variances and specification and testing requirement changes.Design IP Segmentâ€¢Design IP includes our Synopsys IP portfolio. These arrangements generally have two performance obligations which consist of transferring of the licensed IP and providing related support, which includes rights to technical support and software updates that are provided over the support term and are transferred to the customer over time. Revenue allocated to the IP licenses is recognized at a point in time upon the later of the delivery date or the beginning of the license period, and revenue allocated to support is recognized over the support term. Royalties are recognized as revenue in the quarter in which the applicable customer sells its products that incorporate our IP. Payments for IP contracts are generally received upon delivery of the IP. Revenue related to the customization of certain IP is recognized over time, generally using costs incurred or hours expended to measure progress.Our customer arrangements can involve multiple products and various license rights, and our customers negotiate with us over many aspects of these arrangements. For example, they generally request a broader portfolio of solutions, support and services and seek more favorable terms such as expanded license usage, future purchase rights and other unique rights at an overall lower total cost. No single factor typically drives our customersâ€™ buying decisions, and we compete on all fronts to serve customers in highly competitive markets. Customers generally negotiate the total value of the arrangement rather than just unit pricing or volumes.37Total RevenueÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months endedDesign Automation$1,062.6Â $1,004.2Â $58.4Â 6Â %Design IP463.1Â 350.2Â 112.9Â 32Â %Total$1,525.7Â $1,354.4Â $171.3Â 13Â %Nine months endedDesign Automation$3,103.0Â $2,821.5Â $281.5Â 10Â %Design IP1,388.5Â 1,029.1Â 359.4Â 35Â %Total$4,491.5Â $3,850.6Â $640.9Â 17Â %Our revenues are subject to fluctuations, primarily due to customer requirements including the timing and value of contract renewals. For example, we experience fluctuations in our revenues due to factors such as the timing of IP product sales, Flexible Spending Account (FSA) drawdowns, royalties, and hardware products sales. As revenues from IP products sales and hardware products sales are recognized upfront, customer demand and timing requirements for such IP products and hardware products could result in increased variability of our total revenues.Contracted but unsatisfied or partially unsatisfied performance obligations (backlog) as of JulyÂ 31, 2024 were $7.9 billion, which includes $1.2 billion in non-cancellable FSA commitments from customers where actual product selection and quantities of specific products or services are to be determined by customers at a later date. We have elected to exclude future sales-based royalty payments from the remaining performance obligations. Approximately 40% of the backlog as of JulyÂ 31, 2024, excluding non-cancellable FSA, is expected to be recognized as revenue over the next 12 months, with the remainder recognized thereafter. The majority of the remaining backlog is expected to be recognized in the following three years.The amount and composition of unsatisfied performance obligations will fluctuate period to period. We do not believe the amount of unsatisfied performance obligations is indicative of future sales or revenue, or that such obligations at the end of any given period correlates with actual sales performance of a particular geography or particular products and services. For more information regarding our revenue during the three and nine months ended JulyÂ 31, 2024, including our contract balances as of such date, see Note 6. Revenue of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report.The increase in total revenues for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was due principally to revenue growth across a majority of products and geographies. The increase for the nine-month period also included the impact of the extra week in the first quarter of fiscal 2024 of approximately $70.5Â million.For a discussion of revenue by geographic areas, see Note 18. Segment Disclosure of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report.Time-Based Products RevenueÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended$803.1Â $827.4Â $(24.3)(3)%Percentage of total revenue53Â %61Â %Nine months ended$2,389.9Â $2,235.5Â $154.4Â 7Â %Percentage of total revenue53Â %58Â %The decrease in time-based products revenue for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily attributable to a decrease in TSL license revenue from previously unfulfilled contracts that have expired and are no longer subject to an implied promise to provide future services.38The increase in time-based products revenue for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily attributable to an increase in TSL license revenue from arrangements booked in prior periods and the impact of the extra week in the first quarter of fiscal 2024.Upfront Products RevenueÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended$442.5Â $292.7Â $149.8Â 51Â %Percentage of total revenue29Â %22Â %Nine months ended$1,281.3Â $958.6Â $322.7Â 34Â %Percentage of total revenue29Â %25Â %Changes in upfront products revenue are generally attributable to normal fluctuations in the extent and timing of customer requirements, which can drive the amount of upfront orders and revenue in any particular period.The increase in upfront products revenue for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was primarily due to an increase in the sale of IP and hardware products, driven by higher demand from customers.Upfront products revenue as a percentage of total revenue will likely fluctuate based on the timing of IP and hardware product sales. Such fluctuations will continue to be impacted by the timing of shipments and FSA drawdowns due to customer requirements.Maintenance and Service RevenueÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months endedMaintenance revenue$105.8Â $111.1Â $(5.3)(5)%Professional service and other revenue174.3Â 123.2Â 51.1Â 41Â %Total$280.1Â $234.3Â $45.8Â 20Â %Percentage of total revenue18Â %17Â %Nine months endedMaintenance revenue$318.0Â $271.3Â $46.7Â 17Â %Professional service and other revenue502.2Â 385.2Â 117.0Â 30Â %Total$820.2Â $656.5Â $163.7Â 25Â %Percentage of total

revenue18Â %17Â %The decrease in maintenance revenue for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to a decrease in the volume of arrangements that include maintenance. The increase in maintenance revenue for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to an increase in the volume of arrangements that include maintenance.The increase in professional service and other revenue for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was primarily due to the timing of IP customization projects.39Cost of RevenueÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months endedCost of products revenue$179.5Â $174.5Â $5.0Â 3Â %Cost of maintenance and service revenue96.6Â 75.0Â 21.6Â 29Â %Amortization of acquired intangible assets14.5Â 11.0Â 3.5Â 32Â %Total$290.6Â $260.5Â $30.1Â 12Â %Percentage of total revenue19Â %19Â %Nine months endedCost of products revenue$553.8Â $500.1Â $53.7Â 11Â %Cost of maintenance and service revenue275.3Â 211.8Â 63.5Â 30Â %Amortization of acquired intangible assets41.2Â 32.7Â 8.5Â 26Â %Total$870.3Â $744.6Â $125.7Â 17Â %Percentage of total revenue19Â %19Â %We divide cost of revenue into three categories: cost of products revenue, cost of maintenance and service revenue, and amortization of acquired intangible assets.Cost of products revenue. Cost of products revenue includes costs related to products sold and software licensed, hardware-related costs including inventory provisions, allocated operating costs related to product support and distribution, royalties paid to third-party vendors, and the amortization of capitalized software development costs.Cost of maintenance and service revenue. Cost of maintenance and service revenue includes costs to deliver our maintenance services, such as hotline and on-site support, production services and documentation of maintenance updates.Amortization of acquired intangible assets. Amortization of acquired intangible assets, included in cost of revenue, consists of the amortization of core/developed technology and certain contract rights intangible assets related to acquisitions.The increase in cost of revenue for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $16.1 million in costs to fulfill IP consulting arrangements, $7.2 million in employee-related costs as a result of headcount increases from hiring, $3.9 million in hardware-related costs including inventory provisions, and $3.5 million in amortization of acquired technology-related intangible assets.The increase in cost of revenue for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $45.1 million in costs to fulfill IP consulting arrangements, $34.6 million in hardware-related costs including inventory provisions, $30.0 million in employee-related costs as a result of headcount increases from hiring, $8.5 million in amortization of acquired technology-related intangible assets, and $2.1 million in depreciation and maintenance expense.40Operating ExpensesResearch and DevelopmentÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended$508.9Â $484.5Â $24.4Â 5Â %Percentage of total revenue33Â %36Â %Nine months ended$1,527.5Â $1,384.1Â $143.4Â 10Â %Percentage of total revenue34Â %36Â %The increase in research and development expenses for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $16.3 million in employee-related costs as a result of headcount increases as we continue to expand and enhance our product portfolio, and $2.5 million in the change in the fair value of our executive deferred compensation plan assets.The increase in research and development expenses for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $102.2 million in employee-related costs as a result of headcount increases as we continue to expand and enhance our product portfolio, $15.9 million in the change in the fair value of our executive deferred compensation plan assets, $9.1 million in consultant and contractor costs, and $6.6 million in facility costs.Sales and MarketingÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended$211.5Â $185.8Â $25.7Â 14Â %Percentage of total revenue14Â %14Â %Nine months ended$640.1Â $538.0Â $102.1Â 19Â %Percentage of total revenue14Â %14Â %The increase in sales and marketing expenses for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $16.6 million in employee-related costs due to headcount increases, and $2.2 million in the change in the fair value of our executive deferred compensation plan assets.The increase in sales and marketing expenses for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $68.3 million in employee-related costs due to headcount increases, $14.1 million in the change in the fair value of our executive deferred compensation plan assets, and $4.4 million in travel and marketing costs due to an increased number of in-person meetings and events.General and AdministrativeÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended$150.4Â $99.8Â $50.6Â 51Â %Percentage of total revenue10Â %7Â %Nine months ended$396.5Â $274.4Â $122.1Â 44Â %Percentage of total revenue9Â %7Â %The increase in general and administrative expenses for the three months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $39.2 million in legal, consulting and other professional fees mainly in connection with the Ansys Merger, $9.5 million in employee-related costs due to headcount increases from hiring, and $3.3 million in depreciation and maintenance expense.41The increase in general and administrative expenses for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to increases of $81.2 million in legal, consulting and other professional fees mainly in connection with the Ansys Merger, $27.1 million in employee-related costs due to headcount increases from hiring, and $13.7 million in depreciation and maintenance expense.Amortization of Acquired Intangible AssetsAmortization of acquired intangible assets, included in operating expenses, consists of the amortization of trademarks, trade names and customer relationships intangible assets related to acquisitions. Â July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months ended4.1Â 2.0Â 2.1Â 105Â %Percentage of total revenueâ€”Â %â€”Â %Nine months ended12.2Â 5.9Â 6.3Â 107Â %Percentage of total revenueâ€”Â %â€”Â %The increase in amortization of acquired intangible assets for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was primarily due to amortization expense related to intangible assets acquired during the three and nine months ended JulyÂ 31, 2024, partially offset by certain intangible assets becoming fully amortized.Interest and Other Income (Expense), NetÂ July 31,Â Â Â 20242023$Â Change%Â ChangeÂ (dollarsÂ inÂ millions)ThreeÂ monthsÂ endedInterest income$15.7Â $11.9Â $3.8Â 32Â %Interest expense(11.8)(0.3)(11.5)3,833Â %Gains (losses) on assets related to deferred compensation plan 25.8Â 21.5Â 4.3Â 20Â %Foreign currency exchange gains (losses)0.3Â â€”Â 0.3Â 100Â %Other, net1.8Â (7.6)9.4Â (124)%Total$31.8Â $25.5Â $6.3Â 25Â %Nine months endedInterest income$40.5Â $26.9Â $13.6Â 51Â %Interest expense(19.4)(0.9)(18.5)2,056Â %Gains (losses) on assets related to deferred compensation plan76.3Â 44.1Â 32.2Â 73Â %Foreign currency exchange gains (losses)3.4Â 0.4Â 3.0Â 750Â %Gain on sale of strategic investments55.1Â â€”Â 55.1Â 100Â %Other, net(9.8)(17.9)8.1Â (45)%Total$146.1Â $52.6Â $93.5Â 178Â %The increase in interest and other income (expense) for the three and nine months ended JulyÂ 31, 2024 as compared to the same periods in fiscal 2023 was primarily due to the change in the fair value of our executive deferred compensation plan assets. The increase for the nine-month period also included the impact of gain recognized from the sale of strategic investments.Segment Operating ResultsWe do not allocate certain operating expenses managed at a consolidated level to our reportable segments. These unallocated expenses consist primarily of amortization of acquired intangible assets, stock-based compensation expense, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture 42related items. See Note 18. Segment Disclosure of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for more information.Design Automation SegmentÂ July 31,Â Â Â 20242023Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months endedAdjusted operating income$440.9Â $410.0Â $30.9Â 8Â %Adjusted operating margin41Â %41Â %â€”Â %â€”Â %Nine months endedAdjusted operating income$1,218.6Â $1,102.8Â $115.8Â 11Â %Adjusted operating margin39Â %39Â %â€”Â %â€”Â %The increase in adjusted operating income for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was primarily due to an increase in revenue from arrangements booked in prior periods.Design IP SegmentÂ July 31,Â Â Â 20242023Change%Â ChangeÂ (dollarsÂ inÂ millions)Three months endedAdjusted operating income$169.7Â $82.8Â $86.9Â 105Â %Adjusted operating margin37Â %24Â %13Â %54Â %Nine months endedAdjusted operating income$540.2Â $277.7Â $262.5Â 95Â %Adjusted operating margin39Â %27Â %12Â %44Â %The increase in adjusted operating income for the three and nine months ended JulyÂ 31, 2024 compared to the same periods in fiscal 2023 was primarily due to an increase in the revenue of IP products driven by timing of customer demands. Â Â Â Â Income TaxesOur effective tax rate decreased in the three months ended JulyÂ 31, 2024, as compared to the same period in fiscal 2023, primarily due to the tax benefits recorded as a result of valuation allowance releases against California research tax credits. Our effective tax rate for the nine months ended JulyÂ 31, 2024 is consistent with the same period in fiscal 2023.See Note 20. Income Taxes of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for further discussion. Liquidity and Capital ResourcesOur principal sources of liquidity are funds generated from our business operations and funds that may be drawn down under our revolving credit and term loan facilities. As of JulyÂ 31, 2024, we held $2.0 billion in cash, cash equivalents and short-term investments. We also held $2.2 million in restricted cash primarily associated with deposits for office leases and employee loan programs. Our cash equivalents consisted primarily of taxable money market mutual funds, time deposits and highly liquid investments with maturities of three months or less. Our short-term investments include U.S. government and municipal obligations, investment-grade available-for-sale debt and asset backed securities with an overall weighted-average credit rating of approximately AA. As of JulyÂ 31, 2024, approximately $968.1 million of our cash and cash equivalents were domiciled in various foreign jurisdictions. We have provided for foreign withholding taxes on the undistributed earnings of certain of our 43foreign subsidiaries to the extent such earnings are no longer considered to be indefinitely reinvested in the operations of those subsidiaries.We expect that the pending Ansys Merger is likely to result in a material increase in our debt and liquidity needs that will impact our capital needs during as well as beyond the next twelve months. We intend to fund our anticipated $19Â billion cash consideration payment through a combination of cash and debt, and have fully-committed debt financing in place for $16.0Â billion. Net cash proceeds received from certain debt and equity issuances or the sale of certain businesses and assets, including the pending Software Integrity Divestiture, as well as term loan commitments under certain qualifying term loan facilities, will result in mandatory commitment reductions under the Bridge Commitment. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for further discussion.Effective fiscal 2023, our research and development expenditures were required to be capitalized and amortized under the Tax Cuts and Jobs Act instead of being deducted when incurred for US tax purposes, which significantly increases our federal cash tax liability. Additionally, as a result of the IRS tax relief for the California winter storms, the due date for our fiscal 2023 federal tax payment was November 16, 2023 and as such, we deferred our fiscal 2023 federal cash tax payments until the first quarter of fiscal 2024. This resulted in a significant increase to our cash outflows beginning in fiscal 2024.As of JulyÂ 31, 2024, $194.3 million remained available for future stock repurchases under our stock repurchase program (the Program). We have suspended the Program in connection with the pending Ansys Merger until we are able to reduce our expected debt levels.During the nine months ended JulyÂ 31, 2024, there were no other significant changes to our material cash requirements, including contractual and other obligations, as presented in Part II, Item 7, Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report.Based on past performance and current expectations, we believe that our existing cash, cash equivalents and short-term investments and sources of liquidity, as well as the committed debt financing related to the pending Ansys Merger, will be sufficient to satisfy our cash requirements over the next twelve-month period and beyond. Our future cash requirements will depend on many factors, including our rate of revenue growth, the expansion of our sales and marketing activities, the timing and extent of our spending to support our research and development efforts, and our investments in or acquisitions of businesses, applications or technologies.The following sections discuss changes in our condensed consolidated statements of cash flows and other commitments of our liquidity and capital resources during the nine months ended JulyÂ 31, 2024.Cash FlowsOur condensed consolidated statements of cash flows include cash flows related to the Software Integrity business. Significant non-cash items and capital expenditures of discontinued operations related to our Software Integrity business are presented separately in Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report.Â Nine Months EndedÂ Â July 31,Â Â Â 20242023$Â ChangeÂ (dollarsÂ inÂ millions)Cash provided by operating activities$844.2Â $1,377.2Â $(533.0)Cash used in investing activities(220.0)(181.6)(38.4)Cash used in financing activities(211.4)(942.6)731.2Â Cash Provided by Operating ActivitiesWe expect cash from our operating activities to fluctuate as a result of a number of factors, including the timing of our billings and collections, our operating results, and the timing and amount of tax and other liability payments. Cash provided by our operations is dependent primarily upon the payment terms of our license agreements. We generally receive cash from upfront arrangements much sooner than from time-based products revenue, in which the license fee is typically paid either quarterly or annually over the term of the license.44The decrease in cash provided by operating activities for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to higher federal tax payments of $417.0 million, which included $187.0 million of fiscal 2023 federal tax payments that were paid in fiscal 2024 as a result of payment deadline extensions due to IRS tax relief for the California winter storms.Cash Used in Investing ActivitiesThe increase in cash used in investing activities for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to higher cash paid for acquisitions of $105.6 million, partially offset by higher proceeds from the maturities and sales of investments of $42.8 million and lower purchases of property and equipment of $17.7 million.Cash Used in Financing ActivitiesThe decrease in cash used in financing activities for the nine months ended JulyÂ 31, 2024 compared to the same period in fiscal 2023 was primarily due to lower stock repurchases of $905.7 million, as we have suspended the Program in connection with the pending Ansys Merger until we reduce our expected debt levels, partially offset by higher income taxes paid for net share settlements of $79.6 million, the payment of bridge financing and term loan costs of $72.3 million in connection with the Ansys Merger, and lower proceeds from the issuance of common stock of $21.7 million.Bridge Commitment Letter, Term Loan and Revolving Credit FacilitiesOn January 15, 2024, we entered into the Bridge Commitment Letter with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, the Bridge Commitment. The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. The proceeds of any borrowing under the Bridge Commitment will be used for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement.The commitments to provide the Bridge Commitment may be terminated in whole or reduced in part, at our discretion. In addition, the Bridge Commitment Letter provides that net cash proceeds received from certain debt and equity issuances or the sale of certain businesses and assets, including the pending Software Integrity Divestiture, as well as term loan commitments under certain qualifying term loan facilities, will result in mandatory commitment reductions under the Bridge Commitment.On FebruaryÂ 13, 2024, we entered into the Term Loan Agreement in connection with the financing of the pending Ansys Merger. The Term Loan Agreement provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. The Term Loan Agreement provides for two tranches of senior unsecured term loans: a $1.45Â billion tranche (Tranche 1) that matures two years after funding and a $2.85Â billion tranche (Tranche 2) that matures three years after funding. There was no outstanding balance under the Term Loan Agreement as of JulyÂ 31, 2024.Under the Term Loan Agreement, borrowings will bear interest on the principal amount outstanding at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.875% to 1.375% (in the case of Tranche 1) or 1.000% to 1.500% (in the case of Tranche 2) or (ii) the ABR (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.000% to 0.375% (in the case of Tranche 1) or 0.000% to 0.500% (in the case of Tranche 2). On May 14, 2024, a ticking fee began to accrue under the Term Loan Agreement in an amount equal to a rate per annum equal to 0.10% times the actual daily undrawn portion of the commitments in respect of the term loan facility. This ticking fee will accrue until the earlier of (i) termination or expiration of the commitments under the term loan facility or (ii) the funding of the commitments, at which point the accrued amount of the ticking fee will become payable.The Term Loan Agreement contains a financial covenant requiring that Synopsys maintain a maximum consolidated leverage ratio commencing the last day of the first fiscal quarter ending on or after the completion of the Ansys Merger, as well as other non-financial covenants.45On FebruaryÂ 13, 2024, we entered into a Sixth Amendment Agreement (the Sixth Amendment), which amended and restated our previous revolving credit agreement, dated as of December 14, 2022 (as amended and restated, the Revolving Credit Agreement).Under the Sixth Amendment, certain amendments became effective on FebruaryÂ 13, 2024 and certain additional amendments will become effective upon the completion of the Ansys Merger. Upon the effective date, the Sixth Amendment amended the financial covenant to allow netting of the cash proceeds of certain debt incurred to finance the Ansys Merger as well as certain other modifications set forth therein. Upon the completion of the Ansys Merger, the Sixth Amendment, among other things: â€¢amends the applicable margin used to determine the interest that accrues on loans and the facility fee payable under the revolving credit facility to be based on our credit ratings;â€¢amends the financial covenant thresholds under the financial covenant in the Revolving Credit Agreement requiring us to maintain a maximum consolidated leverage ratio;

andâ€¢amends certain conditions to borrowing, other non-financial covenants and events of default.The Revolving Credit Agreement provides an unsecured $850.0Â million committed multicurrency revolving credit facility and an unsecured uncommitted incremental revolving loan facility of up to $150.0Â million. The maturity date of the revolving loan facility is December 14, 2027, which may be extended at Synopsysâ€™ option. There was no outstanding balance under the Revolving Credit Agreement as of JulyÂ 31, 2024.Interest accrues on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Revolving Credit Agreement) plus an applicable margin or (ii) the ABR (as defined in the Revolving Credit Agreement) plus an applicable margin. The applicable margin for Adjusted Term SOFR Rate based loans ranges from 0.785% to 0.975%, based upon Synopsysâ€™ consolidated leverage ratio. The applicable margin for ABR based loans is 0.000%. In addition to the interest on any outstanding loans, Synopsys is also required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.09% to 0.15%Â based on Synopsysâ€™ consolidated leverage ratio on the daily amount of the revolving commitment.Subject to the completion of the Ansys Merger, interest under the Revolving Credit Agreement will accrue on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate plus an applicable margin based on our credit ratings ranging from 0.795% to 1.200% or (ii) the ABR plus an applicable margin based on our credit ratings ranging from 0.000% to 0.200%. In addition to the interest on any outstanding loans, Synopsys will also be required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.080% to 0.175% based on the credit ratings of Synopsys on the daily amount of the revolving commitment.The Revolving Credit Agreement contains a financial covenant requiring us to maintain a maximum consolidated leverage ratio, as well as other non-financial covenants. As of JulyÂ 31, 2024, we were in compliance with the financial covenant.In July 2018, we entered into a 12-year 220.0 million Renminbi (approximately $33.0 million) credit agreement with a lender in China to support our facilities expansion. Borrowings bear interest at a floating rate based on the 5 year Loan Prime Rate plus 0.74%. As of JulyÂ 31, 2024, we had $15.6 million outstanding balance under the agreement.See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report for more information.46Item 3.Quantitative and Qualitative Disclosures About Market RiskSee Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements and ItemÂ 2, Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations contained in Part I of this Quarterly Report regarding borrowings under our Term Loan Agreement and Revolving Credit Agreement.As of AugustÂ 3, 2024, our exposure to market risk had not changed materially since October 28, 2023. For more information on financial market risks related to changes in interest rates and foreign currency rates, reference is made to ItemÂ 7A, Quantitative and Qualitative Disclosures About Market Risk contained in PartÂ II of our Annual Report.47Item 4.Controls and Procedures(a)Evaluation of Disclosure Controls and Procedures. As of AugustÂ 3, 2024, Synopsys carried out an evaluation under the supervision and with the participation of Synopsysâ€™ management, including the Chief Executive Officer (CEO) and Chief Financial Officer (CFO), of the effectiveness of the design and operation of Synopsysâ€™ disclosure controls and procedures (as such term is defined in RulesÂ 13a-15(e)Â and 15d-15(e)Â under the Securities Exchange Act of 1934, as amended (the Exchange Act)). There are inherent limitations to the effectiveness of any system of disclosure controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable, not absolute, assurance of achieving their control objectives. Our CEO and CFO have concluded that, as of AugustÂ 3, 2024, Synopsysâ€™ disclosure controls and procedures were effective to provide reasonable assurance that information required to be disclosed in the reports Synopsys files and submits under the Exchange Act is recorded, processed, summarized and reported as and when required, and that such information is accumulated and communicated to Synopsysâ€™ management, including the CEO and CFO, to allow timely decisions regarding its required disclosure.(b)Changes in Internal Control over Financial Reporting.Â There were no changes in Synopsysâ€™ internal control over financial reporting during the fiscal quarter ended AugustÂ 3, 2024 that have materially affected, or are reasonably likely to materially affect, Synopsysâ€™ internal control over financial reporting.48PARTÂ II. OTHER INFORMATIONÂ ItemÂ 1.Legal ProceedingsWe are subject to routine legal proceedings, as well as demands, claims and threatened litigation that arise in the normal course of our business. The ultimate outcome of any litigation is often uncertain and unfavorable outcomes could have a negative impact on our results of operations and financial condition. Regardless of outcome, litigation can have an adverse impact on Synopsys because of the defense costs, diversion of management resources and other factors.We regularly review the status of each significant matter and assess its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount is estimable, we accrue a liability for the estimated loss. Legal proceedings are inherently uncertain and as circumstances change, it is possible that the amount of any accrued liability may increase, decrease or be eliminated. We are not aware of any legal proceedings that would materially impact our business, operating results or financial condition.49ItemÂ 1A.Risk FactorsRisk Factor SummaryOur business is subject to numerous risks and uncertainties. These risks include, but are not limited to, the following: Industry Risksâ€¢Uncertainty in the macroeconomic environment, and its potential impact on the semiconductor and electronics industries, may negatively affect our business, operating results and financial condition.â€¢The growth of our business depends primarily on the semiconductor and electronics industries.â€¢We operate in highly competitive industries, and if we do not continue to meet our customersâ€™ demand for innovative technology at lower costs, our products may not be competitive or may become obsolete.â€¢We are subject to governmental export and import requirements that could subject us to liability and restrict our ability to sell our products and services, which could impair our ability to compete in international markets.â€¢Consolidation among our customers and within the industries in which we operate, as well as our dependence on a relatively small number of large customers, may negatively impact our operating results.Business Operations Risksâ€¢The global nature of our operations exposes us to increased risks and compliance obligations.â€¢Our operating results may fluctuate in the future, which may adversely affect our stock price.â€¢Cybersecurity threats or other security breaches could compromise sensitive information belonging to us or our customers and could harm our business and our reputation.â€¢If we fail to protect our proprietary technology, our business will be harmed.â€¢We may not be able to realize the potential financial or strategic benefits of the transactions we complete, or find suitable target businesses and technology to acquire.â€¢We may fail to complete the divestiture of our Software Integrity business, and a completed divestiture may disrupt our remaining business or not achieve its intended benefits.â€¢If we fail to timely recruit and/or retain senior management and key employees globally, our business may be harmed.â€¢We may pursue new product and technology initiatives, and if we fail to successfully carry out these initiatives, we could be adversely impacted.â€¢We may have to invest more resources in research and development than anticipated, which could increase our operating expenses and negatively affect our operating results.â€¢Product errors or defects could expose us to liability and harm our reputation and we could lose market share.â€¢Our hardware products, which primarily consist of prototyping and emulation systems, subject us to distinct risks.â€¢From time to time, we are subject to claims that our products infringe on third-party intellectual property rights.â€¢We may not be able to continue to obtain licenses to third-party software and intellectual property on reasonable terms or at all, which may disrupt our business and harm our financial results.â€¢In preparing our financial statements we make certain assumptions, judgments and estimates that affect amounts reported in our consolidated financial statements, which, if notÂ accurate, may significantly impact our financial results.â€¢Liquidity requirements in our U.S. operations may require us to raise cash in uncertain capital markets, which could negatively affect our financial condition.Risks Related to the Ansys Mergerâ€¢We may fail to complete the Ansys Merger or may not complete it on the terms described herein or in our other filings with the SEC.â€¢The Ansys Merger is subject to the receipt of governmental approvals that may impose conditions that could have an adverse effect on us or, if not obtained, could prevent completion of the Ansys Merger.â€¢Failure to realize the benefits expected from the Ansys Merger could adversely affect our business, operating results and financial condition. 50â€¢As a result of the Ansys Merger, we anticipate that the scope and size of our operations and business will substantially change and will result in certain incremental risks to us, including increased competition. We may not realize the full expected benefits of the Ansys Merger.â€¢Our significant debt may limit our financial flexibility following the Ansys Merger.â€¢The covenants contained in the agreements governing our indebtedness following the Ansys Merger may impose restrictions on us and certain of our subsidiaries that may affect our ability to operate our businesses.Legal and Regulatory Risksâ€¢Our results could be adversely affected by a change in our effective tax rate, changes in our geographical earnings mix, unfavorable government reviews of our tax returns, material differences between our forecasted and actual annual effective tax rates, or future changes to our tax structure.â€¢Our business is subject to evolving corporate governance and public disclosure regulations and expectations, including with respect to environmental, social and governance matters, that could expose us to numerous risks.â€¢Changes in the U.S. generally accepted accounting principles (U.S. GAAP) could adversely affect our financial results and may require significant changes to our internal accounting systems and processes.â€¢We may be subject to litigation proceedings that could harm our business.â€¢There are inherent limitations on the effectiveness of our controls and compliance programs.General Risksâ€¢Our investment portfolio may be impaired by any deterioration of capital markets.â€¢Catastrophic events and the effects of climate change, pandemics or other unexpected events may disrupt our business and harm our operating results.Factors that May Affect Future ResultsA description of the risk factors associated with our business is set forth below. Some of these risks are highlighted in the following discussion and in Management's Discussion and Analysis of Financial Condition and Results of Operations, Legal Proceedings, and Quantitative and Qualitative Disclosures About Market Risk of this Quarterly Report. The occurrence of any of these risks or additional risks and uncertainties not presently known to us or that we currently believe to be immaterial could materially and adversely affect our business, financial condition, operating results and stock price. These risks and uncertainties could cause our actual results to differ materially from the results contemplated by the forward-looking statements contained in this Quarterly Report. Investors should carefully consider all relevant risks and uncertainties before investing in our common stock.Industry RisksUncertainty in the macroeconomic environment, and its potential impact on the semiconductor and electronics industries, may negatively affect our business, operating results and financial condition.Uncertainty in the macroeconomic environment, including the effects of, among other things, sustained global inflationary pressures and interest rates, potential economic slowdowns or recessions, supply chain disruptions, geopolitical pressures, fluctuations in foreign exchange rates and associated global economic conditions, have resulted in volatility in credit, equity and foreign currency markets. This uncertain macroeconomic environment could lead some of our customers to postpone their decision-making, decrease their spending and/or delay their payments to us. Such caution by customers could, among other things, limit our ability to maintain or increase our sales or recognize revenue from committed contracts.If these macroeconomic uncertainties persist and economic conditions continue to deteriorate, then the semiconductor and electronics industries could fail to grow. Additionally, uncertain macroeconomic conditions could also have the effect of increasing other risks and uncertainties facing our business, which could have a material adverse effect on our operating results and financial condition. Such risks that may be heightened by uncertain macroeconomic conditions include Chinaâ€™s stated policy of becoming a global leader in the semiconductor industry, which may lead to increased competition or further disruption of international trade relationships, including, but not limited to, additional government trade restrictions. For more on risks related to government export and import restrictions such as the U.S. governmentâ€™s Entity List and Export Regulations (as defined below), see â€œWe are subject to governmental export and import requirements that could subject us to liability and restrict our ability to sell our products and services, which could impair our ability to compete in international markets.â€51Adverse economic conditions affect demand for devices that our products help create, such as the ICs incorporated in personal computers, smartphones, automobiles and servers. Longer-term reduced demand for these or other products could result in reduced demand for design solutions and significant decreases in our average selling prices and product sales over time. Future economic downturns could also adversely affect our business, operating results and financial condition. In addition, if our customers or distributors build elevated inventory levels, we could experience a decrease in short-term and/or long-term demand for our products. If any of these events or disruptions were to occur, the demand for our products and services could be adversely affected along with our business, operating results and financial condition. Additionally, due to our business model, the negative impact of these events or disruptions may not be immediately realized.Further economic uncertainty could also adversely affect the banking and financial services industry and result in bank failures or credit downgrades of the banks we rely on for foreign currency forward contracts, credit and banking transactions, and deposit services, or cause them to default on their obligations. Additionally, the banking and financial services industries are subject to complex laws and are heavily regulated. There is uncertainty regarding how proposed, contemplated or future changes to the laws, policies and regulations governing the banking and financial services industry could affect our business. A deterioration of conditions in worldwide credit markets could limit our ability to obtain external financing to fund our operations, capital expenditures or pending acquisitions, such as the Ansys Merger. In addition, difficult economic conditions may also result in a higher rate of losses on our accounts receivable due to credit defaults. Any of the foregoing could cause adverse effects on our business, operating results and financial condition, and could cause our stock price to decline.The growth of our business depends primarily on the semiconductor and electronics industries.The growth of the EDA industry as a whole and our sales in our Design Automation and Design IP segments are dependent on the semiconductor and electronics industries. A substantial portion of our business and revenue depends upon the commencement of new design projects by semiconductor manufacturers, systems companies and their customers. The increasing complexity of designs of SoCs, ICs, electronic systems and customersâ€™ concerns about managing costs have previously led to, and in the future could lead to, a decrease in design starts and design activity in general. For example, in response to this increasing complexity, some customers may choose to focus on one discrete phase of the design process or opt for less advanced, but less risky, manufacturing processes that may not require the most advanced EDA products. Demand for our products and services could decrease and our business, operating results and financial condition could be adversely affected if growth in the semiconductor and electronics industries slows or stalls, including, among other things, due to sustained global inflationary pressures and interest rates, a continued or worsening global supply chain disruption, geopolitical pressures or economic slowdowns or recessions. Additionally, as the EDA industry has matured, stronger competition has emerged from companies better able to compete as sole source vendors. This increased competition may cause our revenue growth rate to decline and exert downward pressure on our operating margins, which would have an adverse effect on our business and financial condition.Furthermore, the semiconductor and electronics industries have become increasingly complex and interconnected ecosystems. Many of our customers outsource the manufacturing of their semiconductor designs to foundries. Our customers also frequently incorporate third-party IP, whether provided by us or other vendors, into their designs to improve the efficiency of their design process. We work closely with major foundries to ensure that our EDA, IP and manufacturing solutions are compatible with their manufacturing processes. Similarly, we work closely with other major providers of semiconductor IP, particularly microprocessor IP, to optimize our EDA tools for use with their IP designs and to assure that their IP and our own IP products work effectively together, as we may each provide for the design of separate components on the same chip. If we fail to optimize our EDA and IP solutions for use with major foundriesâ€™ manufacturing processes or major IP providersâ€™ products, or if our access to such foundry processes or third-party IP products is hampered, then our solutions may become less desirable to our customers, resulting in an adverse effect on our business and financial condition.We operate in highly competitive industries, and if we do not continue to meet our customersâ€™ demand for innovative technology at lower costs, our products may not be competitive or may become obsolete.In our Design Automation segment, we compete against EDA vendors that offer a variety of products and services, such as Cadence Design Systems, Inc. and Siemens EDA. We also compete with other EDA vendors, including new entrants to the marketplace, that offer products focused on one or more discrete phases of the IC design process. Moreover, our customers internally develop design tools and capabilities that compete with our products. In our Design IP segment, we compete against a growing number of silicon IP providers as well as our customersâ€™ internally developed IP. 52The industries in which we operate are highly competitive, with new competitors entering these markets both domestically and internationally. For example, China has implemented national policies favoring Chinese companies and has formed government-backed investment funds as it seeks to build independent EDA capabilities and compete internationally in the semiconductor industry. The demand for our products and services is dynamic and depends on a number of factors, including, among other things, demand for our customersâ€™ products, design starts and our customersâ€™ budgetary constraints.Â Technology in these industries evolves rapidly and is characterized by frequent product introductions and improvements as well as changes in industry standards and customer requirements. For example, the adoption of cloud computing and AI technologies can bring new demand and also challenges in terms of disruption to both business models and our existing technology offerings. Our efforts in developing such new technology solutions, including, for example, our current efforts in creating cloud computing and AI solutions, may not succeed. Semiconductor device functionality requirements continually increase while feature widths decrease, which substantially increases the complexity, cost and risk of chip design and manufacturing. At the same time, our customers and potential customers continue to demand a lower total cost of design, which can lead to the consolidation of their purchases from one vendor.Â In order to succeed in this environment, we must successfully meet our customersâ€™ technology requirements and increase the value of our products, while also striving to reduce their overall costs and our own operating costs.We compete principally on the basis of technology, product quality and features (such as ease-of-use), license or usage terms, post-contract customer support, interoperability among products, and

price and payment terms. Specifically, we believe the following competitive factors affect our success:â€¢Our ability to anticipate and lead critical development cycles and technological shifts, innovate rapidly and efficiently, improve our existing software and hardware products, and successfully develop or acquire such new products;â€¢Our ability to offer products that provide both a high level of integration into a comprehensive platform and a high level of individual product performance;â€¢Our ability to enhance the value of our offerings through more favorable terms;â€¢Our ability to manage an efficient supply chain to ensure hardware product availability;â€¢Our ability to compete on the basis of payment terms; andâ€¢Our ability to provide engineering and design consulting for our products.If we fail to successfully manage any of these competitive factors, fail to successfully balance the conflicting demands for innovative technology and lower overall costs, or fail to address new competitive forces, our business, operating results and financial condition will be adversely affected.We are subject to governmental export and import requirements that could subject us to liability and restrict our ability to sell our products and services, which could impair our ability to compete in international markets.We are subject to export controls, laws and regulations that restrict selling, shipping or transmitting certain of our products and services and transferring certain of our technology outside the United States. These requirements also restrict domestic release of software and technology to certain foreign nationals. In addition, we are subject to customs and other import requirements that regulate imports that may be important for our business.If we fail to comply with the U.S. Export Administration Regulations or other U.S. or non-U.S. export requirements (collectively, the Export Regulations), we could be subject to substantial civil and criminal penalties, including fines to Synopsys and the possible loss of the ability to engage in exporting and other international transactions. Due to the nature of our business and technology, the Export Regulations may also subject us to governmental inquiries regarding transactions between us and certain foreign entities. For example, we have received administrative subpoenas from the U.S. Bureau of Industry and Security (the BIS) requesting production of information and documentation relating to transactions with certain Chinese entities. We have controls and procedures that are designed to achieve compliance with applicable Export Regulations, but we and governmental agencies have had to and may in the future review certain transactions.We believe that the Export Regulations do not materially impact our business at this time, but we cannot predict the impact that additional regulatory changes may have on our business in the future. The United States has published significant changes to the Export Regulations with respect to Russia and China, and we anticipate additional changes to the Export Regulations in the future. For example, the United States government has implemented controls on advanced computing ICs, computer commodities that contain such ICs, and certain semiconductor manufacturing items, as well as controls on transactions involving items for supercomputer and semiconductor 53manufacturing end-users. The controls expand the scope of foreign-produced items subject to license requirements for certain entities on the U.S. government's Entity List. Future changes to the Export Regulations, including changes in the enforcement and scope of such regulations, may create delays in the introduction of our products or services in international markets or could prevent our customers with international operations from deploying our products or services globally. In some cases, such changes could prevent the export or import of our products.Consolidation among our customers and within the industries in which we operate, as well as our dependence on a relatively small number of large customers, may negatively impact our operating results.A number of business combinations and strategic partnerships among our customers in the semiconductor and electronics industries have occurred over the last several years, and more could occur in the future. Consolidation among our customers could lead to fewer customers or the loss of customers, increased customer bargaining power or reduced customer spending on software and services. Further, we depend on a relatively small number of large customers, and on such customers continuing to renew licenses and purchase additional products from us, for a large portion of our revenues. Consolidation among our customers could also reduce demand for our products and services if customers streamline research and development or operations, or reduce or delay purchasing decisions. Our customers operate in highly competitive industries and could reduce spending on our products or services as a result of competitive pressures or other factors. Reduced customer spending or the loss of customers, particularly our large customers, could adversely affect our business, operating results and financial condition. In addition, we and our competitors may acquire businesses and technologies to complement and expand our respective product offerings. Consolidated competitors could have considerable financial resources and channel influence as well as broad geographic reach, which may enable them to be more competitive in, among other things, product differentiation, breadth of technology portfolio, pricing, marketing, services or support. Such consolidations or acquisitions could negatively impact our business, operating results and financial condition.Business Operations RisksThe global nature of our operations exposes us to increased risks and compliance obligations.We derive roughly half of our revenue from sales outside the United States, and we expect our orders and revenue to continue to depend on sales to customers outside the U.S. We have also continually expanded our non-U.S. operations. This strategy requires us to recruit and retain qualified technical and managerial employees, manage multiple remote locations performing complex software development projects, and ensure intellectual property protection outside of the U.S. Our international operations and sales subject us to a number of increased risks, including, among others:â€¢Economic slowdowns, recessions or uncertainty in financial markets, including, among other things, the impact of sustained global inflationary pressures and interest rates;â€¢Uncertain economic, legal and political conditions in China, Europe and other regions where we do business, including, for example, changes in China-Taiwan relations, regional or global military conflicts, and related sanctions and financial penalties imposed on participants in such conflicts;â€¢Government trade restrictions, including tariffs, export controls or other trade barriers, and changes to existing trade arrangements, including the unknown impact of current and future U.S. and Chinese trade regulations;â€¢Ineffective or weaker legal protection of intellectual property rights;â€¢Difficulties in adapting to cultural differences in the conduct of business, which may include business practices in which we are prohibited from engaging by the Foreign Corrupt Practices Act or other anti-corruption laws; andâ€¢Financial risks such as longer payment cycles, changes in currency exchange rates and difficulty in collecting accounts receivable.Furthermore, if any of the foreign economies in which we do business deteriorate or if we fail to effectively manage our global operations, our business and operating results will be harmed.There is inherent risk, based on the complex relationships between certain Asian countries such as China, where we derive a growing percentage of our revenue, and the United States, that political, diplomatic or military events could result in trade disruptions, including tariffs, trade embargoes, export restrictions and other trade barriers. A significant trade disruption, export restriction, or the establishment or increase of any trade barrier in any area where we do business could reduce customer demand and cause customers to search for substitute products and 54services, make our products and services more expensive or unavailable for customers, increase the cost of our products and services, have a negative impact on customer confidence and spending, make our products less competitive, or otherwise have a materially adverse impact on our backlog, future revenue and profits and our customersâ€™ and suppliersâ€™ business, operating results and financial condition. For example and as described above, the ongoing geopolitical and economic uncertainty between the U.S. and China, the unknown impact of current and future U.S. and Chinese trade regulations, and other geopolitical risks with respect to China and Taiwan may cause disruptions in the markets and industries we serve and our supply chain, decreased demand from customers for products using our solutions or other disruptions, which could, directly or indirectly, materially harm our business, operating results and financial condition. For more on risks related to government export and import restrictions such as the U.S. governmentâ€™s Entity List and the Export Regulations see â€œWe are subject to governmental export and import requirements that could subject us to liability and restrict our ability to sell our products and services, which could impair our ability to compete in international markets.â€In response to the U.S. adopting tariffs and trade barriers or taking other actions, other countries may also adopt tariffs and trade barriers that could limit our ability to offer our products and services. Current and potential customers who are concerned or affected by such tariffs or restrictions may respond by developing their own products or replacing our solutions, which would have an adverse effect on our business. In addition, government or customer efforts, attitudes, laws or policies regarding technology independence may lead to non-U.S. customers favoring their domestic technology solutions that could compete with or replace our products, which would also have an adverse effect on our business.In addition to tariffs and other trade barriers, our global operations are subject to numerous U.S. and foreign laws and regulations such as those related to anti-corruption, tax, corporate governance, imports and exports, financial and other disclosures, privacy and labor relations. These laws and regulations are complex and may have differing or conflicting legal standards, making compliance difficult and costly. In addition, there is uncertainty regarding how proposed, contemplated or future changes to these complex laws and regulations could affect our business. We may incur substantial expense in complying with the new obligations to be imposed by these laws and regulations, and we may be required to make significant changes in our business operations, all of which may adversely affect our revenues and our business overall. If we violate these laws and regulations, we could be subject to fines, penalties or criminal sanctions, and may be prohibited from conducting business in one or more countries. Any violation individually or in the aggregate could have a material adverse effect on our operations and financial condition.Our financial results are also affected by fluctuations in foreign currency exchange rates. A weakening U.S. dollar relative to other currencies increases expenses of our foreign subsidiaries when they are translated into U.S. dollars in our consolidated statements of income. Likewise, a strengthening U.S. dollar relative to other currencies, including the renminbi or Yen, reduces revenue of our foreign subsidiaries upon translation and consolidation. Exchange rates are subject to significant and rapid fluctuations due to a number of factors, including interest rate changes and political and economic uncertainty. Therefore, we cannot predict the prospective impact of exchange rate fluctuations. We may be unable to hedge all of our foreign currency risk, which could have a negative impact on our operating results. Our operating results may fluctuate in the future, which may adversely affect our stock price.Our operating results are subject to quarterly and annual fluctuations, which may adversely affect our stock price. Our historical results should not be viewed as indicative of our future performance due to these periodic fluctuations.Many factors may cause our backlog, revenue or earnings to fluctuate, including, among other things:â€¢Changes in demand for our productsâ€”especially products, such as hardware, generating upfront revenueâ€”due to fluctuations in demand for our customersâ€™ products and due to constraints in our customersâ€™ budgets for research and development and EDA products and services;â€¢Changes in demand for our products due to customers reducing their expenditures, whether as a cost-cutting measure or a result of their insolvency or bankruptcy, and whether due to sustained global inflationary pressures and interest rates and a prolonged global semiconductor shortage or other reasons;â€¢Product competition in the EDA industry, which can change rapidly due to industry or customer consolidation and technological innovation;55â€¢Our ability to innovate and introduce new products and services or effectively integrate products and technologies that we acquire;â€¢Failures or delays in completing sales due to our lengthy sales cycle, which often includes a substantial customer evaluation and approval process because of the complexity of our products and services;â€¢Our ability to implement effective cost control measures;â€¢Our dependence on a relatively small number of large customers, and on such customers continuing to renew licenses and purchase additional products from us, for a large portion of our revenue;â€¢Changes to the amount, composition and valuation of, and any impairments to or write-offs of, our assets or strategic investments;â€¢Changes in the mix of our products sold, as increased sales of our products with lower gross margins, such as our hardware products, may reduce our overall margins;â€¢Expenses related to our acquisition and integration of businesses and technologies, including our expenses related to the Ansys Merger;â€¢Changes in tax rules, as well as changes to our effective tax rate, including the tax effects of infrequent or unusual transactions and tax audit settlements;â€¢Delays, increased costs or quality issues resulting from our reliance on third parties to manufacture our hardware products, which includes a sole supplier for certain hardware components; â€¢Natural variability in the timing of IP drawdowns, which can be difficult to predict; â€¢General economic and political conditions that affect the semiconductor and electronics industries, such as disruptions to international trade relationships, including tariffs, export licenses, or other trade barriers affecting our or our suppliersâ€™ products; andâ€¢Changes in accounting standards, which may impact the way we recognize our revenue and costs and impact our earnings.The timing of revenue recognition may also cause our revenue and earnings to fluctuate. The timing of revenue recognition is affected by factors that include:â€¢Cancellations or changes in levels of orders or the mix between upfront products revenue and time-based products revenue;â€¢Delay of one or more orders for a particular period, particularly orders generating upfront products revenue, such as hardware;â€¢Delay in the completion of professional services projects that require significant modification or customization and are accounted for using the percentage of completion method;â€¢Delay in the completion and delivery of IP products in development as to which customers have paid for early access;â€¢Customer contract amendments or renewals that provide discounts or defer revenue to later periods; andâ€¢The levels of our hardware and IP revenues, which are recognized upfront and are primarily dependent upon our ability to provide the latest technology and meet customer requirements.These factors, or any other factors or risks discussed herein, could negatively impact our backlog, revenue or earnings and cause our stock price to decline. Additionally, our results may fail to meet or exceed the expectations of securities analysts and investors, or such analysts may change their recommendation regarding our stock, which could cause our stock price to decline. Our stock price has been, and may continue to be, volatile, which may make it more difficult for our stockholders to sell their shares at a time or a price that is favorable to them.Cybersecurity threats or other security breaches could compromise sensitive information belonging to us or our customers and could harm our business and our reputation.We store sensitive data, including intellectual property, our proprietary business information and that of our customers, and personal information, in our data centers, on our networks or on the cloud. In addition, our operations depend upon our information technology (IT) systems. We maintain a variety of information security policies, procedures, and controls to protect our business and proprietary information, prevent data loss and other security breaches and incidents, keep our IT systems operational and reduce the impact of a security breach or 56incident, but these securities measures cannot provide and have not provided absolute security. In the normal course of business, our systems are and have been the target of malicious cyberattack attempts and have been and may be subject to compromise due to employee error, malfeasance or other disruptions that have and could result in unauthorized disclosure or loss of sensitive information. To date, we have not identified material cyber security incidents or incurred any material expenses with any incidents. However, any breach or compromise could adversely impact our business and operations, expose us or our customers to litigation, investigations, loss of data, increase costs, or result in loss of customer confidence and damage to our reputation, any of which could adversely affect our business and our ability to sell our products and services. Industry incidences of cyberattacks and other cybersecurity breaches have increased and are likely to continue to increase. We are using an increasing number of third-party software solutions, including cloud-based solutions, which increase potential threat vectors, such as by exploitation of misconfigurations or vulnerabilities. We also use third-party vendors that provide software or hardware, have access to our network, and/or store sensitive data, and these third parties are subject to their own cybersecurity threats. Our standard vendor terms and conditions include provisions requiring the use of appropriate security measures to prevent unauthorized use or disclosure of our data, as well as other safeguards. Despite these measures, there is no guarantee that a compromise of our third-party vendors will not occur and in turn result in a compromise of our own IT systems or data. In addition, if we select a vendor that uses cloud storage as part of their service or product offerings, or if we are selected as a vendor for our cloud-based solutions, our proprietary information could be misappropriated by third parties despite our attempts to validate the security of such services. Many employees continue to work remotely based on a hybrid work model, which magnifies the importance of maintaining the integrity of our remote access security measures. We also periodically acquire new businesses with less mature security programs, and it takes time to align their security practices to meet our information security policies, procedures and controls. The techniques used to obtain unauthorized access to networks or to sabotage systems of companies such as ours change frequently and generally are not recognized until launched against a target. We may be unable to anticipate these emerging techniques, react in a timely manner, or implement adequate preventative measures, or we may not have sufficient logging available to fully investigate the incident. Our security measures vary in maturity across the business and may be and have been circumvented. For example, we have identified instances where employees have used non-approved applications for business purposes, some of which do not meet our security standards. In addition, we discovered unauthorized third-party access to our products and product license files hosted on our SolvNet Plus customer license and product delivery system in 2015. Any security breach of our own or a third-party vendorâ€™s systems could cause us to be non-compliant with applicable laws or regulations, subject us to legal claims or proceedings, disrupt our operations, damage our reputation, and cause a loss of confidence in our products and services, any of which could adversely affect our business and our ability to sell our products and services.Our software products and hosted solutions are also targeted by hackers and may be compromised by, among other things, phishing, exploits of our code or our system configurations, malicious code (such as viruses and worms), distributed denial-of-service attacks, sophisticated attacks conducted or sponsored by nation-states, advanced persistent threat intrusions, ransomware and other malware. We leverage many security best practices throughout the software development lifecycle, but our security development practices vary in maturity across the business and may not be effective against all cybersecurity threats. Furthermore, due to geopolitical incidents, including regional military conflicts, state-supported and geopolitical-related cybersecurity incidents against companies such as ours may increase. Attacks on our products could potentially disrupt the proper functioning of our software, cause errors in the output of our customersâ€™ work, allow unauthorized access to our or our customersâ€™ proprietary information or cause other destructive outcomes.If we fail to protect our proprietary technology, our business will be harmed.Our success depends in part upon protecting our proprietary technology. Our efforts to protect our technology may be costly and unsuccessful. We rely on agreements with customers,

employees and other third parties as well as intellectual property laws worldwide to protect our proprietary technology. These agreements may be breached, and we may not have adequate remedies for any breach. Additionally, despite our measures to prevent piracy, other parties may attempt to illegally copy or use our products, which could result in lost revenue if their efforts are successful. Some foreign countries do not currently provide effective legal protection for intellectual property and our ability to prevent the unauthorized use of our products in those countries is therefore limited. Our trade secrets may also be stolen, otherwise become known, or be independently developed by competitors.57From time to time, we may need to commence litigation or other legal proceedings in order to assert claims of infringement of our intellectual property; defend our products from piracy; protect our trade secrets or know-how; or determine the enforceability, scope and validity of the propriety rights of others.If we do not obtain or maintain appropriate patent, copyright or trade secret protection for any reason, or cannot fully defend our intellectual property rights in certain jurisdictions, our business and operating results would be harmed. In addition, intellectual property litigation is lengthy, expensive and uncertain. Legal fees related to such litigation will increase our operating expenses and may reduce our net income.We may not be able to realize the potential financial or strategic benefits of the transactions we complete, or find suitable target businesses and technology to acquire.Acquisitions and strategic investments are an important part of our growth strategy. We have completed a significant number of acquisitions in recent years and are currently anticipating the closing of the Ansys Merger in the first half of calendar year 2025. We expect to make additional acquisitions and strategic investments in the future, but we may not find suitable acquisition or investment targets, or we may not be able to consummate desired acquisitions or investments due to unfavorable credit markets, commercially unacceptable terms, failure to obtain regulatory approvals, competitive bid dynamics or other risks, which could harm our operating results. Any acquisitions and strategic investments we may undertake, including the Ansys Merger, are difficult, time-consuming, and pose a number of risks, including, but not limited to:â€¢Potential negative impact on our earnings per share;â€¢Failure of acquired products to achieve projected sales;â€¢Problems in integrating the acquired products with our products; â€¢Difficulties entering into new markets in which we are not experienced or where competitors may have stronger positions;â€¢Potential downward pressure on operating margins due to lower operating margins of acquired businesses, increased headcount costs, and other expenses associated with adding and supporting new products;â€¢Difficulties in retaining and integrating key employees;â€¢Substantial reductions of our cash resources and/or the incurrence of debt, which may be at higher than anticipated interest rates;â€¢Failure to realize expected synergies or cost savings;â€¢Difficulties in integrating or expanding sales, marketing and distribution functions and administrative systems, including IT and human resources systems;â€¢Dilution of our current stockholders through the issuance of common stock as a part of transaction consideration;â€¢Difficulties in negotiating, governing and realizing value from strategic investments; â€¢Assumption of unknown liabilities, including tax, litigation, cybersecurity and commercial-related risks, and the related expenses and diversion of resources;â€¢Incurrence of costs and use of additional resources to remedy issues identified prior to or after an acquisition;â€¢Disruption of ongoing business operations, including diversion of managementâ€™s attention and uncertainty for employees and customers, particularly during the post-acquisition integration process;â€¢Potential negative impacts on our relationships with customers, distributors and business partners; â€¢Exposure to new operational risks, regulations and business customs to the extent acquired businesses are located in regions where we are not currently conducting business; â€¢The need to implement controls, processes and policies appropriate for a public company at acquired companies that may have previously lacked such controls, processes and policies in areas such as cybersecurity, IT, privacy and more;â€¢Negative impact on our net income resulting from acquisition or investment-related costs; and58â€¢Requirements imposed by government regulators in connection with their review of an acquisition, including required divestitures or restrictions on the conduct of our business or the acquired business.In addition, current and future changes to the U.S. and foreign regulatory approval processes and requirements related to acquisitions, including the Ansys Merger, may cause approvals to take longer than anticipated, not be forthcoming or contain burdensome conditions, which may prevent our planned transactions or jeopardize, delay or reduce the anticipated benefits of such transactions, and impede the execution of our business strategy.We have also divested and may in the future divest certain product lines or technologies that no longer fit our long-term strategies, such as the pending Software Integrity Divestiture. Divestitures may adversely impact our business, operating results and financial condition if we are unable to achieve the anticipated benefits or cost savings from such divestitures, or if we are unable to offset impacts from the loss of revenue associated with the divested product lines or technologies. For example, if we decide to sell or otherwise dispose of certain product lines or assets, we may be unable to do so on satisfactory terms within our anticipated timeframe or at all. Further, whether such divestitures are ultimately consummated or not, their pendency could have a number of negative effects on our current business, including potentially disrupting our regular operations, diverting the attention of our workforce and management team and increasing undesired workforce turnover. It could also disrupt existing business relationships, make it harder to develop new business relationships, or otherwise negatively impact the way that we operate our business.If we do not manage the foregoing risks, the transactions that we complete or are unable to complete, including the Ansys Merger and the Software Integrity Divestiture, may have an adverse effect on our business, operating results and financial condition.We may fail to complete the divestiture of our Software Integrity business, and a completed divestiture may disrupt our remaining business or not achieve its intended benefits.On May 5, 2024, we entered into the Purchase Agreement, by and between Synopsys, Inc. and an entity controlled by the Sponsors, pursuant to which we will sell our Software Integrity business. The Software Integrity Divestiture is anticipated to close in the second half of 2024, and a number of risks and challenges may arise in consummating the divestiture, including, among others:â€¢Our or the Sponsorsâ€™ ability to obtain required regulatory approvals for the Software Integrity Divestiture and the timing and conditions for such approvals;â€¢The failure to satisfy customary closing conditions and consummate the Software Integrity Divestiture; andâ€¢The occurrence of any event, change or other circumstance that could give rise to the termination of the Purchase Agreement.In addition, the Software Integrity Divestiture could cause disruption in our remaining business, including potential adverse changes to relationships with customers, employees, suppliers or other parties resulting from the divestiture process. The Software Integrity Divestiture could cause customers to delay or to defer decisions with respect to our Software Integrity business or to end their relationships with us altogether, or otherwise limit our ability to compete for or perform certain contracts or services. The Software Integrity Divestiture may also be disruptive to our regular operations, diverting the attention of our workforce and management team and making the execution of business strategies more difficult, and could result in increased undesired workforce turnover, including of key leaders or other personnel.Even if we are successful at separating and divesting our Software Integrity business, we may not realize some or all of the anticipated benefits from the divestiture with respect to the anticipated performance of our remaining business and the divestiture may have a material adverse effect on our business. The Software Integrity Divestiture may not enhance long-term stockholder value as anticipated, the efforts required to complete the divestiture process may be more costly or time-consuming than expected, or we may not receive any or all of the Conditional Transaction Consideration. Any of the foregoing could adversely affect our remaining business, operating results and financial condition.If we fail to timely recruit and/or retain senior management and key employees globally, our business may be harmed.59We depend in large part upon the services of our senior management team and key employees to drive our future success, and certain of such personnel depart our company from time to time, with the frequency and number of such departures varying widely. For example, we have recently experienced significant changes to our executive leadership team due to planned succession and other departures. The departure of key employees could result in significant disruptions to our operations, including, among other things, adversely affecting the timeliness of our product releases, the successful implementation and completion of our initiatives, the adequacy of our internal control over financial reporting, and our business, operating results and financial condition. To be successful, we must also attract senior management and key employees who join us organically and through acquisitions, such as the Ansys Merger. There are a limited number of qualified engineers. Competition for these individuals and other qualified employees is intense and has increased globally, including in major markets such as Asia. Our employees are often recruited aggressively by our competitors and our customers worldwide. Any failure to recruit and/or retain senior management and key employees could harm our business, operating results and financial condition. Additionally, efforts to recruit such employees could be costly and negatively impact our operating expenses.We issue equity awards from employee equity plans as a key component of our overall compensation. We face pressure to limit the use of such equity-based compensation due to dilutive effects on stockholders. If we are unable to offer attractive compensation packages in the future, it could limit our ability to attract and retain key employees.We may pursue new product and technology initiatives, and if we fail to successfully carry out these initiatives, we could be adversely impacted.As part of the evolution of our business, we have made substantial investments to develop new products and enhancements to existing products through our acquisitions and research and development efforts, such as Synopsys.ai, our AI-driven technology solution. If we are unable to anticipate technological changes in our industry by introducing new or enhanced products in a timely and cost-effective manner, or if we fail to introduce products that meet market demand, we may lose our competitive position, our products may become obsolete, and our business, operating results or financial condition could be adversely affected.Additionally, we have in the past and may in the future invest in efforts to expand into adjacent markets, and these efforts may not be successful. Our success in these markets depends on a variety of factors, including, but not limited to, the following:â€¢Our ability to attract a new customer base, including in industries in which we have less experience;â€¢Our successful development of new sales and marketing strategies to meet customer requirements;â€¢Our ability to accurately predict, prepare for and promptly respond to technological developments in new fields;â€¢Our ability to compete with new and existing competitors in these new markets, many of which may have more financial resources, industry experience, brand recognition, relevant intellectual property rights or established customer relationships than we currently do;â€¢Our ability to skillfully balance our investment in adjacent markets with investment in our existing products and services; andâ€¢Our ability to attract and retain employees with expertise in new fields.Difficulties in any of our new product development efforts or our efforts to enter adjacent markets, including as a result of delays or disruptions, or export control restrictions, could adversely affect our business, operating results and financial condition.We may have to invest more resources in research and development than anticipated, which could increase our operating expenses and negatively affect our operating results.We devote substantial resources to research and development. New competitors, technological advances in the semiconductor industry or by competitors, our acquisitions, our entry into new markets or other competitive factors may require us to invest significantly greater resources than we anticipate. If we are required to invest significantly greater resources than anticipated without a corresponding increase in revenue, our operating results could decline. If customers reduce or slow the need to upgrade or enhance their product offerings, our revenue and operating 60results may be adversely affected. Additionally, our periodic research and development expenses may be independent of our level of revenue, which could negatively impact our financial results. New products may not adequately address the changing needs of the marketplace. New software products may contain undetected errors, defects or vulnerabilities. The occurrence of any defects or errors in our products could result in lost or delayed market acceptance and sales of our products, delays in payment by customers, loss of customers or market share, product returns, damage to our reputation, diversion of our resources, increased service and warranty expenses or financial concessions, increased insurance costs and potential liability for damages. Finally, there can be no guarantee that our research and development investments will result in products that create additional revenue.Product errors or defects could expose us to liability and harm our reputation and we could lose market share.Software products frequently contain errors or defects, especially when first introduced, when new versions are released, or when integrated with technologies developed by acquired companies. Product errors, including those resulting from third-party suppliers, could affect the performance or interoperability of our products, could delay the development or release of new products or new versions of products and could adversely affect market acceptance or perception of our products. In addition, any allegations of manufacturability issues resulting from use of our IP products could, even if untrue, adversely affect our reputation and our customersâ€™ willingness to license IP products from us. Any such errors or delays in releasing new products or new versions of products or allegations of unsatisfactory performance could cause us to lose customers, increase our service costs, subject us to liability for damages and divert our resources from other tasks, any one of which could materially and adversely affect our business, operating results and financial condition.Our hardware products, which primarily consist of prototyping and emulation systems, subject us to distinct risks.The growth in sales of our hardware products subjects us to several risks, including, but not limited to:â€¢Increased dependence on a sole supplier for certain hardware components, which may reduce our control over product quality and pricing and may lead to delays in production and delivery of our hardware products, should our supplier fail to deliver sufficient quantities of acceptable components in a timely fashion; â€¢Increasingly variable revenue and less predictable revenue forecasts, due to fluctuations in hardware revenue, which is recognized upfront upon shipment, as opposed to most sales of software products for which revenue is recognized over time;â€¢Potential reductions in overall margins, as the gross margin for our hardware products, is typically lower than those of our software products;â€¢Longer sales cycles, which create risks of insufficient, excess or obsolete inventory and variations in inventory valuation, which can adversely affect our business, operating results and financial condition;â€¢Decreases or delays in customer purchases in favor of next-generation releases or competitive products, which may lead to excess or obsolete inventory or require us to discount our older hardware products;â€¢Longer warranty periods than those of our software products, which may require us to replace hardware components under warranty, thus increasing our costs; andâ€¢Potential impacts on our supply chain, including the effects of sustained global inflationary pressures and interest rates, and a prolonged global semiconductor shortage.From time to time, we are subject to claims that our products infringe on third-party intellectual property rights.We are from time to time subject to claims alleging our infringement of third-party intellectual property rights, including patent rights. Under our customer agreements and other license agreements, we agree in many cases to indemnify our customers if our products are alleged to infringe on a third partyâ€™s intellectual property rights. Infringement claims have in the past and could in the future result in costly and time-consuming litigation, require us to enter into royalty arrangements, subject us to damages or injunctions restricting our sale of products, invalidate a patent or family of patents, require us to refund license fees to our customers or to forgo future payments, or require us to redesign certain of our products, any one of which could harm our business and operating results.61We may not be able to continue to obtain licenses to third-party software and intellectual property on reasonable terms or at all, which may disrupt our business and harm our financial results.We license third-party software and other intellectual property for use in product research and development and, in several instances, for inclusion in our products. We also license third-party software, including the software of our competitors, to test the interoperability of our products with other industry products and in connection with our professional services. These licenses may need to be renegotiated or renewed from time to time, or we may need to obtain new licenses in the future. Third parties may stop adequately supporting or maintaining their technology, or they or their technology may be acquired by our competitors. If we are unable to obtain licenses to these third-party software and intellectual property on reasonable terms or at all, we may not be able to sell the affected products, our customersâ€™ use of the products may be interrupted, or our product development processes and professional services offerings may be disrupted, which could in turn harm our financial results, our customers, and our reputation.The inclusion of third-party intellectual property in our products can also subject us and our customers to infringement claims. We may not be able to sufficiently limit our potential liability contractually. Regardless of outcome, infringement claims may require us to use significant resources and may divert managementâ€™s attention from the operation of our business.Some of our products and technology, including those we acquire, may include software licensed under open source licenses. Some open source licenses could require us, under certain circumstances, to make available or grant licenses to any modifications or derivative works we create based on the open source software. The risks associated with open source usage may not be eliminated despite our best efforts and may, if not properly addressed, result in unanticipated obligations that harm our business.In preparing our financial statements we make certain assumptions, judgments and estimates that affect amounts reported in our consolidated financial statements, which, if notÂ accurate, may significantly impact our financial results.We make assumptions, judgments and estimates for a number of items, including the fair value of financial instruments, goodwill, long-lived assets and other intangible assets, the realizability of deferred tax assets, the recognition of revenue and the fair value of stock awards. We also make assumptions, judgments and estimates in determining the accruals for employee-related liabilities, including commissions and variable compensation, and in determining the accruals for uncertain tax positions, valuation allowances on deferred tax assets, allowances for credit losses, and legal contingencies. These assumptions, judgments and estimates are drawn from historical experience and various other factors that we believe are reasonable under the circumstances as of the date of the consolidated financial statements.Â Actual results could differ materially from our estimates, and such differences could significantly impact our financial results.Liquidity requirements in our U.S. operations may require us to raise cash in uncertain capital markets, which could negatively affect our financial condition.We expect that the pending Ansys Merger is likely to result in a material increase in our debt and liquidity needs that will impact our capital needs. We anticipate that the funds needed to fund the cash portion of the Ansys Merger consideration and to pay related transaction fees and expenses will be derived from a combination of available cash on hand and third-party debt financing. As of JulyÂ 31, 2024, approximately 53% of our worldwide cash and cash equivalents balance is held by our international subsidiaries. We intend to fund the Ansys Merger, pay related transaction fees and

expenses and meet our U.S. cash spending needs primarily through our existing U.S. cash balances, ongoing U.S. cash flows and third-party debt financing, which will include a combination of available credit under our Term Loan Agreement, Revolving Credit Agreement, the Bridge Commitment and/or one or more issuances of senior unsecured notes. Our ability to obtain any such new debt financing will depend on, among other factors, prevailing market conditions and other factors beyond our control. We may be required to incur debt at higher than anticipated interest rates, access other funding sources or repatriate cash, any of which could negatively affect our operating results, capital structure or the market price of our common stock.Risks Related to the Ansys Merger62We may fail to complete the Ansys Merger or may not complete it on the terms described herein or in our other filings with the SEC.It is currently anticipated that we will complete the Ansys Merger in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including, among other things, the expiration or termination of the waiting period under the HSR Act, the clearance of the Ansys Merger under certain other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. As a result, the possible timing and likelihood of completion are uncertain and, accordingly, there can be no assurance that the Ansys Merger will be completed on the anticipated schedule, if at all. Any delay in completing the acquisition could cause us not to realize some or all of the anticipated benefits when expected, if at all. If the Ansys Merger is not completed, we could be subject to a number of risks that may adversely affect our business and operating results, including, among other things: â€¢our stock price could decline to the extent it reflects an assumption that we will complete the Ansys Merger;â€¢our incurrence of significant acquisition costs that we would be unable to recoup;â€¢under certain specified circumstances we could be required to pay Ansys a termination fee of $1.5 billion; andâ€¢negative publicity and other negative impacts resulting from failure to complete the Ansys Merger.The Ansys Merger is subject to the receipt of governmental approvals that may impose conditions that could have an adverse effect on us or, if not obtained, could prevent completion of the Ansys Merger.Completion of the Ansys Merger is conditioned upon the receipt of governmental approvals, including certain antitrust and foreign investment approvals. There can be no assurance that these approvals will be obtained and that the other conditions to completing the Ansys Merger will be satisfied. In addition, the governmental authorities from which these approvals are required may impose conditions on the completion of the Ansys Merger or require changes to the terms of the Ansys Merger or agreements to be entered into in connection with the Ansys Merger. Such conditions or changes and the process of obtaining these approvals could have the effect of delaying or impeding completion of the Ansys Merger or of imposing additional costs or limitations on us following completion of the Ansys Merger, any of which might have an adverse effect on our business, operating results and financial condition.Failure to realize the benefits expected from the Ansys Merger could adversely affect our business, operating results and financial condition. The anticipated benefits we expect from the Ansys Merger are based on projections and assumptions about our combined business with Ansys, which may not materialize as expected or which may prove to be inaccurate. Our business, operating results and financial condition could be adversely affected if we are unable to realize the anticipated benefits from the Ansys Merger on a timely basis, if at all, including, among other things, realizing the anticipated synergies from the Ansys Merger in the anticipated amounts or within the anticipated timeframes or cost expectations, if at all. Achieving the benefits of the Ansys Merger will depend, in part, on our ability to integrate the business and operations of Ansys successfully and efficiently with our business. The challenges involved in this integration, which may be complex and time-consuming, include, among others, the following:â€¢preserving customer and other important relationships of Ansys and attracting new business and operational relationships;â€¢coordinating and integrating independent research and development and engineering teams across technologies and product platforms to enhance product development while reducing costs;â€¢integrating financial forecasting and controls, procedures and reporting cycles;â€¢consolidating and integrating corporate, IT, finance and administrative infrastructures;â€¢coordinating sales and marketing efforts to effectively position the combined companyâ€™s capabilities and the direction of product development;â€¢integrating Ansysâ€™ operations and product lines;63â€¢meeting obligations that we will have to counterparties of Ansys that arise as a result of the change in control of Ansys; andâ€¢integrating employees and related HR systems and benefits, maintaining employee productivity and retaining key employees.If we do not successfully manage these issues and the other challenges inherent in integrating an acquired business, then we may not achieve the anticipated benefits of the Ansys Merger on our anticipated timeframe, if at all, and our business, revenue, expenses, operating results, financial condition and stock price could be materially adversely affected. The successful completion of the Ansys Merger and the integration of the Ansys business will require significant management attention both before and after the completion of the Ansys Merger, and may divert the attention of management from our normal business operations.As a result of the Ansys Merger, we anticipate that the scope and size of our operations and business will substantially change and will result in certain incremental risks to us, including increased competition. We may not realize the full expected benefits of the Ansys Merger.We anticipate that the Ansys Merger will substantially expand the scope and size of our business by adding substantial assets and operations to our existing business. The anticipated future growth of our business will impose significant added responsibilities on management, including, among other things, the need to identify, recruit, train and integrate additional employees. Our senior managementâ€™s attention may be diverted from the management of our business and its daily operations to the completion of the Ansys Merger and the integration of the assets acquired in the Ansys Merger. Further, the Ansys Merger could also create uncertainty for our or Ansys' employees and customers, particularly during the post-acquisition integration process. It could also disrupt existing business relationships, make it more difficult to develop new business relationships, or otherwise negatively impact the way that we operate our business. We also anticipate that the Ansys Merger will result in increased competition. Ansys operates in a highly competitive industry, and is facing increasing competition for its products and services, in particular in simulation and analysis. Additionally, both Ansys and Synopsys compete with companies that increasingly provide integrated EDA and simulation and analysis offerings. These competitive pressures may result in decreased sales volumes, price reductions and/or increased operating costs, and could result in lower revenues, margins and net income for the combined company. These impacts could also result in our failure to realize expected synergies or cost savings as a result of the Ansys Merger. For more on risks relating to competition in the EDA industry and other industries, see â€œThe growth of our business depends primarily on the semiconductor and electronics industriesâ€ and â€œWe operate in highly competitive industries, and if we do not continue to meet our customersâ€™ demand for innovative technology at lower costs, our products may not be competitive or may become obsolete.â€Our ability to manage our business and growth will require us to continue to improve our operational, financial and management controls, reporting systems and procedures. We may also encounter risks, costs and expenses associated with any undisclosed or other unanticipated liabilities and use more cash and other financial resources on integration and implementation activities than we expect. We may not be able to integrate the Ansys business into our existing operations on our anticipated timelines or realize the full expected economic benefits of the Ansys Merger, which may have a material adverse effect on our business, operating results and financial condition.In addition, the completion of the Ansys Merger may heighten the potential adverse effects on our business, operating results or financial condition described elsewhere in the Risk Factors in this Quarterly Report.Our significant debt may limit our financial flexibility following the Ansys Merger.We expect to incur a substantial amount of debt in connection with the Ansys Merger and have entered into the Bridge Commitment Letter and the Term Loan Agreement for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. We expect to use a portion of the proceeds from the facilities to repay Ansysâ€™ existing credit facility substantially concurrently with the completion of the Ansys Merger.Our ability to obtain any such new debt financing will depend on, among other factors, prevailing market conditions and other factors beyond our control. We cannot assure you that we will be able to obtain new debt financing on terms acceptable to us or at all, and any such failure could materially adversely affect our operations and financial condition. Our obligation to complete the Ansys Merger is not conditioned upon the receipt of any financing.64Following the Ansys Merger, the substantial indebtedness incurred in connection with the Ansys Merger could have adverse effects on our business, operating results and financial condition, including, among other things:â€¢increasing our vulnerability to changing economic, regulatory and industry conditions;â€¢limiting our ability to compete and our flexibility in planning for, or reacting to, changes in our business and the industry;â€¢placing us at a competitive disadvantage compared to our competitors with less indebtedness;â€¢increasing our interest expense and potentially requiring us to dedicate a substantial portion of our cash flow from operations to payments on our debt, thereby reducing the availability of cash to fund our business needs;â€¢limiting our ability to return equity through our stock repurchase program or pay dividends to our stockholders; andâ€¢limiting our ability to borrow additional funds in the future to fund growth, acquisitions, working capital, capital expenditures or other purposes.Our ability to make scheduled payments of the principal of, to pay interest on, or to refinance our indebtedness following the Ansys Merger will depend on, among other factors, our financial position and performance as well as prevailing market conditions and other factors beyond our control. Our combined business may not continue to generate cash flow from operations in the future sufficient to service our debt and make necessary capital expenditures and meet other liquidity needs. If we are unable to generate such cash flow, we may be required to adopt one or more alternatives, such as selling assets, restructuring debt or obtaining additional equity capital or debt refinancing on terms that may be onerous. We may not be able to engage in any of these activities or engage in these activities on desirable terms, which could result in a default on our debt obligations which, if not cured or waived, could accelerate the repayment obligations under all of our outstanding debt, which could have a material adverse effect on our business, operating results or financial condition.In addition, the level and quality of our earnings, operations, business and management, among other things, will impact the determination of our credit ratings by credit rating agencies. A decrease in the ratings assigned to us may negatively impact our access to the debt capital markets and increase our cost of borrowing. There can be no assurance that we will be able to obtain any future required financing on acceptable terms, if at all. In addition, there can be no assurance that we will be able to maintain the current credit worthiness or prospective credit rating of the combined company. Any actual or anticipated changes, or adverse conditions in the debt capital markets, could: â€¢adversely affect the trading price of, or market for, our debt securities;â€¢increase interest expense under our credit facilities;â€¢increase the cost of, and adversely affect our ability to refinance, our existing debt; andâ€¢adversely affect our ability to raise additional debt. The covenants contained in the agreements governing our indebtedness following the Ansys Merger may impose restrictions on us and certain of our subsidiaries that may affect our ability to operate our businesses.The agreements that will govern our indebtedness following the Ansys Merger, including any indebtedness to be incurred pursuant to the Bridge Commitment Letter (or any indebtedness that may refinance or replace the Bridge Commitment as set forth in the Bridge Commitment Letter) and the Term Loan Agreement, will contain various affirmative and negative covenants. Such covenants may, subject to certain significant exceptions, restrict our ability and the ability of certain of our subsidiaries after the Ansys Merger to, among other things, engage in mergers, consolidations and acquisitions, grant liens and incur debt at subsidiaries. In addition, such agreements also contain financial covenants that will require us to maintain certain financial ratios. Our ability to comply with these provisions after the Ansys Merger may be affected by events beyond our control. Failure to comply with these covenants could result in an event of default, which, if not cured or waived, could accelerate repayment obligations under all of our outstanding debt, which could have a material adverse effect on our business, operating results or financial condition.65Legal and Regulatory RisksOur results could be adversely affected by a change in our effective tax rate, changes in our geographical earnings mix, unfavorable government reviews of our tax returns, material differences between our forecasted and actual annual effective tax rates, or future changes to our tax structure.Our operations are subject to income and transaction taxes in the U.S. and in multiple foreign jurisdictions. Because we have a wide range of statutory tax rates in the multiple jurisdictions in which we operate, any changes in our geographical earnings mix, including those resulting from our intercompany transfer pricing or from changes in the rules governing transfer pricing, could materially impact our effective tax rate. Furthermore, a change in the tax law of the jurisdictions where we do business, including an increase in tax rates, an adverse change in the treatment of an item of income or expense, or limitations on our ability to utilize tax credits, could result in a material increase in our tax expense and impact our financial position and cash flows. The upcoming 2024 U.S. elections create additional uncertainty regarding the potential for new tax legislation that could have a material impact on future tax expenses.On December 22, 2017, the Tax Cuts and Jobs Act (the Tax Act) was enacted, which significantly changed prior U.S. tax law and includes numerous provisions that affect our business. The Tax Act includes certain provisions that began to affect our income in the first quarter of fiscal 2019, while other sections of the Tax Act and related regulations began to affect our business in the first quarter of fiscal 2023. One of these provisions includes the requirement to capitalize and amortize research and development expenditures instead of expensing such expenditures as incurred. This results in a significant increase to our cash tax liability, but our effective tax rate decreases due to the foreign derived intangible income deduction. Future regulatory guidance pertaining to the capitalization of research and development expenditures, including potential legislation remains uncertain and may materially affect our financial position. Additionally, certain provisions of the Tax Act are set to change or expire beginning in fiscal 2026, which could have a material impact on future tax expenses.On August 16, 2022, the Inflation Reduction Act of 2022 (the IR Act) was enacted in the U.S. The IR Act includes a 15% minimum tax rate, effective in our fiscal 2024, as well as tax credit incentives for reductions in greenhouse gas emissions. The details of the computation of the tax and implementation of the incentives will be subject to regulations to be issued by the U.S. Department of the Treasury. On August 9, 2022, the CHIPS and Science Act of 2022 (CHIPS Act) was enacted in the U.S. to provide certain financial incentives to the semiconductor industry, primarily for manufacturing activities within the U.S. We are continuing to monitor the IR Act and CHIPS Act and related regulatory developments to evaluate their potential impact on our business and operating results.On October 8, 2021, the Organization for Economic Co-operation and Development (OECD) announced the OECD/G20 Inclusive Framework on Base Erosion and Profit Shifting (Framework) which agreed to a two-pillar solution to address tax challenges arising from digitalization of the economy. On December 20, 2021, the OECD released Pillar Two Model Rules (Pillar Two) defining the global minimum tax rules, which contemplate a 15% minimum tax rate. The OECD continues to release additional guidance, including Administrative Guidance on how the Pillar Two rules should be interpreted and applied and many countries are passing legislation to comply with Pillar Two. The Framework calls for law enactment by OECD and G20 members to take effect in 2024 and 2025. These changes, when enacted by various countries in which we do business, may increase our taxes in these countries. Various countries have started to enact new laws related to Pillar Two, including certain new laws effective beginning in our fiscal year 2025. Changes to these and other areas in relation to international tax reform, including future actions taken by foreign governments, could increase uncertainty and may adversely affect our tax rate and cash flow in future years.Our income and non-income tax filings are subject to review or audit by the Internal Revenue Service and state, local and foreign taxing authorities. We exercise significant judgment in determining our worldwide provision for income taxes and, in the ordinary course of our business, there may be transactions and calculations where the ultimate tax determination is uncertain. We may also be liable for potential tax liabilities of businesses we acquire. The final determination in an audit may be materially different than the treatment reflected in our historical income tax provisions and accruals. An assessment of additional taxes because of an audit could adversely affect our income tax provision and net income in the periods for which that determination is made. For further discussion on our ongoing audits, see Note 20. Income Taxes of the Notes to Consolidated Financial Statements in this Quarterly Report under the heading "Non-U.S. Examinations."We maintain significant deferred tax assets related to certain tax credits and capitalized research and development expenditures. Our ability to use these deferred tax assets is dependent upon having sufficient future taxable income in the relevant jurisdiction and in the case of foreign tax credits, how such credits are treated under current and 66potential future tax law. Changes to tax laws and regulations, and changes in our forecasts of future income could result in an adjustment to the deferred tax asset and a related charge to earnings that could materially affect our financial results.Our business is subject to evolving corporate governance and public disclosure regulations and expectations, including with respect to environmental, social and governance matters, that could expose us to numerous risks.We are subject to changing rules and regulations promulgated by a number of governmental and self-regulatory organizations, including, among others, the SEC, the Nasdaq Stock Market and the Financial Accounting Standards Board (FASB). These rules and regulations continue to evolve in scope and complexity and many new requirements have been created in response to laws enacted by Congress, making compliance difficult and uncertain. In addition, regulators, customers, investors, employees and other stakeholders are increasingly focused on environmental, social and governance (ESG) matters and related disclosures. These changing rules, regulations and stakeholder expectations have resulted in, and are likely to continue to result in, increased general and administrative expenses and increased management time and attention spent complying with or meeting such regulations and expectations. For example, developing and acting on ESG initiatives, and collecting, measuring, and reporting ESG information and metrics can be costly, difficult and time consuming and is subject to evolving reporting standards, including the SECâ€™s climate-related reporting requirements, the recently enacted California climate-related disclosure laws, and the European Union's Corporate Sustainability Reporting Directive. We may also communicate certain initiatives and goals regarding environmental matters, diversity, responsible sourcing, social investments and other ESG matters in our SEC filings or in other public disclosures. These initiatives and goals could be difficult and expensive to implement, the technologies needed to implement them may not be cost effective and may not advance at a sufficient

pace, and ensuring the accuracy, adequacy, or completeness of the disclosure of our ESG initiatives can be costly, difficult and time consuming. Further, statements about our ESG initiatives and goals, and progress against those goals, may be based on standards for measuring progress that are still developing, internal controls and processes that continue to evolve, and assumptions that are subject to change. We could also face scrutiny from certain stakeholders for the scope or nature of such initiatives or goals, or for any revisions to these goals. If our ESG-related data, processes and reporting are incomplete or inaccurate, or if we fail to achieve progress with respect to our ESG goals on a timely basis, or at all, our business, financial performance and growth could be adversely affected.Changes in the U.S. generally accepted accounting principles (U.S. GAAP) could adversely affect our financial results and may require significant changes to our internal accounting systems and processes.We prepare our consolidated financial statements in conformity with U.S. GAAP. These principles are subject to interpretation by the FASB, the SEC and various bodies formed to interpret and create appropriate accounting principles and guidance. The FASB periodically issues new accounting standards on a variety of topics, including, for example, revenue recognition and accounting for leases. These and other such standards generally result in different accounting principles, which may significantly impact our reported results or could result in variability of our financial results.We may be subject to litigation proceedings that could harm our business.We may be subject to legal claims or regulatory matters involving stockholder, consumer, employment, customer, supplier, competition and other issues on a global basis. Litigation is subject to inherent uncertainties, and unfavorable rulings could occur. An unfavorable ruling could include monetary damages or, in cases for which injunctive relief is sought, an injunction prohibiting us from manufacturing or selling one or more products. If we were to receive an unfavorable ruling on a matter, our business and operating results could be materially harmed. Further information regarding certain of these matters is contained in Part II, ItemÂ 1, Legal Proceedings of this Quarterly Report.There are inherent limitations on the effectiveness of our controls and compliance programs.Regardless of how well designed and operated it is, a control system can provide only reasonable assurance that its objectives will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. Our compliance programs and compliance training for employees may not prevent our employees, contractors or agents from breaching or circumventing our policies or 67violating applicable laws and regulations. Failure of our control systems and compliance programs to prevent error, fraud or violations of law could have a material adverse impact on our business.General RisksOur investment portfolio may be impaired by any deterioration of capital markets.From time to time, our cash equivalent and short-term investment portfolio consists of investment-grade U.S. government agency securities, asset-backed securities, corporate debt securities, commercial paper, certificates of deposit, money market funds, municipal securities and other securities and bank deposits. Our investment portfolio carries both interest rate risk and credit risk and may be negatively impacted by deteriorating economic conditions, sustained global inflationary pressures and interest rates and bank failures. Fixed rate debt securities may have their market value adversely impacted due to a credit downgrade or a rise in interest rates, while floating rate securities may produce less income than expected if interest rates fall or a credit downgrade occurs.Our future investment income may fall short of expectations due to changes in interest rates or if the decline in fair value of investments held by us is judged to be other-than-temporary. In addition, we may suffer losses in principal if we are forced to sell securities that decline in market value due to changes in the issuerâ€™s credit quality or changes in interest rates.Catastrophic events and the effects of climate change, pandemics or other unexpected events may disrupt our business and harm our operating results.Due to the global nature of our business, our operating results may be negatively impacted by catastrophic events and the effects of climate change, pandemics, such as the recent COVID-19 pandemic, or other unexpected events throughout the world. We rely on a global network of infrastructure applications, enterprise applications and technology systems for our development, marketing, operational, support and sales activities. A disruption or failure of these systems in the event of a major earthquake, fire, extreme temperatures, drought, flood, telecommunications failure, cybersecurity attack, terrorist attack, epidemic or pandemic, or other catastrophic or climate change-related events could cause system interruptions, delays in our product development and loss of critical data and could prevent us from fulfilling our customersâ€™ orders. In particular, our sales and infrastructure are vulnerable to regional or worldwide health conditions, including the effects of the outbreak of contagious diseases, such as the government-imposed restrictions that curtailed global economic activity and caused substantial volatility in global financial markets during the COVID-19 pandemic. Moreover, our corporate headquarters, a significant portion of our research and development activities, our data centers, and certain other critical business operations are located in California, near major earthquake faults and sites of recent wildfires, which may become more frequent, along with other extreme weather events, due to climate change. A catastrophic event or other extreme weather event that results in the destruction or disruption of our data centers or our critical business or IT systems would severely affect our ability to conduct normal business operations and, as a result, our operating results would be adversely affected.68ItemÂ 2.Unregistered Sales of Equity Securities and Use of ProceedsThe table below sets forth information regarding our repurchases of our common stock during the three months ended AugustÂ 3, 2024:Period (1)Â TotalÂ numberofÂ sharespurchased (2)AveragepriceÂ paidperÂ share (2)TotalnumberÂ ofsharespurchasedasÂ partÂ ofpubliclyannouncedprograms (2)MaximumÂ approximate dollarvalueÂ ofÂ sharesthatÂ mayÂ yetÂ bepurchasedunderÂ theprograms(1)Month #1MayÂ 5, 2024 through JuneÂ 8, 2024â€”Â $â€”Â â€”Â $194,276,393Â Month #2JuneÂ 9, 2024 through JulyÂ 6, 2024â€”Â $â€”Â â€”Â $194,276,393Â Month #3JulyÂ 7, 2024 through AugustÂ 3, 2024â€”Â $â€”Â â€”Â $194,276,393Â Totalâ€”Â $â€”Â â€”Â $194,276,393Â (1)Â Â Â Â As of AugustÂ 3, 2024, $194.3 million remained available for future repurchases under our stock repurchase program (the Program). In connection with the pending Ansys Merger, we have suspended the Program until we reduce our expected debt levels.(2) Amounts are calculated based on the settlement date.See Note 15. Stock Repurchase Program of the Notes to Condensed Consolidated Financial StatementsÂ in this Quarterly Report for more information on the Program.ItemÂ 5.Other InformationInsider Adoption or Termination of Trading ArrangementsNone of our directors or officers have informed us of the adoption or termination of a "Rule 10b5-1 trading arrangement" or a "non-Rule 10b5-1 trading arrangement" (as those terms are defined in Item 408(c) of Regulation S-K) during the quarterly period covered by this Quarterly Report.69ItemÂ 6.ExhibitsExhibitNumberÂ Incorporated By ReferenceFiledHerewithExhibitÂ DescriptionFormFileÂ No.ExhibitFilingÂ Date2.1Agreement and Plan of Merger, dated as of January 15, 2024, by and among Synopsys, Inc., ANSYS, Inc. and ALTA Acquisition Corp. 8-K000-198072.11/16/20243.1Amended and Restated Certificate of Incorporation10-Q000-198073.19/15/20033.2Amended and Restated Bylaws8-K000-198073.13/25/20244.1Specimen Common Stock CertificateS-133-451384.32/24/1992(effectiveÂ date)31.1Certification of Chief Executive Officer pursuant to RuleÂ 13a-14(a)Â or RuleÂ 15d-14(a)Â of the Exchange ActX31.2Certification of Chief Financial Officer pursuant to RuleÂ 13a-14(a)Â or RuleÂ 15d-14(a)Â of the Exchange ActX32.1*Certification of Chief Executive Officer and Chief Financial Officer furnished pursuant to RuleÂ 13a-14(b)Â or RuleÂ 15d-14(b)Â of the Exchange Act and SectionÂ 1350 of ChapterÂ 63 of TitleÂ 18 of the United States CodeX101The following financial statements from Synopsys' Quarterly Report on Form 10-Q for the quarter ended August 3, 2024, formatted in Inline XBRL: (i) Condensed Consolidated Balance Sheets as of August 3, 2024 and October 28, 2023, (ii) Condensed Consolidated Statements of Income for the Three and Nine Months Ended August 3, 2024 and July 29, 2023, (iii) Condensed Consolidated Statements of Comprehensive Income for the Three and Nine Months Ended August 3, 2024 and July 29, 2023, (iv) Condensed Consolidated Statements of Stockholders' Equity at August 3, 2024 and July 29, 2023, (v) Condensed Consolidated Statements of Cash Flows for the Nine Months Ended August 3, 2024 and July 29, 2023 and (vi) the Notes to Condensed Consolidated Financial Statements, tagged as blocks of text and including detailed tagsX104Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)* This exhibit is furnished with this Quarterly Report and is not deemed filed with the Securities and Exchange Commission and is not incorporated by reference in any filing of Synopsys, Inc. under the Securities Act of 1933, as 70amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date hereof and irrespective of any general incorporation language contained in such filing.71SIGNATURESPursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this Quarterly Report on Form 10-Q to be signed on its behalf by the undersigned thereunto duly authorized.SYNOPSYS, INC.Date: August 23, 2024By:/s/Â Â Â Â SHELAGH GLASERShelagh GlaserChief Financial Officer(Principal Financial Officer)72 EX-31.1 2 ex311073124.htm EX-31.1 DocumentExhibitÂ 31.1CERTIFICATIONI, Sassine Ghazi, certify that:1.I have reviewed this Quarterly Report on FormÂ 10-Q of Synopsys,Â Inc.;2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.The registrantâ€™s other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act RulesÂ 13a-15(e)Â and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act RulesÂ 13a-15(f)Â and 15d-15(f)) for the registrant and have:(a)Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;(b)Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;(c)Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and(d)Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5.The registrantâ€™s other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):(a)All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and(b)Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: August 23, 2024Â /s/ Sassine GhaziÂ Â Â Sassine GhaziÂ Â President and Chief Executive OfficerÂ Â (Principal Executive Officer) EX-31.2 3 ex312073124.htm EX-31.2 DocumentExhibitÂ 31.2CERTIFICATIONI, Shelagh Glaser, certify that:1.I have reviewed this Quarterly Report on FormÂ 10-Q of Synopsys,Â Inc.;2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.The registrantâ€™s other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act RulesÂ 13a-15(e)Â and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act RulesÂ 13a-15(f)Â and 15d-15(f)) for the registrant and have:(a)Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;(b)Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;(c)Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and(d)Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5.The registrantâ€™s other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):(a)All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and(b)Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: August 23, 2024Â /s/ Shelagh GlaserÂ Â Â Shelagh GlaserÂ Â Chief Financial OfficerÂ Â (Principal Financial Officer) EX-32.1 4 ex321073124.htm EX-32.1 DocumentExhibitÂ 32.1Certification Pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002 (Subsections (a)Â and (b)Â of SectionÂ 1350, Chapter 63 of Title 18, United States Code)Pursuant to the requirement set forth in RuleÂ 13a-14(b)Â of the Securities Exchange Act of 1934, as amended (the â€œExchange Actâ€) and SectionÂ 1350, Chapter 63 of Title 18 of the United States Code (18 U.S.C-Â§1350), each of Sassine Ghazi, President and Chief Executive Officer of Synopsys,Â Inc., a Delaware corporation (the â€œCompanyâ€) and Shelagh Glaser, Chief Financial Officer of the Company, does hereby certify, to such officerâ€™s knowledge that:The Quarterly Report on FormÂ 10-Q for the fiscal quarter ended AugustÂ 3, 2024 (the â€œFormÂ 10-Qâ€) to which this Certification is attached as ExhibitÂ 32.1 fully complies with the requirements of SectionÂ 13(a)Â or 15(d)Â of the Exchange Act. The information contained in the FormÂ 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.IN WITNESS WHEREOF, the undersigned have set their hands hereto as of AugustÂ 23, 2024.Â /s/ Sassine GhaziSassine GhaziPresident and Chief Executive Officer/s/ Shelagh GlaserShelagh GlaserChief Financial OfficerThe foregoing certification is being furnished solely pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002 (subsections (a)Â and (b)Â of SectionÂ 1350, Chapter 63 of Title 18, United States Code) and is not deemed filed with the Securities and Exchange Commission as part of the FormÂ 10-Q or as a separate disclosure document and is not to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the FormÂ 10-Q), irrespective of any general incorporation language contained in such filing. EX-101.SCH 5 snps-20240731.xsd XBRL TAXONOMY EXTENSION SCHEMA DOCUMENT 0000001 - Document - COVER link:presentationLink link:calculationLink link:definitionLink 9952151 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETS link:presentationLink link:calculationLink link:definitionLink 9952152 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETS (PARENTHETICAL) link:presentationLink link:calculationLink link:definitionLink 9952153 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF INCOME link:presentationLink link:calculationLink link:definitionLink 9952153 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF INCOME link:presentationLink link:calculationLink link:definitionLink 9952154 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME link:presentationLink link:calculationLink link:definitionLink 9952155 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (PARENTHETICAL) link:presentationLink link:calculationLink link:definitionLink 9952156 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERSâ€™ EQUITY link:presentationLink link:calculationLink link:definitionLink 9952157 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS link:presentationLink link:calculationLink link:definitionLink 9952158 - Disclosure - Description of Business link:presentationLink link:calculationLink link:definitionLink 9952159 - Disclosure - Summary of Significant Accounting Policies and Basis of Presentation link:presentationLink link:calculationLink link:definitionLink 9952160 - Disclosure - Discontinued Operations link:presentationLink link:calculationLink link:definitionLink 9952161 - Disclosure - Pending Acquisition of Ansys link:presentationLink link:calculationLink link:definitionLink 9952162 - Disclosure - Business Combinations link:presentationLink link:calculationLink link:definitionLink 9952163 - Disclosure - Revenue link:presentationLink link:calculationLink link:definitionLink 9952164 - Disclosure - Goodwill and Intangible Assets link:presentationLink link:calculationLink link:definitionLink 9952165 - Disclosure - Balance Sheet Components link:presentationLink link:calculationLink link:definitionLink 9952166 - Disclosure - Financial Assets and Liabilities link:presentationLink link:calculationLink link:definitionLink 9952167 - Disclosure - Fair Value Measurements link:presentationLink link:calculationLink link:definitionLink 9952168 - Disclosure - Bridge Commitment Letter, Term Loan and Revolving Credit Facilities link:presentationLink link:calculationLink link:definitionLink 9952169 - Disclosure - Leases link:presentationLink link:calculationLink link:definitionLink 9952170 - Disclosure - Redeemable Non-controlling Interest link:presentationLink link:calculationLink link:definitionLink 9952171 - Disclosure - Accumulated Other

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link:calculationLink link:definitionLink 9954500 - Disclosure - Financial Assets and Liabilities - Cash Equivalents and Short-Term Investments (Details) link:presentationLink link:calculationLink link:definitionLink 9954501 - Disclosure - Financial Assets and Liabilities - Schedule of Maturity for Short-Term Available for Sale Securities (Details) link:presentationLink link:calculationLink link:definitionLink 9954502 - Disclosure - Financial Assets and Liabilities - Schedule of Cash, Cash Equivalents and Restricted Cash (Details) link:presentationLink link:calculationLink link:definitionLink 9954503 - Disclosure - Financial Assets and Liabilities - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954504 - Disclosure - Financial Assets and Liabilities - Effects on Changes in Fair Values of Non-Designated Forward Contracts (Details) link:presentationLink link:calculationLink link:definitionLink 9954505 - Disclosure - Financial Assets and Liabilities - Notional Amounts of Derivative Instruments (Details) link:presentationLink link:calculationLink link:definitionLink 9954506 - Disclosure - Financial Assets and Liabilities - Fair Values of Derivative Instrument Designated and Non-Designated as Hedging Instruments in Unaudited Condensed Consolidated Balance Sheet (Details) link:presentationLink link:calculationLink link:definitionLink 9954507 - Disclosure - Financial Assets and Liabilities - Unaudited Condensed Consolidated Statement of Operations Location and Amount of Gains and Losses on Derivative Instrument Fair Values for Designated Hedge Instruments, Net of Tax (Details) link:presentationLink link:calculationLink link:definitionLink 9954508 - Disclosure - Fair Value Measurements (Details) link:presentationLink link:calculationLink link:definitionLink 9954509 - Disclosure - Bridge Commitment Letter, Term Loan and Revolving Credit Facilities (Details) link:presentationLink link:calculationLink link:definitionLink 9954510 - Disclosure - Leases - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954511 - Disclosure - Leases - Components of Lease Expense (Details) link:presentationLink link:calculationLink link:definitionLink 9954512 - Disclosure - Leases - Supplemental Cash Flow Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954513 - Disclosure - Leases - Lease Term and Discount Rate Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954514 - Disclosure - Leases - Future Minimum Payments (Details) link:presentationLink link:calculationLink link:definitionLink 9954514 - Disclosure - Leases - Future Minimum Payments (Details) link:presentationLink link:calculationLink link:definitionLink 9954515 - Disclosure - Leases - Lease Receipts (Details) link:presentationLink link:calculationLink link:definitionLink 9954516 - Disclosure - Redeemable Non-controlling Interest (Details) link:presentationLink link:calculationLink link:definitionLink 9954517 - Disclosure - Accumulated Other Comprehensive Income (Loss) - Components of Accumulated Other Comprehensive Income (Loss) (Details) link:presentationLink link:calculationLink link:definitionLink 9954518 - Disclosure - Accumulated Other Comprehensive Income (Loss) - Effect of Amounts Reclassified out of Each Component of Accumulated Other Comprehensive Income (Loss) into Net Income (Details) link:presentationLink link:calculationLink link:definitionLink 9954519 - Disclosure - Stock Repurchase Program - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954520 - Disclosure - Stock Repurchase Program - Stock Repurchase Activities (Details) link:presentationLink link:calculationLink link:definitionLink 9954521 - Disclosure - Stock-Based Compensation - Stock Compensation Expense (Details) link:presentationLink link:calculationLink link:definitionLink 9954522 - Disclosure - Stock-Based Compensation - Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions (Details) link:presentationLink link:calculationLink link:definitionLink 9954523 - Disclosure - Stock-Based Compensation - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954524 - Disclosure - Stock-Based Compensation - Schedule of Intrinsic Value of Equity Awards Exercised (Details) link:presentationLink link:calculationLink link:definitionLink 9954525 - Disclosure - Net Income (Loss) Per Share (Details) link:presentationLink link:calculationLink link:definitionLink 9954526 - Disclosure - Segment Disclosure - Additional information (Details) link:presentationLink link:calculationLink link:definitionLink 9954527 - Disclosure - Segment Disclosure - Schedule of Segment Reporting Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954528 - Disclosure - Segment Disclosure - Schedule of Segment Reconciliation (Details) link:presentationLink link:calculationLink link:definitionLink 9954529 - Disclosure - Segment Disclosure - Revenues Related to Operations by Geographic Areas (Details) link:presentationLink link:calculationLink link:definitionLink 9954530 - Disclosure - Interest and Other Income (Expense), Net (Details) link:presentationLink link:calculationLink link:definitionLink 9954531 - Disclosure - Income Taxes - Provision for Income Taxes and Effective Tax Rates (Details) link:presentationLink link:calculationLink link:definitionLink 9954532 - Disclosure - Income Taxes - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954533 - Disclosure - Contingencies (Details) link:presentationLink link:calculationLink link:definitionLink EX-101.CAL 6 snps-20240731_cal.xml XBRL TAXONOMY EXTENSION CALCULATION LINKBASE DOCUMENT EX-101.DEF 7 snps-20240731_def.xml XBRL TAXONOMY EXTENSION DEFINITION LINKBASE DOCUMENT EX-101.LAB 8 snps-20240731_lab.xml XBRL TAXONOMY EXTENSION LABEL LINKBASE DOCUMENT Adjustments to reconcile net income to net cash provided by operating activities: Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Remaining amount available for further repurchases Share Repurchase Program, Remaining Authorized, Amount Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity [Abstract] Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity [Abstract] Termination fee payable Business Acquisition, Contract Termination Fee Payable Business Acquisition, Contract Termination Fee Payable Cover [Abstract] Cover [Abstract] 2029 and thereafter Lessee, Operating Lease, Liability, to be Paid, after Year Five Net change in cash, cash equivalents and restricted cash Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Schedule of Lessee, Operating Lease, Liability, Maturity Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block] Income Tax Authority [Domain] Income Tax Jurisdiction [Domain] Percent of company acquired Business Acquisition, Percentage of Voting Interests Acquired Trading Symbol Trading Symbol Consideration transferred including redeemable noncontrolling interest Business Combination, Consideration Transferred Including Redeemable Noncontrolling Interest Business Combination, Consideration Transferred Including Redeemable Noncontrolling Interest Comprehensive income Comprehensive Income (Loss), Net of Tax, Including Portion Attributable to Noncontrolling Interest Fair values of derivative instruments, assets Derivative Asset, Subject to Master Netting Arrangement, before Offset Non-NEOs Non-NEOs [Member] Income tax benefit Share-Based Payment Arrangement, Expense, Tax Benefit Operating lease liabilities Increase (Decrease) in Operating Lease Liabilities Increase (Decrease) in Operating Lease Liabilities Accelerated Share Repurchases [Table] Accelerated Share Repurchases [Table] Disposal Group Name [Domain] Disposal Group Name [Domain] 2026 Lessor, Operating Lease, Payment to be Received, Year Two Short-term Investments Short-Term Investments [Member] Cash equivalents Cash Equivalents [Member] Accounts receivable Increase (Decrease) in Accounts Receivable Time-based products License and Maintenance [Member] Non-Rule 10b5-1 Arrangement Adopted Non-Rule 10b5-1 Arrangement Adopted [Flag] Net income from continuing operations Income (Loss) from Continuing Operations, Net of Tax, Including Portion Attributable to Noncontrolling Interest Hedging Relationship [Domain] Hedging Relationship [Domain] Fair Value Measurements Fair Value Disclosures [Text Block] Award Timing Disclosures [Line Items] Redeemable Noncontrolling Interest, by Legal Entity [Table] Redeemable Noncontrolling Interest [Table] Proceeds from maturities and sales of short-term investments Proceeds from Sale and Maturity of Marketable Securities Revenue from Contract with Customer [Abstract] Revenue from Contract with Customer [Abstract] United States UNITED STATES Cash and cash equivalents Disposal Group, Including Discontinued Operation, Cash and Cash Equivalents Other long-term assets Total Other Assets, Noncurrent Leases [Abstract] Leases [Abstract] Gross Carrying Amount Finite-Lived Intangible Assets, Gross Payments for legal settlements Payments for Legal Settlements Operating Segments Operating Segments [Member] Net cash provided by operating activities Net Cash Provided by (Used in) Operating Activities Cash flows from operating activities: Net Cash Provided by (Used in) Operating Activities [Abstract] Deferred income taxes Disposal Group, Including Discontinued Operation, Deferred Tax Assets Schedule of Components of Accumulated Other Comprehensive Income (Loss) Schedule of Accumulated Other Comprehensive Income (Loss) [Table Text Block] Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Award Timing Method Award Timing Method [Text Block] Trading Arrangements, by Individual Trading Arrangements, by Individual [Table] Noncontrolling Interest [Line Items] Noncontrolling Interest [Line Items] Measurement Frequency [Axis] Measurement Frequency [Axis] Entity Common Stock, Shares Outstanding Entity Common Stock, Shares Outstanding Insider Trading Policies and Procedures [Line Items] Use of Estimates Use of Estimates, Policy [Policy Text Block] Deferred revenue Disposal Group, Including Discontinued Operation, Deferred Revenue, Current Adjustment to Compensation, Amount Adjustment to Compensation Amount Compensation Amount Outstanding Recovery Compensation Amount Disposal Group Classification [Axis] Disposal Group Classification [Axis] Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table [Member] Entity Small Business Entity Small Business Company Selected Measure Amount Company Selected Measure Amount Tabular List, Table Tabular List [Table Text Block] Significant Unobservable Â Inputs (LevelÂ 3) Fair Value, Inputs, Level 3 [Member] Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Remainder of fiscal 2024 Lessor, Operating Lease, Payment to be Received, Remainder of Fiscal Year Anti-dilutive employee stock-based awards excluded (shares) Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Bridge Commitment Bridge Commitment [Member] Bridge Commitment Credit Facility [Domain] Credit Facility [Domain] Long-term assets held for sale Total long-term assets held for sale Disposal Group, Including Discontinued Operation, Assets, Noncurrent Goodwill Beginning balance Ending balance Goodwill Payments for taxes related to net share settlement of equity awards Payment, Tax Withholding, Share-Based Payment Arrangement Other comprehensive income (loss): Other Comprehensive Income (Loss), Net of Tax [Abstract] Stock repurchase program authorized amount Share Repurchase Program, Authorized, Amount Employee Stock Option Share-Based Payment Arrangement, Option [Member] Debt Securities, Available-for-Sale [Table] Debt Securities, Available-for-Sale [Table] Foreign Exchange Forward Foreign Exchange Forward [Member] Net fair value Derivative, Fair Value, Net Remainder of fiscal 2024 Lessee, Operating Lease, Liability, to be Paid, Year One Other Proceeds from (Payments for) Other Financing Activities Upfront products License [Member] Comprehensive income attributed to Synopsys Comprehensive Income (Loss), Net of Tax, Attributable to Parent Accrued income taxes Accrued Income Taxes, Current Municipal bonds Municipal Bonds [Member] Award Type [Axis] Award Type [Axis] Corporate debt securities Corporate Debt Securities [Member] Effect of foreign currency translation Goodwill, Foreign Currency Translation Gain (Loss) Net income (loss) per share attributed to Synopsys - basic: Earnings Per Share, Basic [Abstract] Liabilities: Disposal Group, Including Discontinued Operation, Liabilities [Abstract] Reduction of operating lease right-of-use assets Reduction of Operating Lease Right-of-Use Assets Reduction of Operating Lease Right-of-Use Assets Property and equipment, net Property, Plant and Equipment, Net Repayment of debt Repayments of Debt Total liabilities Liabilities Non-controlling interest Equity, Attributable to Noncontrolling Interest Schedule of Cash Equivalents and Short-Term Investments Schedule of Cash and Cash Equivalents [Table Text Block] Continuing operations Continuing Operations [Member] Common stock, par value (in USD per share) Common Stock, Par or Stated Value Per Share Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table] Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Revolving Credit Facility Revolving Credit Facility [Member] Expiration Date Trading Arrangement Expiration Date Cash flows from investing activities: Net Cash Provided by (Used in) Investing Activities [Abstract] Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Table] Reclassification out of Accumulated Other Comprehensive Income [Table] Operating lease liabilities Operating Lease, Liability, Current Total Shareholder Return Amount Total Shareholder Return Amount >10 years Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year 10 Equity Awards Adjustments, Footnote Equity Awards Adjustments, Footnote [Text Block] Other long-term assets Other Assets, Fair Value Disclosure Schedule of Stock Repurchase And Reissuance Activities Class of Treasury Stock [Table Text Block] AmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ on derivatives (effective portion) Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), before Reclassification and Tax Debt Instrument [Line Items] Debt Instrument [Line Items] Named Executive Officers, Footnote Named Executive Officers, Footnote [Text Block] Research and development expense Research and Development Expense [Member] Number of fiscal quarters for consideration installment payments Disposal Group, Including Discontinued Operation, Number Of Fiscal Quarters For Consideration Installment Payments Disposal Group, Including Discontinued Operation, Number Of Fiscal Quarters For Consideration Installment Payments Change in unrealized gains (losses) on available-for-sale securities, net of tax of $0 for periods presented OCI, Debt Securities, Available-for-Sale, Gain (Loss), after Adjustment and Tax Diluted (shares) Weighted-average common shares for diluted net income per share (shares) Weighted Average Number of Shares Outstanding, Diluted Consideration payable at closing Disposal Group Including Discontinued Operation, Consideration Payable at Closing Disposal Group Including Discontinued Operation, Consideration Payable at Closing Accrued liabilities Accrued Liabilities [Member] Net income (loss) attributed to Synopsys: Income Amounts Attributable to Parent, Disclosures [Abstract] MNPI Disclosure Timed for Compensation Value MNPI Disclosure Timed for Compensation Value [Flag] Total Synopsys stockholdersâ€™ equity Equity, Attributable to Parent less than 1 year Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, Year One Litigation Case [Axis] Litigation Case [Axis] Revenue Disposal Group, Including Discontinued Operation, Revenue Schedule of Goodwill Schedule of Goodwill [Table Text Block] Concentration Risk Type [Domain] Concentration Risk Type [Domain] Proceeds from sales of strategic investments Proceeds from Sale and Maturity of Other Investments Schedule of Balance Sheets Components Schedule of Balance Sheet, Supplemental Disclosures [Table Text Block] Schedule of Balance Sheet, Supplemental Disclosures Cost of products Cost of Sales [Member] Product

Product [Member] Term Loan Agreement, Tranche One Term Loan Agreement, Tranche One [Member] Term Loan Agreement, Tranche One Schedule of Assets and Liabilities Measured at Fair Value on Recurring Basis Fair Value Measurements, Recurring and Nonrecurring [Table Text Block] Document Fiscal Period Focus Document Fiscal Period Focus Transaction costs Business Combination, Acquisition Related Costs All Executive Categories All Executive Categories [Member] Dilutive effect of common share equivalents from equity-based compensation (shares) Incremental Common Shares Attributable to Dilutive Effect of Share-Based Payment Arrangements Balance Sheet Location [Domain] Statement of Financial Position Location, Balance [Domain] Business acquisition, share price Business Acquisition, Share Price 2026 Finite-Lived Intangible Asset, Expected Amortization, Year Two Design Automation: Semiconductor And System Design [Member] Semiconductor And System Design [Member] Changed Peer Group, Footnote Changed Peer Group, Footnote [Text Block] Goodwill, expected tax deductible amount Business Acquisition, Goodwill, Expected Tax Deductible Amount Contingent consideration Disposal Group Including Discontinued Operation, Contingent Consideration Disposal Group Including Discontinued Operation, Contingent Consideration ASSETS Assets [Abstract] Software Integrity business Software Integrity Business [Member] Software Integrity Business Schedule of Lessee, Lease Term and Discount Rate Lessee, Lease Term and Discount Rate [Table Text Block] Lessee, Lease Term and Discount Rate [Table Text Block] Other comprehensive income (loss), net of tax effects Other comprehensive income (loss), net of tax effects Other Comprehensive Income (Loss), Net of Tax Document Type Document Type Commitment fees percentage Line of Credit Facility, Commitment Fee Percentage Derivative Contract [Domain] Derivative Contract [Domain] Net tangible liabilities Business Combination Recognized Identifiable Assets Acquired And Liabilities Assumed Other Tangible Liabilities Net Business Combination Recognized Identifiable Assets Acquired And Liabilities Assumed Other Tangible Liabilities Net Schedule of Segment Reporting Information Schedule of Segment Reporting Information, by Segment [Table Text Block] Cash, cash equivalents and restricted cash, beginning of year, including cash from discontinued operations Cash, cash equivalents and restricted cash, end of period, including cash from discontinued operations Total cash, cash equivalents and restricted cash, including cash from discontinued operations Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Including Disposal Group and Discontinued Operations Net loss incurred by OpenLight Business Combination, Pro Forma Information, Earnings or Loss of Acquiree since Acquisition Date, Actual Other Income and Expenses [Abstract] Other Income and Expenses [Abstract] Total Debt Securities, Available-for-Sale, Amortized Cost Schedule of Contract Assets and Liabilities Contract with Customer, Contract Asset, Contract Liability, and Receivable [Table Text Block] Schedule of Estimated Future Amortization of Acquired Intangible Assets Schedule of Finite-Lived Intangible Assets, Future Amortization Expense [Table Text Block] Revenues Sales [Member] Maximum Maximum [Member] Equity Valuation Assumption Difference, Footnote Equity Valuation Assumption Difference, Footnote [Text Block] Accounts payable Accounts Payable, Current Deferred compensation plan Gains (losses) on assets related to deferred compensation plan Gain (Loss) On Assets Related To Deferred Compensation Plan Gain or (loss) on assets related to deferred compensation plan. Investment Type [Axis] Investment Type [Axis] Total lease expense Lease, Cost Statistical Measurement [Axis] Statistical Measurement [Axis] Non-Rule 10b5-1 Arrangement Terminated Non-Rule 10b5-1 Arrangement Terminated [Flag] Income before income taxes Income before income taxes Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Consideration payable in installments Disposal Group Including Discontinued Operation, Consideration, Payable in Installments Disposal Group Including Discontinued Operation, Consideration, Payable in Installments Non-PEO NEO Average Total Compensation Amount Non-PEO NEO Average Total Compensation Amount Name Outstanding Recovery, Individual Name Disaggregation of Revenue [Line Items] Disaggregation of Revenue [Line Items] Deferred income taxes Disposal Group, Including Discontinued Operation, Deferred Income Taxes, Current Disposal Group, Including Discontinued Operation, Deferred Income Taxes, Current Schedule of Discontinued Operations Disposal Groups, Including Discontinued Operations [Table Text Block] Variable lease expense Variable Lease, Cost Goodwill Disposal Group, Including Discontinued Operation, Goodwill Award Timing Predetermined Award Timing Predetermined [Flag] Termination fee receivable Business Acquisition, Contract Termination Fee Receivable Business Acquisition, Contract Termination Fee Receivable Restricted cash included in other long-term assets Restricted Cash, Noncurrent Customer relationships Customer Relationships [Member] Forecast Forecast [Member] Diluted net income per share (in USD per share) Diluted net income per share (in USD per share) Earnings Per Share, Diluted Additions Goodwill, Period Increase (Decrease) Financial Assets and Liabilities Schedule Of Financial Assets And Liabilities [Text Block] A schedule of financial assets and liabilities which may include cash, cash equivalents, investments, and derivative assets and liabilities. Schedule of Amortization Expense Related to Intangible Assets Finite-Lived Intangible Assets Amortization Expense [Table Text Block] Deferred revenue Increase (Decrease) in Contract with Customer, Liability Unrealized gains (losses) on derivative instruments, net of taxes Accumulated Gain (Loss), Cash Flow Hedge, Including Noncontrolling Interest [Member] Restatement does not require Recovery Restatement Does Not Require Recovery [Text Block] Ownership [Axis] Ownership [Axis] Total cash, cash equivalents and short-term investments Cash, Cash Equivalents, and Short-Term Investments Foreign currency exchange gains (losses) Gain (Loss), Foreign Currency Transaction, before Tax Redeemable noncontrolling interest, put option value Redeemable Noncontrolling Interest, Equity, Put Option Value Redeemable Noncontrolling Interest, Equity, Put Option Value 2027 Lessor, Operating Lease, Payment to be Received, Year Three Statement of Financial Position [Abstract] Statement of Financial Position [Abstract] Asset-backed securities Asset-Backed Securities [Member] Sales and marketing Selling and Marketing Expense Net income Net income Net income Net Income (Loss), Including Portion Attributable to Noncontrolling Interest Provision (benefit) for income taxes Provision (benefit) for income taxes Income Tax Expense (Benefit) Total gross notional amounts Derivative, Notional Amount Weighted-average period of total compensation costs to be recognized in years Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Period for Recognition Total revenue Revenue from Contract with Customer, Excluding Assessed Tax Acquisitions, net of cash acquired Payments to Acquire Intangible Assets Statement of Comprehensive Income [Abstract] Statement of Comprehensive Income [Abstract] Net cash used in investing activities Net Cash Provided by (Used in) Investing Activities Income Tax Authority [Axis] Income Tax Jurisdiction [Axis] Business Acquisition [Line Items] Business Acquisition [Line Items] All Adjustments to Compensation All Adjustments to Compensation [Member] Payroll and related benefits Employee-related Liabilities, Current Prepaid and other current assets Increase (Decrease) in Prepaid Expense and Other Assets Capital in excess of par value Additional Paid in Capital Schedule of Components of Interest and Other Income (Expense), Net Schedule of Other Nonoperating Income (Expense) [Table Text Block] Restructuring charges Restructuring charges Restructuring Charges Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items] Commitments and Contingencies Disclosure [Abstract] Commitments and Contingencies Disclosure [Abstract] Scenario [Domain] Scenario [Domain] Total Lessor, Operating Lease, Payment to be Received Other Other Product And Service [Member] Other Product And Service [Member] Revenue, remaining performance obligation, expected timing of satisfaction, period Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period U.S. Treasury, agency & T-bills US Government Agencies Debt Securities [Member] Long-term Debt, Type [Domain] Long-Term Debt, Type [Domain] Entity Address, State or Province Entity Address, State or Province Adjustments to redeemable non-controlling interest Noncontrolling Interest, Change in Redemption Value Erroneous Compensation Analysis Erroneous Compensation Analysis [Text Block] Current assets held for sale Total current assets held for sale Disposal Group, Including Discontinued Operation, Assets, Current Cash consideration Disposal Group, Including Discontinued Operation, Consideration Financial Instruments [Domain] Financial Instruments [Domain] LIABILITIES, REDEEMABLE NON-CONTROLLING INTEREST AND STOCKHOLDERSâ€™ EQUITY Liabilities and Equity [Abstract] Other long-term liabilities Other Liabilities, Fair Value Disclosure Restatement Determination Date Restatement Determination Date Pay vs Performance Disclosure Pay vs Performance Disclosure [Table] Operating lease right-of-use assets, net Operating Lease, Right-of-Use Asset Erroneously Awarded Compensation Recovery Erroneously Awarded Compensation Recovery [Table] Net Income (Loss) Per Share Earnings Per Share [Text Block] Discontinued operations Discontinued Operations [Member] Deferred gains (losses), net of tax $(1,989) and $(1,970) for the three and nine months ended July 31, 2024, respectively, and of $(2,147) and $(14,995) for each of the same periods in fiscal 2023, respectively. Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), before Reclassification, after Tax Grant date fair value (in usd per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period, Weighted Average Grant Date Fair Value ANSYS, Inc. ANSYS, Inc [Member] ANSYS, Inc Peer Group Issuers, Footnote Peer Group Issuers, Footnote [Text Block] Segments [Domain] Segments [Domain] Taxes [Line Items] Taxes [Line Items] Taxes [Line Items] Less: Cash, cash equivalents and restricted cash from discontinued operations Cash, cash equivalents and restricted cash from discontinued operations Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Disposal Group, Including Discontinued Operations Amortization of acquired intangible assets Other Depreciation and Amortization Trademarks and trade names Trademarks and Trade Names [Member] Discontinued operations (in USD per share) Income (Loss) from Discontinued Operations and Disposal of Discontinued Operations, Net of Tax, Per Diluted Share PEO PEO [Member] Name Trading Arrangement, Individual Name Period for hedge balance in OCI to be reclassified to statement of operations (in months) Derivative Instruments, Gain (Loss) Reclassification from Accumulated OCI to Income, Estimate of Time to Transfer Disposal Group Name [Axis] Disposal Group Name [Axis] 2028 Lessor, Operating Lease, Payment to be Received, Year Four Treasury stock, at cost: 3,648 and 5,207 shares, respectively Treasury Stock, Common, Value Amortization of acquired intangible assets Cost, Depreciation, Amortization and Depletion Awards Close in Time to MNPI Disclosures, Table Awards Close in Time to MNPI Disclosures [Table Text Block] Other Income (Expense) Other Nonoperating Income (Expense) [Abstract] Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year [Member] Cash equivalents Cash and Cash Equivalents, Fair Value Disclosure Estimated potential decrease in underlying unrecognized tax benefits Decrease in Unrecognized Tax Benefits is Reasonably Possible Aggregate Erroneous Compensation Amount Aggregate Erroneous Compensation Amount Local Phone Number Local Phone Number Aggregate Erroneous Compensation Not Yet Determined Aggregate Erroneous Compensation Not Yet Determined [Text Block] Foreign Line of Credit Foreign Line of Credit [Member] Total operating expenses Operating Expenses Net changes in operating assets and liabilities, net of acquired assets and assumed liabilities: Increase (Decrease) in Operating Capital [Abstract] SOFR Secured Overnight Financing Rate (SOFR) [Member] Forward contracts terms (in months) Maximum Length of Time, Foreign Currency Cash Flow Hedge PEO Total Compensation Amount PEO Total Compensation Amount Fair values of derivative instruments, liabilities Derivative Liability, Subject to Master Netting Arrangement, before Offset Shipments period using hedges (in months) Derivative, Maximum Shipment Period For Entry Into Foreign Currency Forward Contract Derivative, Maximum Shipment Period For Entry Into Foreign Currency Forward Contract Income Statement Location [Axis] Statement of Income Location, Balance [Axis] Debt Disclosure [Abstract] Debt Disclosure [Abstract] Common Stock Common Stock [Member] Forgone Recovery due to Expense of Enforcement, Amount Forgone Recovery due to Expense of Enforcement, Amount Schedule of Business Acquisitions, by Acquisition [Table] Schedule of Business Acquisitions, by Acquisition [Table] Line of Credit Line of Credit [Member] Issuances of common stock Proceeds from Sale of Treasury Stock Deferred compensation plan liabilities Deferred Compensation Liability, Classified, Noncurrent 5-10 years Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year Five Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year Five Segment Reporting [Abstract] Segment Reporting [Abstract] Entity Central Index Key Entity Central Index Key Financial Assets and Liabilities [Table] Financial Assets And Liabilities [Table] Financial Assets and Liabilities [Table] Scenario [Axis] Scenario [Axis] General and administrative expense General and Administrative Expense [Member] Non-designated foreign exchange forward contract remaining maturity Derivative, Remaining Maturity Discontinued Operations and Disposal Groups [Abstract] Non-PEO NEO Average Compensation Actually Paid Amount Non-PEO NEO Average Compensation Actually Paid Amount Accounts payable and accrued liabilities Increase (Decrease) in Accounts Payable and Accrued Liabilities Award Timing, How MNPI Considered Award Timing, How MNPI Considered [Text Block] Financial Instrument [Axis] Financial Instrument [Axis] Segment Disclosure Segment Reporting Disclosure [Text Block] Stock-based compensation APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Title Trading Arrangement, Individual Title Revolving Credit Agreement Revolving Credit Agreement [Member] Revolving Credit Agreement Consolidated Entities [Axis] Consolidated Entities [Axis] Unsecured Debt Unsecured Debt [Member] Cumulative currency translation adjustments Accumulated Foreign Currency Adjustment Including Portion Attributable to Noncontrolling Interest [Member] City Area Code City Area Code Income tax provisions (benefits) Discontinued Operation, Tax Effect of Discontinued Operation Current liabilities: Liabilities, Current [Abstract] Disposal Group Classification [Domain] Disposal Group Classification [Domain] Insider Trading Policies and Procedures Not Adopted Insider Trading Policies and Procedures Not Adopted [Text Block] Purchases of short-term investments Payments to Acquire Short-Term Investments Purchases of treasury stock Payments for Repurchase of Common Stock Long-term debt Long-Term Debt, Excluding Current Maturities Schedule of Segment Reporting Information, by Segment [Table] Schedule of Segment Reporting Information, by Segment [Table] Revenue, remaining performance obligation, percentage Revenue, Remaining Performance Obligation, Percentage Earnings Per Share [Abstract] Retained earnings Retained Earnings (Accumulated Deficit) Schedule of Effect of Amounts Reclassified out of Each Component of Accumulated Other Comprehensive Income (Loss) into Net Income Reclassification out of Accumulated Other Comprehensive Income [Table Text Block] Inventories Increase (Decrease) in Inventories General and administrative General and Administrative Expense Deferred income taxes Deferred Income Taxes and Tax Credits Aggregate Available Trading Arrangement, Securities Aggregate Available Amount Equity Awards Adjustments Equity Awards Adjustments [Member] Total lease liabilities Operating Lease, Liability Underlying Securities Award Underlying Securities Amount Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions [Table Text Block] Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions Number of days until consideration installment payments begin Disposal Group, Including Discontinued Operation, Number Of Business Days Until Consideration Installment Payments Begin Disposal Group, Including Discontinued Operation, Number Of Business Days Until Consideration Installment Payments Begin Interest income Interest Income, Other Amendment Flag Amendment Flag Stock Appreciation Rights (SARs) Stock Appreciation Rights (SARs) [Member] Stock Compensation [Abstract] Employee Benefit and Share-Based Payment Arrangement, Noncash Expense [Abstract] Schedule of Cash, Cash Equivalents and Restricted Cash Restrictions on Cash and Cash Equivalents [Table Text Block] Interest and Other Income (Expense), Net Other Income and Other Expense Disclosure [Text Block] less than 1 year Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, Year One Bridge Commitment Letter, Term Loan and Revolving Credit Facilities Debt Disclosure [Text Block] Fair Value Hierarchy and NAV [Domain] Fair Value Hierarchy and NAV [Domain] Recovery of Erroneously Awarded Compensation Disclosure [Line Items] Net income Net Income (Loss), Including Portion Attributable to Noncontrolling Interest, Separately Stated Net Income (Loss), Including Portion Attributable to Noncontrolling Interest, Separately Stated Entity Address, Postal Zip Code Entity Address, Postal Zip Code EDA Electronic Design Automation [Member] Electronic Design Automation [Member] Fiscal Year and Fiscal Quarter End Fiscal Period, Policy [Policy Text Block] Discontinued operations (in USD per share) Income (Loss) from Discontinued Operations and Disposal of Discontinued Operations, Net of Tax, Per Basic Share Cash and cash equivalents Cash and cash equivalents Cash and Cash Equivalents, at Carrying Value Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member] Juniper Networks, Inc Juniper Networks, Inc [Member] Juniper Networks, Inc Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested [Member] ESPP Employee Stock [Member] Redeemable Non-controlling Interest Noncontrolling Interest Disclosure [Text Block] Adjustment To PEO Compensation, Footnote Adjustment To PEO Compensation, Footnote [Text Block] FairÂ valuesÂ of derivativeÂ instruments designatedÂ asÂ hedging instruments Designated as Hedging Instrument [Member] Compensation Actually Paid vs. Other Measure Compensation Actually Paid vs. Other Measure [Text Block] Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year [Member] Total assets Assets Cost of revenue Cost of Goods and Services Sold Reclassification adjustment on deferred (gains) losses included in net income, tax Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), Reclassification, Tax Purchases of property and equipment Payments to Acquire Property, Plant, and Equipment Other long-term liabilities Total Other Liabilities, Noncurrent Stock Repurchase Program Treasury Stock [Text Block] Forgone Recovery due to Violation of Home Country Law, Amount Forgone Recovery due to Violation of Home Country Law, Amount Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Schedule of Provision (Benefit) for Incomes Taxes and Effective Tax Rates Schedule of Effective Income Tax Rate Reconciliation [Table Text Block] Termination Date Trading Arrangement Termination Date Description of Business Nature of Operations [Text Block] 2025 Lessee, Operating Lease, Liability, to be Paid, Year Two FairÂ valuesÂ of derivativeÂ instruments not designated as hedging instruments Not Designated as Hedging Instrument [Member] Schedule of Revenues Related to Operations by Geographic Areas Revenue from External Customers by Geographic Areas [Table Text Block] 1-5 years Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after

Year One Through Five Stock-based compensation Disposal Group, Including Discontinued Operation, Share-Based Payment Arrangement, Noncash Expense Disposal Group, Including Discontinued Operation, Share-Based Payment Arrangement, Noncash Expense Debt Instrument [Axis] Debt Instrument [Axis] Noncontrolling Interest [Abstract] Net income attributed to Synopsys Net Income (Loss) Net Income (Loss) Attributable to Parent Trading Arrangement: Trading Arrangement [Axis] Capitalized commission, net Capitalized Commission, Noncurrent Capitalized Commission, Noncurrent Pay vs Performance Disclosure, Table Pay vs Performance [Table Text Block] OpenLight OpenLight [Member] OpenLight Equity Awards Adjustments, Excluding Value Reported in Compensation Table Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member] >10 years Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year 10 Core/developed technology Developed And Core Technology [Member] Developed And Core Technology [Member] Entity File Number Entity File Number Consolidated Entities [Domain] Consolidated Entities [Domain] Non-controlling Interest Noncontrolling Interest [Member] Income Statement [Abstract] Income Statement [Abstract] Entity Address, Address Line One Entity Address, Address Line One Cost of maintenance and service Cost Of Maintenance And Services [Member] Cost Of Maintenance And Services [Member] Effect of exchange rate changes on cash, cash equivalents and restricted cash Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Continuing Operations Name Forgone Recovery, Individual Name Weighted-average remaining lease term (in years) Operating Lease, Weighted Average Remaining Lease Term Unsecured Uncommitted Incremental Revolving Loan Facility Unsecured Uncommitted Incremental Revolving Loan Facility [Member] Unsecured Uncommitted Incremental Revolving Loan Facility Other non-cash Other Noncash Income (Expense) Award Timing MNPI Considered Award Timing MNPI Considered [Flag] Contract assets, net Contract with Customer, Asset, after Allowance for Credit Loss Outstanding Aggregate Erroneous Compensation Amount Outstanding Aggregate Erroneous Compensation Amount Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] PEO Actually Paid Compensation Amount PEO Actually Paid Compensation Amount Continuing operations (in USD per share) Income (Loss) from Continuing Operations, Per Diluted Share Total cost of revenue Cost of Revenue Adjustment to Compensation: Adjustment to Compensation [Axis] Design IP: Silicon IP [Member] Silicon IP Less: Net income (loss) attributed to non-controlling interest and redeemable non-controlling interest Less: Net income (loss) attributed to non-controlling interest and redeemable non-controlling interest Net Income (Loss) Attributable to Noncontrolling Interest Document Quarterly Report Document Quarterly Report Reclassification adjustment on deferred (gains) losses included in net income, net of tax of $348 and $(2,083) for the three and nine months ended July 31, 2024, respectively, and of $(2,111) and $(8,707) for each of the same periods in fiscal 2023, respectively. Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), Reclassification, after Tax 1-5 years Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year One Through Five Litigation Case [Domain] Litigation Case [Domain] Accumulated other comprehensive income (loss) Accumulated Other Comprehensive Income (Loss), Net of Tax Pension Adjustments Service Cost Pension Adjustments Service Cost [Member] Basic (shares) Weighted-average common shares for basic net income per share (shares) Weighted Average Number of Shares Outstanding, Basic Stock Price or TSR Estimation Method Stock Price or TSR Estimation Method [Text Block] Gross Unrealized Losses 12 Continuous Months or Longer Debt Securities, Available-for-Sale, Continuous Unrealized Loss Position, 12 Months or Longer, Accumulated Loss Total stockholdersâ€™ equity Beginning balance Ending balance Equity, Including Portion Attributable to Noncontrolling Interest Accelerated Share Repurchase Program August 2023 Accelerated Share Repurchase Program August 2023 [Member] Accelerated Share Repurchase Program August 2023 Finite Lived Intangible Assets Amortization Expense [Table] Finite Lived Intangible Assets Amortization Expense [Table] Finite Lived Intangible Assets Amortization Expense [Table] Name Awards Close in Time to MNPI Disclosures, Individual Name Amortization and depreciation Disposal Group, Including Discontinued Operation, Depreciation and Amortization Revenue Revenue Benchmark [Member] Gross Unrealized Losses Less Than 12 Continuous Months Debt Securities, Available-for-Sale, Continuous Unrealized Loss Position, Less than 12 Months, Accumulated Loss Number of acquisitions Number of Businesses Acquired Entity Filer Category Entity Filer Category Revenue, remaining performance obligation, amount Revenue, Remaining Performance Obligation, Amount Schedule of Lessor, Operating Lease, Payment to be Received, Fiscal Year Maturity Lessor, Operating Lease, Payment to be Received, Maturity [Table Text Block] Cost of revenue: Cost of Revenue [Abstract] Loss Contingencies [Line Items] Loss Contingencies [Line Items] Statistical Measurement [Domain] Statistical Measurement [Domain] Schedule of Lease, Cost Lease, Cost [Table Text Block] Denominator: Earnings Per Share, Denominator [Abstract] Earnings Per Share, Denominator [Abstract] Segment Reporting Information [Line Items] Segment Reporting Information [Line Items] Redeemable noncontrolling interest, redemption value Redeemable Noncontrolling Interest, Equity, Redemption Value All Trading Arrangements All Trading Arrangements [Member] Compensation Actually Paid vs. Net Income Compensation Actually Paid vs. Net Income [Text Block] Estimate of additional penalties and interest Income Tax Examination, Penalties and Interest Expense Revenue, remaining performance obligation, non-cancellable, amount Revenue, Remaining Performance Obligation, Non-Cancellable, Amount Revenue, Remaining Performance Obligation, Non-Cancellable, Amount Rule 10b5-1 Arrangement Adopted Rule 10b5-1 Arrangement Adopted [Flag] Awards Close in Time to MNPI Disclosures Awards Close in Time to MNPI Disclosures [Table] Net loss, attributable to redeemable non-controlling interest Business Combination, Pro Forma Information, Earnings or Loss of Acquiree since Acquisition Date Attributable to Redeemable Noncontrolling Interest, Actual Business Combination, Pro Forma Information, Earnings or Loss of Acquiree since Acquisition Date Attributable to Redeemable Noncontrolling Interest, Actual Assets: Disposal Group, Including Discontinued Operation, Assets [Abstract] Adjustments Goodwill, Measurement Period Adjustment Pay vs Performance Disclosure [Line Items] Redeemable non-controlling interest Redeemable Noncontrolling Interest, Equity, Carrying Amount Peer Group Total Shareholder Return Amount Peer Group Total Shareholder Return Amount Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Design IP reporting unit Design IP Reporting Unit [Member] Design IP Reporting Unit Schedule of Fair Values of Derivative Instrument Designated and Non-Designated as Hedging Instruments in Balance Sheet Schedule of Derivative Instruments in Statement of Financial Position, Fair Value [Table Text Block] Schedule Of Supplemental Cash Flow Information [Line Items] Schedule Of Supplemental Cash Flow Information [Line Items] Schedule Of Supplemental Cash Flow Information Stock-based compensation expense after taxes Share-Based Payment Arrangement, Expense, after Tax Other Performance Measure, Amount Other Performance Measure, Amount 2027 Finite-Lived Intangible Asset, Expected Amortization, Year Three Leases Lessee, Operating Leases [Text Block] Common stock, shares outstanding (in shares) Balance (in shares) Balance (in shares) Common Stock, Shares, Outstanding Operating lease expense Operating Lease, Cost Income taxes Increase (Decrease) in Income Taxes Long-term operating lease liabilities Operating Lease, Liability, Noncurrent Cash Flow Hedging Cash Flow Hedging [Member] Recognition of non-controlling interest upon issuance of subsidiary stock Noncontrolling Interest, Decrease from Redemptions or Purchase of Interests Deferred revenue Contract with Customer, Liability, Current Amortization of capitalized costs to obtain revenue contracts Amortization Of Capitalized Costs To Obtain Revenue Contracts Amortization Of Capitalized Costs To Obtain Revenue Contracts Entity Tax Identification Number Entity Tax Identification Number Schedule of Finite-Lived Intangible Assets [Table] Intangible Asset, Finite-Lived [Table] Purchases of treasury stock (in shares) Total shares repurchased (in shares) Treasury Stock, Shares, Acquired Mentor patent litigation Mentor Patent Litigation [Member] Mentor Patent Litigation [Member] Release of unrecognized tax benefit and offsetting foreign tax credits, net benefit Effective Income Tax Rate Reconciliation, Tax Settlement and Tax Credit, Foreign, Amount Effective Income Tax Rate Reconciliation, Tax Settlement and Tax Credit, Foreign, Amount Money market funds Money Market Funds [Member] Treasury Stock Treasury Stock, Common [Member] Schedule of Notional Amounts of Derivative Instruments Schedule of Derivative Instruments [Table Text Block] Numerator: Earnings Per Share Reconciliation [Abstract] Other long-term assets Disposal Group, Including Discontinued Operation, Other Assets, Noncurrent U.S. Treasury, agency & T-bills US Government Agencies Debt Securities and US Treasury Bill Securities [Member] US Government Agencies Debt Securities and US Treasury Bill Securities Equity Components [Axis] Equity Components [Axis] Estimated fair value Total Debt Securities, Available-for-Sale Goodwill Disposal Group, Including Discontinued Operation, Goodwill, Current Business Acquisition, Acquiree [Domain] Business Acquisition, Acquiree [Domain] Investments [Domain] Investments [Domain] Net income (loss) per share attributed to Synopsys - diluted: Earnings Per Share, Diluted [Abstract] Geographical [Axis] Geographical [Axis] 2028 Lessee, Operating Lease, Liability, to be Paid, Year Five Restricted Stock Units (RSUs), Market-based Restricted Stock Units (RSUs), Market-based [Member] Restricted Stock Units (RSUs), Market-based Sales and marketing expense Selling and Marketing Expense [Member] Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table [Member] Prepaid and other current assets Foreign Currency Contract, Asset, Fair Value Disclosure Cash Equivalents and Short-term Investments [Line Items] Debt Securities, Available-for-Sale [Line Items] Other Other Countries [Member] Other Countries Interest and other income (expense), net Disposal Group, Including Discontinued Operation, Interest And Other Income Expense, Net Disposal Group, Including Discontinued Operation, Interest And Other Income Expense, Net Cash, cash equivalents and restricted cash from continuing operations Cash, cash equivalents and restricted cash Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Cash flow hedges: Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), after Reclassification and Tax [Abstract] Unamortized share-based compensation expense Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Amount Operating lease right-of use assets, net Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Noncurrent Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Noncurrent Current assets: Assets, Current [Abstract] Consolidation Items [Axis] Consolidation Items [Axis] Continuing operations Net income from continuing operations attributed to Synopsys Income (Loss) from Continuing Operations, Net of Tax, Attributable to Parent Treasury stock, shares (in shares) Treasury Stock, Common, Shares Forgone Recovery due to Disqualification of Tax Benefits, Amount Forgone Recovery due to Disqualification of Tax Benefits, Amount Product and Service [Domain] Product and Service [Domain] Goodwill [Roll Forward] Goodwill [Roll Forward] Fair Value Disclosures [Abstract] Fair Value Disclosures [Abstract] Preferred stock, shares outstanding (in shares) Preferred Stock, Shares Outstanding Business acquisition, exchange ratio Business Acquisition, Exchange Ratio Business Acquisition, Exchange Ratio Security Exchange Name Security Exchange Name Borrowings, interest rate Debt Instrument, Basis Spread on Variable Rate Stock repurchase program, prepayment during period, derivative settlement Stock Repurchase Program, Prepayment During Period, Derivative Settlement Stock Repurchase Program, Prepayment During Period, Derivative Settlement Reclassification out of Accumulated Other Comprehensive Income (Loss) Reclassification out of Accumulated Other Comprehensive Income [Member] Capitalization of software development costs Payments to Acquire Other Productive Assets Financial Assets And Liabilities [Abstract] Financial Assets And Liabilities [Abstract] Financial Assets and Liabilities [Abstract] Accounts payable and accrued liabilities Foreign Currency Contracts, Liability, Fair Value Disclosure Amortized Cost Debt Securities, Available-for-Sale, Maturity, Allocated and Single Maturity Date, Amortized Cost [Abstract] Other Other Assets, Miscellaneous, Noncurrent Forgone Recovery, Explanation of Impracticability Forgone Recovery, Explanation of Impracticability [Text Block] Research and development Research and Development Expense Business acquisition, maximum stock to be issued as a percentage of stock issued and outstanding Business Acquisition, Maximum Stock To Be Issued As Percentage Of Stock Issued And Outstanding Business Acquisition, Maximum Stock To Be Issued As Percentage Of Stock Issued And Outstanding Goodwill and Intangible Assets Disclosure [Abstract] Goodwill and Intangible Assets Disclosure [Abstract] Other current assets Other Assets [Member] Revenue percentage by product group Concentration Risk, Percentage Credit facility maximum borrowing capacity Line of Credit Facility, Maximum Borrowing Capacity Shares used in computing per share amounts: Shares Used In Computing Per Share Amounts [Abstract] Shares Used in Computing per Share Amounts [Abstract] Insider Trading Policies and Procedures Adopted Insider Trading Policies and Procedures Adopted [Flag] Europe Europe [Member] Common stock, shares authorized (in shares) Common Stock, Shares Authorized Operating lease liabilities Disposal Group, Including Discontinued Operation, Operating Lease Liabilities, Current Disposal Group, Including Discontinued Operation, Operating Lease Liabilities, Current Remainder of fiscal 2024 Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year Schedule Of Supplemental Cash Flow Information [Table] Schedule Of Supplemental Cash Flow Information [Table] Schedule Of Supplemental Cash Flow Information Long-term Debt, Type [Axis] Long-Term Debt, Type [Axis] Long-term deferred revenue Disposal Group, Including Discontinued Operation, Deferred Revenue, Noncurrent Accounts payable and accrued liabilities: Accounts Payable and Accrued Liabilities, Current [Abstract] Lessee, operating lease, renewal term Lessee, Operating Lease, Renewal Term Interest expense Interest Expense, Nonoperating Balance Sheet Location [Axis] Statement of Financial Position Location, Balance [Axis] Hedging Designation [Domain] Hedging Designation [Domain] AmountÂ of gainsÂ (losses) reclassifiedÂ from OCI (effectiveÂ portion) Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), Reclassification, before Tax Long-term operating lease liabilities Disposal Group, Including Discontinued Operation, Operating Lease Liabilities, Noncurrent Disposal Group, Including Discontinued Operation, Operating Lease Liabilities, Noncurrent Property and equipment, net Disposal Group, Including Discontinued Operation, Property, Plant and Equipment, Noncurrent Software Integrity Divestiture Discontinued Operations, Policy [Policy Text Block] Fair Value, Measurements, Recurring Fair Value, Recurring [Member] Accounts receivable, net Accounts Receivable, after Allowance for Credit Loss, Current Deferred gains (losses), tax Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), before Reclassification, Tax Pension Adjustments Prior Service Cost Pension Adjustments Prior Service Cost [Member] Current liabilities held for sale Total current liabilities held for sale Disposal Group, Including Discontinued Operation, Liabilities, Current Fair Value, by Balance Sheet Grouping [Table] Fair Value, by Balance Sheet Grouping [Table] Restricted cash included in prepaid and other current assets Restricted Cash, Current Pension Benefits Adjustments, Footnote Pension Benefits Adjustments, Footnote [Text Block] Total Shareholder Return Vs Peer Group Total Shareholder Return Vs Peer Group [Text Block] Design IP Design IP [Member] Design IP Deferred compensation plan assets Deferred Compensation Plan Assets TotalÂ Synopsys Stockholdersâ€™ Equity Parent [Member] Risk-free interest rate Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate Amortization expense of intangible assets Amortization of acquired intangible assets Amortization of Intangible Assets Deferred revenue Contract with Customer, Liability Payment of bridge financing and term loan costs Payments of Financing Costs Accounting Policies [Abstract] Accounting Policies [Abstract] Revenue: Revenues [Abstract] Pending Acquisition of Ansys Business Combinations Business Combination Disclosure [Text Block] Current Fiscal Year End Date Current Fiscal Year End Date Less: Imputed interest Lessee, Operating Lease, Liability, Undiscounted Excess Amount Amortization of capitalized costs to obtain revenue contracts Disposal Group, Including Discontinued Operation, Capitalized Contract Cost, Amortization Disposal Group, Including Discontinued Operation, Capitalized Contract Cost, Amortization Short-term investments Short-Term Investments PEO Name PEO Name Deferred income taxes Disposal Group, Including Discontinued Operation, Deferred Income Tax Expense (Benefit) Disposal Group, Including Discontinued Operation, Deferred Income Tax Expense (Benefit) Award Type [Domain] Award Type [Domain] Accounts receivable, net Disposal Group, Including Discontinued Operation, Accounts, Notes and Loans Receivable, Net 2025 Lessor, Operating Lease, Payment to be Received, Year One Financial Assets and Liabilities [Line Items] Financial Assets And Liabilities [Line Items] Financial Assets and Liabilities [Line Items] Compensation Actually Paid vs. Company Selected Measure Compensation Actually Paid vs. Company Selected Measure [Text Block] Deferred income taxes Deferred Income Tax Assets, Net Non-PEO NEO Non-PEO NEO [Member] Short-term investments Investments, Fair Value Disclosure Capital in Excess of Par Value Additional Paid-in Capital [Member] Share repurchases settlement of equity forward (in shares) Accelerated Share Repurchases Settlement Of Equity Forward Accelerated Share Repurchases Settlement Of Equity Forward Hedging Relationship [Axis] Hedging Relationship [Axis] 5-10 years Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year Five Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year Five Recently Issued Accounting Pronouncements New Accounting Pronouncements, Policy [Policy Text Block] Fair Value Debt Securities, Available-for-Sale, Maturity, Allocated and Single Maturity Date, Fair Value [Abstract] Finite-Lived Intangible Assets by Major Class [Axis] Finite-Lived Intangible Assets by Major Class [Axis] Accumulated Amortization Finite-Lived Intangible Assets, Accumulated Amortization Schedule of Reconciliation of Weighted-Average Common Shares Used to Calculate Net Income Per Share Schedule of Weighted Average Number of Shares [Table Text Block] Name Measure Name Entity Interactive Data Current Entity Interactive Data Current Series of Individually Immaterial Business Acquisitions Series of Individually Immaterial Business Acquisitions [Member] Discontinued operations Net income (loss) from discontinued operations attributed to Synopsys Income (Loss) from Discontinued Operations, Net of Tax, Attributable to Parent Operating Activities [Axis] Operating Activities [Axis] Disaggregation of Revenue [Table] Disaggregation of Revenue [Table] China CHINA Prepaid and other current assets Disposal Group, Including Discontinued Operation, Prepaid and Other Assets, Current Schedule of Intrinsic Value of Equity Awards Exercised Schedule of Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Grant Date Intrinsic Value [Table Text Block] Discontinued operations Discontinued Operations, Held-for-Sale or Disposed of by Sale [Member] Stock-based compensation Share-Based Payment Arrangement, Noncash Expense Other long-term liabilities Disposal Group, Including Discontinued Operation, Other Liabilities, Noncurrent Property and equipment, net Disposal Group, Including Discontinued Operation, Property, Plant and Equipment, Current Operating expenses Operating Expense [Member] Aggregate tax

assessment (refund) Income Tax Examination, Liability (Refund) Adjustment from Settlement with Taxing Authority Schedule of Income Statement Location and Amount of Gains and Losses on Derivative Instrument Fair Values for Designated Hedge Instruments, Net of Tax Derivative Instruments, Gain (Loss) [Table Text Block] Interest and other income (expense), net Total Nonoperating Income (Expense) Reclassification out of Accumulated Other Comprehensive Income [Domain] Reclassification out of Accumulated Other Comprehensive Income [Domain] Concentration Risk Benchmark [Domain] Concentration Risk Benchmark [Domain] Effective tax rate Effective Income Tax Rate Reconciliation, Percent Operating income Adjusted operating income Operating income Operating Income (Loss) Variable Rate [Domain] Variable Rate [Domain] Number of reportable operating segment Number of Reportable Segments Total liabilities, redeemable non-controlling interest and stockholdersâ€™ equity Liabilities and Equity Rule 10b5-1 Arrangement Terminated Rule 10b5-1 Arrangement Terminated [Flag] Fair Value Hierarchy and NAV [Axis] Fair Value Hierarchy and NAV [Axis] Hedging Designation [Axis] Hedging Designation [Axis] Income (loss) from discontinued operations, net of income taxes Income (loss) from discontinued operations, net of income taxes Income (Loss) from Discontinued Operations, Net of Tax, Including Portion Attributable to Noncontrolling Interest Finite-Lived Intangible Assets, Major Class Name [Domain] Finite-Lived Intangible Assets, Major Class Name [Domain] ROU assets obtained in exchange for operating lease liabilities Right-of-Use Asset Obtained in Exchange for Operating Lease Liability Underlying Security Market Price Change Underlying Security Market Price Change, Percent Individual: Individual [Axis] Accumulated Other Comprehensive Income (Loss) AOCI Attributable to Parent [Member] Expected life (in years) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term Balance Sheet Related Disclosures [Abstract] Balance Sheet Related Disclosures [Abstract] Inventories Inventory, Net Product and Service [Axis] Product and Service [Axis] Statement [Line Items] Statement [Line Items] Change in unrealized gains (losses) on available-for-sale securities, tax OCI, Debt Securities, Available-for-Sale, Gain (Loss), after Adjustment, Tax Schedule of Reconciliation of Operating Income From Segment Consolidation Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table Text Block] Operating expenses: Operating Expenses [Abstract] Compensation Actually Paid vs. Total Shareholder Return Compensation Actually Paid vs. Total Shareholder Return [Text Block] Consideration transferred Business Combination, Consideration Transferred Derivative maturity period Derivative, Term of Contract Other long-term assets: Other Assets, Noncurrent [Abstract] Potential one-time termination charge Loss Contingency, Estimate of Possible Loss Minimum Minimum [Member] DeferredÂ compensationÂ planÂ assets Deferred Compensation Plan Assets [Member] Deferred Compensation Plan Assets [Member] Adoption Date Trading Arrangement Adoption Date Long-term deferred revenue Contract with Customer, Liability, Noncurrent Acquisition/divestiture related items Business Acquisition And Divestiture Related Expenses Business Acquisition And Divestiture Related Expenses Allowance for credit losses Accounts Receivable, Credit Loss Expense (Reversal) Segments [Axis] Segments [Axis] Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member] Tax Period [Axis] Tax Period [Axis] Statutory federal income tax rate Effective Income Tax Rate Reconciliation, at Federal Statutory Income Tax Rate, Percent Derivative Instrument [Axis] Derivative Instrument [Axis] Exercise Price Award Exercise Price Purchases of property and equipment Disposal Group, Including Discontinued Operation, Payments to Acquire Property, Plant, and Equipment Disposal Group, Including Discontinued Operation, Payments to Acquire Property, Plant, and Equipment Arrangement Duration Trading Arrangement Duration Goodwill and Intangible Assets Goodwill and Intangible Assets Disclosure [Text Block] Continuing operations (in USD per share) Income (Loss) from Continuing Operations, Per Basic Share Stockholdersâ€™ equity: Equity, Attributable to Parent [Abstract] Synopsys Hungary Subsidiaries [Member] Accelerated Share Repurchase Program May 2023 Accelerated Share Repurchase Program May 2023 [Member] Accelerated Share Repurchase Program May 2023 Material Terms of Trading Arrangement Material Terms of Trading Arrangement [Text Block] Tax Year 2011 - Tax Year 2013 Tax Year 2011 Through Tax Year 2013 [Member] Tax Year 2011 Through Tax Year 2013 [Member] Debt instrument, term Debt Instrument, Term 2028 Finite-Lived Intangible Asset, Expected Amortization, Year Four All Individuals All Individuals [Member] Reporting Unit [Axis] Reporting Unit [Axis] Variable Rate [Axis] Variable Rate [Axis] Income Tax Disclosure [Abstract] Income Tax Disclosure [Abstract] Other, net Other Nonoperating Income (Expense) Statement of Stockholders' Equity [Abstract] Statement of Stockholders' Equity [Abstract] Intangible assets, net Total Intangible Assets, Net (Excluding Goodwill) Finite Lived Intangible Assets Amortization Expense [Line Items] Finite Lived Intangible Assets Amortization Expense [Line Items] Finite Lived Intangible Assets Amortization Expense [Line Items] Gross Unrealized Gains Debt Securities, Available-for-Sale, Accumulated Gross Unrealized Gain, before Tax Other long-term assets Increase (Decrease) in Other Noncurrent Assets Disposal Groups, Including Discontinued Operations [Line Items] Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Business Combination, Asset Acquisition, and Joint Venture Formation [Abstract] Patent cross-license term Litigation Settlement, Patent Cross-License Term Litigation Settlement, Patent Cross-License Term Share-based Payment Arrangement, Expensed and Capitalized, Amount [Table] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table] Disposal Groups, Including Discontinued Operations [Table] Disposal Groups, Including Discontinued Operations [Table] Accounts payable and accrued liabilities Total Accounts Payable and Accrued Liabilities, Current Gains (losses) recorded in Interest and other income (expense), net Gain (Loss) on Foreign Currency Derivative Instruments Not Designated as Hedging Instruments Liability Class [Axis] Liability Class [Axis] Maintenance and service Technology Service [Member] Gain on sale of strategic investments Gain on sale of strategic investments Gain (Loss) on Sale of Investments Intangible assets Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Finite-Lived Intangibles Current ownership percentage Business Acquisition, Current Ownership Percentage Business Acquisition, Current Ownership Percentage Contingencies Commitments and Contingencies Disclosure [Text Block] Common stock issued, net of shares withheld for employee taxes Stock Issued During Period, Value, Treasury Stock Reissued Measure: Measure [Axis] Asset Class [Domain] Asset Class [Domain] Korea KOREA, REPUBLIC OF Preferred stock, shares authorized (in shares) Preferred Stock, Shares Authorized Unrealized gains (losses) on available-for-sale securities, net of taxes AOCI, Accumulated Gain (Loss), Debt Securities, Available-for-Sale, Including Noncontrolling Interest [Member] Entity Emerging Growth Company Entity Emerging Growth Company Total liabilities Liabilities, Fair Value Disclosure Operating lease right-of use assets, net Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Current Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Current Cost of revenue Disposal Group, Including Discontinued Operation, Costs of Goods Sold Non-GAAP Measure Description Non-GAAP Measure Description [Text Block] Equity Component [Domain] Equity Component [Domain] Preferred stock, par value (in USD per share) Preferred Stock, Par or Stated Value Per Share Bridge Loan Bridge Loan [Member] Purchase of equity forward contract Payments for Repurchase of Other Equity Additional 402(v) Disclosure Additional 402(v) Disclosure [Text Block] Entity Shell Company Entity Shell Company Entity Incorporation, State or Country Code Entity Incorporation, State or Country Code Capitalized contract cost, net Capitalized Contract Cost, Net Statement [Table] Statement [Table] Design Automation reporting unit Design Automation Reporting Unit [Member] Design Automation Reporting Unit Measurement Frequency [Domain] Measurement Frequency [Domain] Summary of Significant Accounting Policies and Basis of Presentation Significant Accounting Policies [Text Block] Consolidation Items [Domain] Consolidation Items [Domain] Term Loan Agreement Term Loan Agreement [Member] Term Loan Agreement Income (loss) from discontinued operations before income taxes Discontinued Operation, Income (Loss) from Discontinued Operation, before Income Tax Schedule of Effects on Changes in Fair Values of Non-Designated Forward Contracts Derivatives Not Designated as Hedging Instruments [Table Text Block] Term Loan Agreement, Tranche Two Term Loan Agreement, Tranche Two [Member] Term Loan Agreement, Tranche Two Common stock issued, net of shares withheld for employee taxes (in shares) Reissuance of treasury stock Stock Issued During Period, Shares, Treasury Stock Reissued Senior Unsecured Committed Multicurrency Revolving Credit Facility Senior Unsecured Committed Multicurrency Revolving Credit Facility [Member] Senior Unsecured Committed Multicurrency Revolving Credit Facility QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) Fair Value, Inputs, Level 1 [Member] Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Axis] Change in foreign currency translation adjustment Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Adjustment, Net of Tax Accelerated Share Repurchase Program February 2023 Accelerated Share Repurchase Program February 2023 [Member] Accelerated Share Repurchase Program February 2023 Total current assets Assets, Current 2029 and thereafter Finite-Lived Intangible Asset, Expected Amortization, After Year Four Finite-Lived Intangible Asset, Expected Amortization, After Year Four Statement of Cash Flows [Abstract] Statement of Cash Flows [Abstract] Tax Period [Domain] Tax Period [Domain] Intangible assets, net Disposal Group, Including Discontinued Operation, Intangible Assets, Current Schedule of Long-term Debt Instruments [Table] Schedule of Long-Term Debt Instruments [Table] Income Taxes Income Tax Disclosure [Text Block] Accumulated Other Comprehensive Income (Loss), Net of Tax [Abstract] Accumulated Other Comprehensive Income (Loss), Net of Tax [Abstract] 2027 Lessee, Operating Lease, Liability, to be Paid, Year Four Stock Repurchase Program [Abstract] Stock Repurchase Program [Abstract] Stock Repurchase Program Contract rights intangible Contractual Rights [Member] DeferredÂ compensationÂ plan liabilities Other Noncurrent Liabilities [Member] Weighted-average discount rate Operating Lease, Weighted Average Discount Rate, Percent Sales Based Royalties Sales Based Royalties [Member] Sales Based Royalties [Member] Net cash used in financing activities Net Cash Provided by (Used in) Financing Activities Credit Facility [Axis] Credit Facility [Axis] Entity Registrant Name Entity Registrant Name Payment to acquire business Payments to Acquire Businesses, Gross Adjustment to Non-PEO NEO Compensation Footnote Adjustment to Non-PEO NEO Compensation Footnote [Text Block] Amortization and depreciation Depreciation, Depletion and Amortization Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table] Gross margin Gross Profit Reclassification out of Accumulated Other Comprehensive Income [Axis] Reclassification out of Accumulated Other Comprehensive Income [Axis] Fair Value as of Grant Date Award Grant Date Fair Value SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) Fair Value, Inputs, Level 2 [Member] Geographical [Domain] Geographical [Domain] Amortization of capitalized costs to obtain revenue contracts Capitalized Contract Cost, Amortization 2029 and thereafter Lessor, Operating Lease, Payment to be Received, after Year Four Lessor, Operating Lease, Payment to be Received, after Year Four Schedule of Disaggregation of Revenue Disaggregation of Revenue [Table Text Block] Intangible assets, net Disposal Group, Including Discontinued Operation, Intangible Assets Unbilled receivables Unbilled Contracts Receivable Schedule of Stock Compensation Arrangements Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Principles of Consolidation Consolidation, Policy [Policy Text Block] Restatement Determination Date: Restatement Determination Date [Axis] Title of 12(b) Security Title of 12(b) Security Other long-term liabilities: Other Liabilities, Noncurrent [Abstract] Concentration Risk Type [Axis] Concentration Risk Type [Axis] Common stock, $0.01 par value: 400,000 shares authorized; 153,613 and 152,053 shares outstanding, respectively Common Stock, Value, Issued Revenue Revenue From Contract With Customer, Excluding Assessed Tax [Member] Revenue From Contract With Customer, Excluding Assessed Tax Share-based Payment Arrangement [Abstract] Share-Based Payment Arrangement [Abstract] Income Tax Authority, Name [Domain] Income Tax Authority, Name [Domain] Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Assets [Line Items] Fair Value by Liability Class [Domain] Fair Value by Liability Class [Domain] Cash flows from financing activities: Net Cash Provided by (Used in) Financing Activities [Abstract] Preferred stock, $0.01 par value: 2,000 shares authorized; none outstanding Preferred Stock, Value, Issued ForeignÂ currencyÂ derivativeÂ contracts Forward Contracts [Member] Reporting Unit [Domain] Reporting Unit [Domain] Basic net income per share (in USD per share) Basic net income per share (in USD per share) Earnings Per Share, Basic Cash paid for amounts included in the measurement of operating lease liabilities Operating Lease, Payments Award Timing MNPI Disclosure Award Timing MNPI Disclosure [Text Block] Ownership [Domain] Ownership [Domain] Aggregate Pension Adjustments Service Cost Aggregate Pension Adjustments Service Cost [Member] Total current liabilities Liabilities, Current Volatility Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Weighted Average Volatility Rate 2025 Finite-Lived Intangible Asset, Expected Amortization, Year One Hungarian Tax Authority Hungarian Tax Authority [Member] Hungarian Tax Authority [Member] Amount outstanding Long-Term Line of Credit Operating expenses Disposal Group, Including Discontinued Operation, Operating Expense Other Other Sundry Liabilities, Noncurrent Reduction of operating lease right-of-use assets Disposal Group, Including Discontinued Operation, Operating Lease, Right-of-Use Asset, Periodic Reduction Disposal Group, Including Discontinued Operation, Operating Lease, Right-of-Use Asset, Periodic Reduction Operating Activities [Domain] Operating Activities [Domain] Accelerated Share Repurchases [Line Items] Accelerated Share Repurchases [Line Items] Stock-Based Compensation Share-Based Payment Arrangement [Text Block] Taxes [Table] Taxes [Table] Taxes [Table] Entity Address, City or Town Entity Address, City or Town Long-term liabilities held for sale Total long-term liabilities held for sale Disposal Group, Including Discontinued Operation, Liabilities, Noncurrent Intrinsic value of awards exercised Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period, Intrinsic Value Stock-based compensation expense before taxes Stock-based compensation expense Share-Based Payment Arrangement, Expense Discontinued Operations Disposal Groups, Including Discontinued Operations, Disclosure [Text Block] Accumulated Other Comprehensive Income (Loss) Comprehensive Income (Loss) Note [Text Block] Loss Contingencies [Table] Loss Contingencies [Table] Business Acquisition [Axis] Business Acquisition [Axis] Schedule of Intangible Assets Schedule of Finite-Lived Intangible Assets [Table Text Block] Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member] Foreign Tax Authority Foreign Tax Jurisdiction [Member] Revenue Revenue from Contract with Customer [Text Block] Document Fiscal Year Focus Document Fiscal Year Focus Product Concentration Risk Product Concentration Risk [Member] Purchases of treasury stock Total cost of the repurchased shares Treasury Stock, Value, Acquired, Cost Method Schedule of Revenues from External Customers [Line Items] Revenue from External Customer [Line Items] Debt Instrument, Name [Domain] Debt Instrument, Name [Domain] Total assets Assets, Fair Value Disclosure Other accrued liabilities Other Accrued Liabilities, Current Document Period End Date Document Period End Date Total future minimum lease payments Lessee, Operating Lease, Liability, to be Paid Accounts payable and accrued liabilities Disposal Group, Including Discontinued Operation, Accounts Payable and Accrued Liabilities, Current ABR ABR [Member] ABR Asset Class [Axis] Asset Class [Axis] Insider Trading Arrangements [Line Items] Balance Sheet Components Supplemental Balance Sheet Disclosures [Text Block] Reconciling items: Segment Reporting, Reconciling Item, Excluding Corporate Nonsegment [Member] 2026 Lessee, Operating Lease, Liability, to be Paid, Year Three Equity forward contract, net Adjustments To Additional Paid In Capital Equity Forward Contract Adjustments to additional paid in capital, equity forward contract. Contract with customer, liability, revenue recognized Contract with Customer, Liability, Revenue Recognized Prepaid and other current assets Prepaid Expense and Other Assets, Current Foreign Exchange Contracts Foreign Exchange Contracts Foreign Exchange Contract [Member] Document Transition Report Document Transition Report Purchases of strategic investments Payments to Acquire Other Investments Entity Current Reporting Status Entity Current Reporting Status Retained Earnings Retained Earnings [Member] Capitalized software development costs Capitalized Software Development Costs [Member] Capitalized Software Development Costs [Member] Percent of equity interests held by non-controlling interest Subsidiary, Ownership Percentage, Noncontrolling Owner Amortization of bridge financing costs Amortization of Debt Issuance Costs Accelerated Share Repurchases, Date [Domain] Accelerated Share Repurchases, Date [Domain] Income Tax Authority, Name [Axis] Income Tax Authority, Name [Axis] Accelerated Share Repurchases, Date [Axis] Accelerated Share Repurchases, Date [Axis] Schedule of Revenues from External Customers [Table] Schedule of Revenues from External Customers and Long-Lived Assets [Table] Increase (Decrease) in Stockholders' Equity [Roll Forward] Increase (Decrease) in Stockholders' Equity [Roll Forward] Executive Category: Executive Category [Axis] Reclassifications into net income Reclassification from AOCI, Current Period, Net of Tax, Attributable to Parent Adjusted operating margin Operating Margin, Percentage Operating Margin, Percentage Income Statement Location [Domain] Statement of Income Location, Balance [Domain] Company Selected Measure Name Company Selected Measure Name EX-101.PRE 9 snps-20240731_pre.xml XBRL TAXONOMY EXTENSION PRESENTATION LINKBASE DOCUMENT GRAPHIC 10 snps-20240731_g1.jpg begin 644 snps-20240731_g1.jpg M_]C_X 02D9)1@ ! @$ 8 !@ #_[0KZ4&AO=&]S:&]P(#,N, X0DE- ^T M ! 8 $ 0!@ 0 !.$))300- $ 'CA"24T$&0 M ! !XX0DE- _, D $.$))300* ! X M0DE-)Q H 0 ".$))30/U !("]F9@ ! &QF9@ & M ! "]F9@ ! *&9F@ & ! #(! %H & ! #4 M ! "T & !.$))30/X !P # _____ M_____ ^@_____P/H /_____ M_____\#Z # _____ M ^@ #A"24T$" $ $) "0 X0DE- !!X 0 M .$))300: !M !@ * +8 & &< ,P P M '4 - T 0 ! "V M* X0DE-!!$ M $! #A"24T$% ! (X0DE-! P "%X ! < !D M %0 @T "$(& !]C_X 02D9)1@ ! @$ 2 !(# [@ .061O8F4 M9(! _]L A ," @("0@,"0D,$0L*"Q$5#PP,#Q48$Q,5$Q,8$0P,# P, M#!$,# P,# P,# P,# P,# P,# P,# P,# P,# P, 0T+"PT.#1 .#A 4#@X. M%!0.#@X.%!$,# P,#!$1# P,# P,$0P,# P,# P,# P,# P,# P,# P, M# P,# S_P 1" 9 ' # 2(A$! Q$!]T ! ' \0!/P 04! 0$! 0$ M P ! @0%!@<("0H+ 0 !!0$! 0$! 0 ! (#! 4&!P@) M"@L0 $$ 0,"! (%!P8(!0,,,P$ A$#!"$2,05!46$3(G&!,@84D:&Q0B,D M%5+!8C,T)E\K.$P]-U MX_-&)Y2DA;25Q-3D]*6UQ=7E]59F=H:6IK;&UNV-T=79W>'EZ>WQ]?G]Q$ M @(! @0$ P0%!@<'!@4U 0 "$0,A,1($05%A<2(3!3*!D12AL4(CP5+1\#,D M8N%R@I)#4Q5C+RLX3#TW7C\T:4 MI(6TE<34Y/2EM<75Y?569G:&EJ:VQM;F]B7I[?'_]H # ,! (1 M Q$ /P"W]5\' ZWU+J^/UZS]&@ M]4^KO7L#ZHE_4K#Z^#E-LIQK7>W8QN5Z=VQ=%UCI/2/K2UW4^ M@Y;&]6PB-F50ZJ)I]+9C? 6;ZO='OE]0Q**LAFYT()?D^LYVUW M^$MJZJ?5_R,SK_1NDY(='2V.R,FMVOIV%_VVVK;^;^G=AU/6W]9?_RB]%_J M4 \ GS*1T@>"/:<_^\3MIYEJ_7/IV-]7\[I-_1O4PK+K'>H:[;(<&.HV@M>] MS=OZ1^]O^$_/17T,ZU_C$R\#J9=DX6.PNIQG.<*VEM>.X?HVG;]*VQ[D3_&= M_2.B_P#&V?\ 58R72_\ \]'4/^+=_P">\1")/MB7Z7!/U?I?,@;7X%@RAG1?

M\8F+@=,+\?"R&;K<9KW&LEU>2X_HW';].JM[/W%3_P 7O1NG=9Q<[]I5NR#2 MZH5DV6-+0YKG.VNK>Q:'4_\ \J/3_P#BV_\ GK,6;_B\Z4_J6-F[<_+P!6ZL M$8CV,W[FN]UGJ57.W-_-V;$2?U9-T>"'JZ_-)73Z!R*>H=6=]3\MK,G(=75F M4A\/<0RM]-WL>^?9CV97H>S^:]7^NNES/JF,WI_3.H?4XU8]P;NMR6VO87&& M[=S@+=UC+M_K,L_XJU;E.#]5OJ?TY].1:*L?-<6VORCZGJG:1Z3X;LV>EN_1 M^GL7/=3KO^H?4*L_I5AMZ/U!Q-N \S! W.])SOSO2_F+?^LW^K^CV+W.(^CT MZDQL>G)IZ@57>W^^V.FO?T7_ !BY6"YSAC=4!?4'$[9>#E,VM^C[;F9E+53L MMS>L_6KKF=A&QSNEXE[,(5DN_3,8_$QO3;]'>^_[9=4M;Z]X)KR^F_6"L$-P M"\WO',,:L9KQ6S)>ZVRT\"JF:MSO^N-O ML_ZXF\0X/]^Q/]QJ/YVSWV>I_A%T./\ 5WKYZ=TZG)R@[)QFO;:\W6&#ZCW4V,L#=]^R MIU?TO1LWX]7Z?T_66=U_Q#2[ZZ_5;*;3=27.R#7_-W .V7N+#M]^X?IF?0R M/^/_ $RZKZN]6=UGHV-U%]8JLN#A8P&0',Z_F_)O< T16W_!UCZ#&5L_??\ \8MY9'UO_P#$MU7_,*V_P#4 ME32]RCQ[6..N'B_J\7"N-]?J\[_BVQ[,NWJ?7\@?ILNTUM/A)^TY '\G?;57 M_P!86UU/ZK.S_K)@]<&7Z0PFL:]1NS=ZW^B0?\7?_B7I_P"- MO_\ /MBZ5')Q^[+A[?\ C=>*C?$:<#ZT?59WU@LP7MR_LOV)[GD>GZF_<:G1 M_.5;/YE"SOJCD'KK^O=*Z@<'+M$7,?4+ZW>UE3O9OIVJO\]=(DA'W>$5\ MM2J^&N']_U"WF\'ZI9#>NLZ]U7J!SLNH;:.6,J%%;?:^H>S?$W\M1NN&N']"J4;<;ZT? M5NGZQ8+,6RYV.^I_J56M <)VNK=]2^1]7&-3UGK'VC%Q3 M(KIQFTO=(VNW6^K=[MGM_FUUJ24/=HEZC?I> _\)/A[G_'5T%/(,^I76:NE6=%KZTT=.M+MS#B@V;7 MN]1[/5^T#Z;OY"Z'HO2:.C],IZ=0]UC*0?>^-SBYSK7N.T-;]-ZO)(9/#EW.!=!43(C)A$ @$"! ,% P<)!@0' 0(#$00 (04&,1('05%Q(A-A M@;&1H3)SLS0VP43)23;%FP"\@MT(9EJSNQ52T MC"CMFQ-.8"GE%%I2TMO$O.JC,CB305)XJO?[,2AY>..+$?&O7,&97 MU>R#FBOSUSMMBJTN:9N;55XU_"HQE/1DI!S=:A:M*QCA-=,Q52&46(IV2.3T MC)F%0#TYWKJ.]YM6T_7K.U>&*-7'*AH:DJ0RLS@CNX4SK6N6MI=_+J#317,: M%0 >']]<:)M+8,\;* <4.J&XEQO%GLE]Q!EK)& K[8?&=OU7P!QC8:&P6*-LM;P=D=6^&0G)$B[J^SLO0[/=?>7*3OU'A M&UKG7J:!CF,)40* =@]G3W3:^MM?UC?6I^BC0/=Q^GY1E&HD5*"F545;^W&6 ME2+:JQ4=)5..%#TV44D;Q647*97N(@)1\>H?O'J/K6@;GU32;*PL#:0 M.H7GA))!16-2'7M)X4RQI7VJW%M=S0QQQ\BD4JOL!{\![WDB,N\56[]U7<=SJ%LMP+*81Q+(R@EI M*N5.1:B#EJ*"I-*T(%:-9P2373RH&]-J ',<3GXY8TOCBX5M8-J-2\=[)["6 MW,5QR+F1C:)1P$57F46D "RB[URJW,9;TP;^* M8&/M;UZH:]H&XKW1-&M[:*RMBH%4+%B45S7S !:M0!0#E7FSQG?ZO<6UU);P M(@C2G9QRK^7 IMC)?,?#SOO<<9ZPYQR,:ET!]2+)#PMBG%5HFU5FT5^%N#BI M9&K,G8&BQZ9UVC;7VNZ5!_%3!U9E7- M&5F0/&QJZY $ L?T3S#B2MQ%JMDDES"O.U1D.!! (J#Q']AB4'U%=[L([DX3D M(&XWG 8,)A\R3(I)93SB]I# M_P!LZHDT2.Z:E*M2H/'*#O[,:^@HO\),&)$I_=7!(,#<'FN^>-3, 935SEM M)3LCY4P%BG(\I)Q>28>4K;6VWG',%8Y#_P";E*F=TO7V\Q*G,1JG(-W I%*3 MWH![F&$ZOU4UG2=Q:Q8#2K"6RM[R6, Q$,4CD91Y@]..@XE2*Y\N!\^L3PW4 M\?HQF-78<,Z D<:\?=@3?"+N;L76-QZ-AIUE&YVO$][I^6QF:!;;*V"NM75 M#P[=LAP,C -)9P]+79%.2I=LHJR] 56BATS^10(!;#ZI[9T6?;5UJ:V$4>H M12P\LB*%8B29(V#$ 7TP)5*Y@4.; &O?QOQ+49K? M^6G?]D8]V[S-E&R0%U_7-GF$XBP%;$BVM7JLU9FEX /TUW9?;YM=;M=PVMM*MN M8J>3)A+ZM0RL64TY_J 9$UPQI5[)]"7"7**0M.SC6O$<.S&!WS?9KS3QW<=. M]JN-EE;I/1>5=>LL6QM*R+%>0-5F_Q!\H'J.G(M%,8>YP#IW:2:7I>\]Z;2M[:-;5&BN(D(!Y>>*/U@M1DH9TY5X <.&,K(0PW] M_9*@" JRCNJ!S>ZI%,,K<(NQ"FP7'WBLLM*.)2X8:=R^$[6N]9^_DJBH "/B/:D.J>C#1]XZAZ<86VN0)TH*#SU#^S_, M5SX$8C^L0>A2?4%$?S#W\?GKA;'G$V'NN<>124Q)C.>L3ACB:+]M8>]:#5V5= MLD)F^R:_XW8RH(-GB)%98;/:BPRAC@01/&E+_P")0,.[NE6C6NE;+CU&^A0/ M<,\[,P!Y8QY5XCARISC];$@T>! (; 2R**L2QKW=GS"OOQS7EFRWF_$V9V&B$ M=DZV,,-:NXGPA0F59A+#+1T3=+-+X:OGO=/-.TK4=,?=KV$9U._N)Y"S*"443.B1H2/*JJ@X4J>)-!3/3(H9 M83>F,>K(S&M. YB !W 8)UO]PAZIZJ:/9(SCC>V9A6RSA^'JLTE89NRP[B* ML[][;JK7Y/W^ :5]F6*0].3669^Y.$E6RHD]11P4O8T$V?U3W!N#=5EI5];V MPTZY9UY55@5 1V%&+&O !N8$$5H%P.L=8N;F\CAD5/2UCN+*0QJH9B&[:4I7W\3W8MF%]LJ8VMS3\Q621HJN5\>(Y)4J5T9S M41 :NJ9JRC%RS_+LQ"1D7::GL8]DV..XZO(3QY#)_BNLO&O3.))V2.]>S@/\ M.+G346[%O)Z7.A5FNO0B($(8E7M@#*<-(8^6UR =>5%+HHOEYHAS\II44J_*/ MHUR*_2)I1.\9"O\ _]#L&^VA6Q?%=LQ&;IZ[+=6/#\;DEQ>*=;B1JTNIB^1F MI Q3T'*<<)0*-
>EBS2T2UD2J@E(M5/24.V>*$(;JS:.[M%W_*%)M?6@$U)H M.1TK3U0H_P R(_I#E#E:54BH#*"<3*RO8-2MS:7&4O+0CO\ :/;VT[/##%VD M6\^I7*ICM@PN6/<>.LPT9L22N&$LFP%=NBD" [<%,R<6O'ZEFBUR3U8?>F!3N MFZ1'3(5("O"$$Z)UZ7W3M3<73^]=[O"T"J51G;:'87],K-.K ML-6(9+),-Z-LI3Y*,AFT7D MDC1S*'9V9F])O(XJQ)^@S4[L:]K=/%>07$CDD,*DFN7_,3A3CZ?/9Z+P)M7 MDK'%ZF_T_1F.@T9V[#+*2OS*0?@H8I4B1]%0LQ.WB*AE52%#VC MV'H7K%H4FK[?L;VTBY[NVN% IQ*3$1D#QD]+V4!Q)MW-I/<3[,/W;"PTM MD4YA H\3E7XG!+OJ?OWWI]\)9C_.<>=0?H1]TW)]9#^[)@?MWZ%UXK^7!P>& MC^LS5'X2MOS.O'55]3/QSN'ZQ/LDP'U;^HW/B/@,*O?4)_V-V7 $N+/RM]U? MW1S\%0?S$OQ&))H7W!?UCB0WU 7[%XU?X\3OY/B/H-T?^]X_G5^,V&-#^GJ M'U@_YL,-\-']9FJ/PE;?F=>.J:ZF?CGNAND7X&TWZR[5L2?1/Z=%XM\3CK/U#7^U^N7\'L0_,G-?0_HU^' MM;_W6;[*##6A?=9_KF^"X9)U!WRTHQGHUJRRNVV.N\)-T757!<=:ZH?,-">7 M:'F*]B:JLIJ <4EA.NK6:QQK]HW5CR,S/2."&3%/S 2]4CN3:6Z+[=>OM:[M>O7BEU"7)2UD(:5J'E-,V.=:4 MI[<*<<&-~=V'DXU_*2)<2D3&PVGEF%)NJLU803_ /DJMF=29TP[-F+F5GF MK/S,)2BNZ3(^1R@/0O5:98=BZQ60+(S0!>\L)XFH.\@*3X GLQ)]98+IT^= M#5:?^('\F.][2Z;;*
<*VT]/VJP2*]SPG$VMTMC^\R3,9%BP8V)K(1DGB',#% MFLDJV=/X!\NR3D2>[H2:9BN6:C9\F=!J(T#'YR^_L[.W+BS[I)NYJMR=8Y83 MQ*I3ULHTECWO&'\@Q5>LEDHCM^#!&3EJX:4:+FF:/+OD42(2C9-(%?!)-VDW M8^FW!A4 ^/M]GR8RO)KJ_YLX]\^XCIU8BHIW6:7(9*QW!5V,:Q;9M;<>.U M+^A'PL;'HMV*#RU^XO(X?N 0YY,YC"4QA4!O8NO3:7O+2-1N9V99)1%(S$DE M)!Z=6)SHE0W[(\,8Z=S['MG#H$4C3^#8U_)6"+BP,57TY.QTR575.()G%0L.F'83 4IKPZO[9EU MJ#;UU9I6Z%VMN2!^;.0%)]BN /VSB0ZW:-<+;.@_.%]SBA+GK%LN^UN1WATU#D<61C.C-0CLIE 5*'BN5[/%K=E#*)DB'[")@ MZ,]1[Z';.P9["T\HDC2TC'_"5Y6'_P!2N/&F']4D6TTUHTRJ @*?^4'!7^< MSB?R#E2V6;=_7MH_N=A<043_ ,VXP;)@XGW#&EUQC 1UZHR"906F!95B$;-Y M"*(!W8@V*NV!83JI$K[I3U"L]/MX-JZRPBA#GT)3DH+L6,8G'VUT# :I[@(UR+S2JUCJS6[!9&+%2B MYR]Q!@VC8^7;2HKL8S*#UXB!S-%$RLI-P4#-!3<'(TZ%[_Z:WFWIIMP;;+MI M89E4GU(*U)((S,0';])!]*J@MAK4M*DMF:YM:F+B0.*_P"'P[>_#!%7Q[0: M0H\5I=']I05D2(IR"E7K4+ */DVQE#-R/#Q+)H9R1 RQQ(!Q,!1,/;MW'JGI M[R\N@HNKN20+PYF9J5XTJ33 -I'>G.Y/B:XW#K6QAC__T7@&.9=8\V"]QC%Y M7P3EDUKBY-@_Q_&WR@7I2Q0PLUCR[1S5FDK**2L<$>50S@AD#I@D!A.'B]% MGTS7=+Y;^33[NW]-@1(8Y(^5JY$.0*&O#.M>&'S%<0TD,3K0\:$4]^$Y^5K0 M29XN\QXVVKU'O<_1*%;+D[;T]M'S+M.V8COR$[$79/@72,51QTKT^W?%OW3+[;^X(1)KN.(%R5')-'4#F(_-D5J5I3.CI M0B@E6F7PU&*2VND#.!GW,_.V$?XC#/\ Q;[C3V\6H5.S)Q[D(ML4W,UA9&TU46:AIV';&.<6S6>A)1D[50#[C9VLLBGW33(8:'W[M']:NX[G3+ M:0M9LJR1US8(]?*3VE6# 'M !.9. ([J5HMG=/$AK'0$>![/=A2W>3 !M-]J^ M1.Y-&2D7#.6J%:PD\0[MV:4ANHVE9*;CXY,#)K*Q4'AACD6 'V=DG*"0F,(" M05>A]J:P-S;?V9;,W-*#S3CB:61 4GVM.;:3V@GVTDUG/_%VU@A-3Q;_ ./^ M]N4X(S],MK\!4]B=I91D(&4&(P32GIBF /3+^'7O(I \ONG ZGZ: ABA[!(H M7O\ :'4+ZZ:QGHN@1MWSN/ECC_\ U^;&AN&?_(M@?^(_ ?EQIWU/W[[T^^$L MQ_G./.MGH1JTW)]9#^[)C/;OT+KQ7\N#@\-']9FJ/PE;?F=>.JKZF?CG^H3_L;LO^)<6?E;[J_NCGX*@_F)?B,230ON"_K'$AOJ M OV+QJ_QXG?R?$?0;H_]WQ_.K\9L,:']/4/K!_S88;X:/ZS-4?A*V_,Z\=4 MUU,_'.X?K$^R3 +5OZC<^(^ PICSX?V9YC^$L0?+&L]=#=(OP-IOUDWVK8D^ MB?TZ+Q;XG'6?J&O]KJG3S MB;X\LCZD:M9"NNL]7GKE?-<\(W.VSCBSY$;KS5FM&,ZQ.3TLN@QN+5D@M(RK MY58Q$4DTBF.($*4H 5'N3J%O*RW%K]G:Z[(EM#>SHBA8_*JRLJC-"<@ ,R3 M@)=:G?1W5S&EP0BR, *#@":=F"=8;UBU?U1AIMWAG$.,,-QYXY9>T62%A8R) MDG,/'%,^5-9KD^\YI[$1I4C+=GCPZ#< ,< +[1Z@FIZ[KVX98EU/4I[E^;R* MS$@,45/# Z6XN;DJ)96<]@_N&,0QSMICM&U<)0F;];<]IW.NR[M&?QC6LJ8WR(]GZR9OX3(.:Q!6"4?N8Y!!0!55!+LC]TWD40 >G6TG<^@-#]D MNE7UF8G!65HI8PK5\M&90 >X5SQD8;NV*S&&1*'(E2*'Q(PG;R8:,6[B(V6Q M1G[4[)5AJM3OTK:YG&BA')7%BQQ.5Q:+5GJ']J/@>-KE2W<58D"-PD$EP>L_ M6:OTUQ3%9STGL;&TS_='4#$N?K!!LH"SVIA-PUSB(\% M!APM-0L$I5)M[$)N%%UD8>;<1(O6Z"BBIVR3D$#J*&3%0W.V\] 3;&Y-1T>& M4O;QE60GZ7(ZAU!I^"EF\1Y: M?*2?V<'3^FGU]-5\$JV1EV":LENWB5A-VN MQG;*E >YEH4/(I1&I^N&L>QJVEZ)&_DMXC(X[.>0T4'YJBU'L? ;<$ --# M;@Y**GQ/^ ^?!X;7MWJ?0[<_Q_>-GM>*9?(IVUCY2DVO-6-J[;HU^^0;.63) M_6Y>RLYEF[>-GB*B2:B)3J$5(8H"!BB-2V^W-PW=LEY:Z#>RVC D.D$K(0*@ MD,%*D @U(/8 M8*2P(DPK=[9NYE)*7O4*FD"9(.^-',D5T]*02MI1))10"E?=S.[AZ6=0;X7E MEM35B9K27R0NU"0*\GT3FCZG)ZD=G-YD.2GM'L]H^'ACLW M 9R"Y0/Y.7S=3'61%989U>V=IV@W-EJ^E1B*WNGXU MH>X_EQ.[F;Y+-?=^L>X3P?K PR'>9Z(R2-WDG[FG2,.11<]5D8".K$)"KE5G MYN91[I MD9*H3S5:/LD%!3;: AHA&Q1@I'$3*O4:Z+L6JH%700<)E6*FJ!TR51U5UG3 M]:W9+/IMPLMM% D?.IJK,I9CRD9$#FI49$@TJ*$AM8GBN+TM$P90H%1P/'A\ MN ;?4I9LCK)L=B3!4*W8$/C3'1;;=))JBV)(2%AN\@[_$!S#@B?O;A.J5J M.%XR(H<2(A87 D* JG$UK=$-+>#1-1U:4FD\W(@-:!4 YF'9YV-&IQ],5X#! MC;\)6WEF/YS4'@./RGX89(XM-?AUJT.UWQT]:)M+-(4M'(EU $RD=#:\EKK7 M:092!BD("SRO-IE")\O:'IL" !C &&DM_:Q_KF[=:O5:L"R^FG=R1>0$>QB MI?Q8X :E/_$7L\@/EK0> R^?C[\ '^I^_?>GWPEF/\YQYU;W0C[IN3ZR']V3 M!O;OT+KQ7\N#@\-']9FJ/PE;?F=>.JKZF?CG^H3 M_L;LO^)<6?E;[J_NCGX*@_F)?B,230ON"_K'!&>;;4_-N:-8]%,R8DHECR+# M8JQ"6O9!B:C$NYZP03*UU3&S^"L1(,,3=2KZ$(K!/$GRZ2)B,?\ TG4$$SF, M2%=+=PZ7IFN[LTS4;M(9;BYYHRY"JQ1Y0R\QH WF4J"?-F!F,]#1[F&&XO8I M7"EGJ*Y T)J/GQ<\:'-7J7K9J#C+7C/$?E"H7_$);+7GJL73?U#"SC60N5DL M#1VS5:21)*/>LF\L5L\;.VZ(D<)B*9CE,($QWSTOW%KFX[[6=(>"2SN>5A5^ M5E(15(-10@TJ!.7&G:M0TBZN+J2>$J4>AXTID!@1VT*F2.7CD"NU\U3P]D. M2K=ZD:'4(=Y,P:A&M:BJY5(*M+VG(TW%*2M;IT&!5X;TVQDTP%180(M:Q=!%CTXV?:VFX-2A6>)9'(5LV+.S@G123U=L:K*10MJ@W^BFEG\2]..\Y2KDA<<99%J,29N65M5$MU M4\IZ5))5J'@P%#D:=DWOHQJ-D4M9%8D@C/++L]F)4!LE:XZ!X5QKER!7]E]*I=K5,5=YXA)UY"XW:>L,/&3"93&] MUF"0SYNHZ;F[*-5E#(J "B9@"CNH^KV.M[OU2^TZ826GD0..#$\/8)'MTF'ZI>XF'Q.';L9LO#@/FIA,?FIP5F;$O(;E+/-EQQ9 MC8GO%IQ_[Z:C4JE1'EKBW<&\N3IK-R4M+2D%'2":#]Q!1:2"*8O3)E;.%G'@@=0R2 MX)Y=;-=TN]32=)L[Q);N*1WD",$!4 !B,@QS/+6H J0*BONOW$,@AA1PSJ2 M33LR[?;AJOKG_$:Q_]-^B2B8N9;@TEXV/E6@*%6!K),V[YN"I ,4BH(NDU4P M4(4X@!NW< $?^_6:221-S1N5;O!(/S8]! (S!H<6<96*U"KG=0U>@XETHB9NH MYC(E@P7.@QB]@D&KT#G.G@F@JGD31 MCHZB/BFLVP]32,B"EA8KI86*Z6%BNEA8P$C5*M+N1>2U:@)1X8A$S.Y&'CGKD4TP[$(*[ELJ MJ)" /L#OV#IY+BXC7ECG=5[@Q ^8XR#,,@Q QEVC-I'MD6;']W9,VY 3;M&B M"39L@F B5I@"Q72PL6 M,C%QDNV%G+1S&49F.10S21:-WK85$QD[.*#E-5(3D$?8/;N'6:221MS1N5;O M!H?FQZ"1F#0XMHJ @8/U_P $A(B']Z]+WG*C6CZ_NB*/K>CZQ_' MR[^/D/;[1Z]DFFEIZLK-3A4DT^7"+,>))Q;VNSP=)]]DN=F?HQ5;J,!,6>P2 M;@0*A'033 M'JJ794458F@]^//]T)K4[R#\M-2O=S;'6:V7-%IV3OK9+5+:/L)9P(RWZU..:3Q& M)O>LMCIC(G$($'BMQ,9!VR@XQJZ1,8ADS&2<(-4U4Q,0X@(@(=P @$0Z? >YN9%*/<.5/86)'QQD78BA8TQL?3&,<5TL+'_]D! end XML 12 R1.htm IDEA: XBRL DOCUMENT v3.24.2.u1 COVER - shares 9 Months Ended Jul. 31, 2024 Aug. 21, 2024 Cover [Abstract] Â Â Document Type 10-Q Â Document Quarterly Report true Â Document Period End Date Jul. 31, 2024 Â Document Transition Report false Â Entity File Number 000-19807 Â Entity Registrant Name SYNOPSYS, INC. Â Entity Incorporation, State or Country Code DE Â Entity Tax Identification Number 56-1546236 Â Entity Address, Address Line One 675 ALMANOR AVE Â Entity Address, City or Town SUNNYVALE Â Entity Address, State or Province CA Â Entity Address, Postal Zip Code 94085 Â City Area Code 650 Â Local Phone Number 584-5000 Â Title of 12(b) Security Common Stock(par value of $0.01 per share) Â Trading Symbol SNPS Â Security Exchange Name NASDAQ Â Entity Current Reporting Status Yes Â Entity Interactive Data Current Yes Â Entity Filer Category Large Accelerated Filer Â Entity Small Business false Â Entity Emerging Growth Company false Â Entity Shell Company false Â Entity Common Stock, Shares Outstanding Â 153,613,734 Amendment Flag false Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q3 Â Entity Central Index Key 0000883241 Â Current Fiscal Year End Date --10-31 Â X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei_CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 - Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumberItemType Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_

Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 13 R2.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED BALANCE SHEETS - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Current assets: Â Â Cash and cash equivalents $ 1,839,815 $ 1,433,966 Short-term investments 154,431 151,639 Total cash, cash equivalents and short-term investments 1,994,246 1,585,605 Accounts receivable, net 805,198 856,660 Inventories 386,009 325,590 Prepaid and other current assets 914,598 548,115 Current assets held for sale 1,027,702 114,654 Total current assets 5,127,753 3,430,624 Property and equipment, net 571,408 549,837 Operating lease right-of-use assets, net 556,593 559,923 Goodwill 3,444,349 3,346,065 Intangible assets, net 266,092 239,577 Deferred income taxes 1,102,716 853,526 Other long-term assets 579,773 444,820 Long-term assets held for sale 0 908,759 Total assets 11,648,684 10,333,131 Current liabilities: Â Â Accounts payable and accrued liabilities 756,983 1,059,914 Operating lease liabilities 89,869 79,832 Deferred revenue 1,356,804 1,559,461 Current liabilities held for sale 331,294 286,244 Total current liabilities 2,534,950 2,985,451 Long-term operating lease liabilities 568,407 579,686 Long-term deferred revenue 319,080 150,827 Long-term debt 15,599 18,078 Other long-term liabilities 465,233 381,531 Long-term liabilities held for sale 0 33,257 Total liabilities 3,903,269 4,148,830 Redeemable non-controlling interest 31,043 31,043 Stockholdersâ€™ equity: Â Â Preferred stock, $0.01 par value: 2,000 shares authorized; none outstanding 0 0 Common stock, $0.01 par value: 400,000 shares authorized; 153,613 and 152,053 shares outstanding, respectively 1,536 1,521 Capital in excess of par value 1,192,363 1,276,152 Retained earnings 7,884,044 6,741,699 Treasury stock, at cost: 3,648 and 5,207 shares, respectively (1,188,435) (1,675,650) Accumulated other comprehensive income (loss) (180,112) (196,414) Total Synopsys stockholdersâ€™ equity 7,709,396 6,147,308 Non-controlling interest 4,976 5,950 Total stockholdersâ€™ equity 7,714,372 6,153,258 Total liabilities, redeemable non-controlling interest and stockholdersâ€™ equity $ 11,648,684 $ 10,333,131 X - DefinitionSum of the carrying values as of the balance sheet date of obligations incurred through that date and due within one year (or the operating cycle, if longer), including liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received, taxes, interest, rent and utilities, accrued salaries and bonuses, payroll taxes and fringe benefits. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14 + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher

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Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCash includes currency on hand as well as demand deposits with banks or financial institutions. It also includes other kinds of accounts that have the general characteristics of demand deposits in that the customer may deposit additional funds at any time and effectively may withdraw funds at any time without prior notice or penalty. Cash equivalents, excluding items classified as marketable securities, include short-term, highly liquid Investments that are both readily convertible to known amounts of cash, and so near their maturity that they present minimal risk of changes in value because of changes in interest rates. Generally, only investments with original maturities of three months or less qualify under that definition. Original maturity means original maturity to the entity holding the investment. For example, both a three-month US Treasury bill and a three-year Treasury note purchased three months from maturity qualify as cash equivalents. However, a Treasury note purchased three years ago does not become a cash equivalent when its remaining maturity is three months. Short-term investments, exclusive of cash equivalents, generally consist of marketable securities intended to be sold within one year (or the normal operating cycle if longer) and may include trading securities, available-for-sale securities, or held-to-maturity securities (if maturing within one year), as applicable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CashCashEquivalentsAndShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allocation of valuation allowances and deferred tax liability, of deferred tax asset attributable to deductible differences and carryforwards, with jurisdictional netting. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-6 + Details Name: us-gaap_DeferredIncomeTaxAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -

Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_Liabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-5Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of beyond one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to noncontrolling interest. Excludes temporary equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_MinorityInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liabilities classified as other, due after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -

Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_PreferredStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAs of the reporting date, the aggregate carrying amount of all noncontrolling interests which are redeemable by the (parent) entity (1) at a fixed or determinable price on a fixed or determinable date, (2) at the option of the holder of the noncontrolling interest, or (3) upon occurrence of an event that is not solely within the control of the (parent) entity. This item includes noncontrolling interest holder's ownership (or holders' ownership) regardless of the type of equity interest (common, preferred, other) including all potential organizational (legal) forms of the investee entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Subparagraph (12)(c) -Section S99 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Subparagraph (16)(c) -Paragraph 3A -Section S99 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (15) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (14) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3A + Details Name: us-gaap_RedeemableNoncontrollingInterestEquityCarryingAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of investments including trading securities, available-for-sale securities, held-to-maturity securities, and short-term investments classified as other and current. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquityNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent and noncontrolling interest. Excludes temporary equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 848 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (a)(3)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483550/848-10-65-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479832/842-10-65-8Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-24Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 23 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-23Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-5Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 5 -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479654/326-10-65-5Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (i)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 105 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479343/105-10-65-6Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 105 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479343/105-10-65-6Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (f)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (f)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482615/740-10-65-8Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (d)(3) 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https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 34: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-3Reference 37:

http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 38: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 39: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 40: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 41: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 42: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 43: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 44: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 45: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 46: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-15Reference 47: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-16Reference 48: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4I -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4IReference 49: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476166/350-60-65-1 + Details Name: us-gaap_StockholdersEquityIncludingPortionAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount allocated to previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-4Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockCommonValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 14 R3.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED BALANCE SHEETS (PARENTHETICAL) - $ / shares Jul. 31, 2024 Oct. 31, 2023 Statement of Financial Position [Abstract] Â Â Preferred stock, par value (in USD per share) $ 0.01 $ 0.01 Preferred stock, shares authorized (in shares) 2,000,000 2,000,000 Preferred stock, shares outstanding (in shares) 0 0 Common stock, par value (in USD per share) $ 0.01 $ 0.01 Common stock, shares authorized (in shares) 400,000,000 400,000,000 Common stock, shares outstanding (in shares) 153,613,000 152,053,000 Treasury stock, shares (in shares) 3,648,000 5,207,000 X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockCommonShares Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant XML 15 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED STATEMENTS OF INCOME - USD ($) shares in Thousands, $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Revenue: Â Â Â Â Total revenue $ 1,525,749 $ 1,354,390 $ 4,491,450 $ 3,850,631 Cost of revenue: Â Â Â Â Amortization of acquired intangible assets 14,510 10,994 41,165 32,683 Total cost of revenue 290,676 260,432 870,266 744,662 Gross margin 1,235,073 1,093,958 3,621,184 3,105,969 Operating expenses: Â Â Â Â Research and development 508,872 484,470 1,527,542 1,384,120 Sales and marketing 211,491 185,769 640,117 537,981 General and administrative 150,437 99,750 396,464 274,406 Amortization of acquired intangible assets 4,062 2,014 12,152 5,949 Restructuring charges 0 21,879 0 54,439 Total operating expenses 874,862 793,882 2,576,275 2,256,895 Operating income 360,211 300,076 1,044,909 849,074 Interest and other income (expense), net 31,784 25,484 146,070 52,631 Income before income taxes 391,995 325,560 1,190,979 901,705 Provision (benefit) for income taxes (30,712) (6,951) 37,634 29,779 Net income from continuing operations 422,707 332,511 1,153,345 871,926 Income (loss) from discontinued operations, net of income taxes (17,813) 544 (13,155) (296) Net income 404,894 333,055 1,140,190 871,630 Less: Net income (loss) attributed to non-controlling interest and redeemable non-controlling interest (3,161) (3,197) (9,084) (9,068) Net income attributed to Synopsys 408,055 336,252 1,149,274 880,698 Net income (loss) attributed to Synopsys: Â Â Â Â Continuing operations 425,868 335,708 1,162,429 880,994 Discontinued operations (17,813) 544 (13,155) (296) Net income attributed to Synopsys $ 408,055 $ 336,252 $ 1,149,274 $ 880,698 Net income (loss) per share attributed to Synopsys - basic: Â Â Â Â Continuing operations (in USD per share) $ 2.78 $ 2.21 $ 7.60 $ 5.79 Discontinued operations (in USD per share) (0.12) 0 (0.08) 0 Basic net income per share (in USD per share) 2.66 2.21 7.52 5.79 Net income (loss) per share attributed to Synopsys - diluted: Â Â Â Â Continuing operations (in USD per share) 2.73 2.17 7.46 5.68 Discontinued operations (in USD per share) (0.12) 0 (0.09) 0 Diluted net income per share (in USD per share) $ 2.61 $ 2.17 $ 7.37 $ 5.68 Shares used in computing per share amounts: Â Â Â Â Basic (shares) 153,417 152,023 152,885 152,204 Diluted (shares) 156,131 154,947 155,863 155,119 Product Â Â Â Â Revenue: Â Â Â Â Total revenue $ 1,245,675 $ 1,120,049 $ 3,671,207 $ 3,194,162 Cost of revenue: Â Â Â Â Cost of revenue 179,536 174,460 553,753 500,146 Time-based products Â Â Â Â Revenue: Â Â Â Â Total revenue 803,147 827,396 2,389,924 2,235,531 Upfront products Â Â Â Â Revenue: Â Â Â Â Total revenue 442,528 292,653 1,281,283 958,631 Maintenance and service Â Â Â Â Revenue: Â Â Â Â Total revenue 280,074 234,341 820,243 656,469 Cost of revenue: Â Â Â Â Cost of revenue $ 96,630 $ 74,978 $ 275,348 $ 211,833 X - DefinitionShares Used in Computing per Share Amounts [Abstract] + ReferencesNo definition available. + Details Name: snps_SharesUsedInComputingPerShareAmountsAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of expense for allocation of cost of tangible and intangible assets over their useful lives, and reduction in quantity of natural resource due to consumption directly used in production of good and rendering of service. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostDepreciationAmortizationAndDepletion Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1 + Details Name: us-gaap_CostOfGoodsAndServicesSold Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate cost of goods produced and sold and services rendered during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B + Details Name: us-gaap_CostOfRevenue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-

gaap_CostOfRevenueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: 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https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareBasicAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: 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19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareDilutedAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate total of expenses of managing and administering the affairs of an entity, including affiliates of the reporting entity, which are not directly or indirectly associated with the manufacture, sale or creation of a product or product line. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1 + Details Name: us-gaap_GeneralAndAdministrativeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards 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https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A 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period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: 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210.9-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards 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Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477349/740-270-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out

period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPer basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionPer diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 5.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479836/810-10-S99-5 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerDilutedShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: 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Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of Net Income (Loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B + Details Name: us-gaap_NetIncomeLossAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_NonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionGenerally

recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense. + ReferencesNo definition available. + Details Name: us-gaap_OperatingExpenses Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OperatingExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense charged against earnings to allocate the cost of tangible and intangible assets over their remaining economic lives, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_OtherDepreciationAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenuesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate total amount of expenses directly related to the marketing or selling of products or services. + ReferencesNo definition available. + Details Name: us-gaap_SellingAndMarketingExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -

Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_LicenseAndMaintenanceMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_LicenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_TechnologyServiceMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 16 R5.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Statement of Comprehensive Income [Abstract] Â Â Â Â Net income $ 404,894 $ 333,055 $ 1,140,190 $ 871,630 Other comprehensive income (loss): Â Â Â Â Change in foreign currency translation adjustment 4,913 (12,232) 4,526 19,297 Change in unrealized gains (losses) on available-for-sale securities, net of tax of $0 for periods presented 885 (212) 1,764 1,326 Cash flow hedges: Â Â Â Â Deferred gains (losses), net of tax $(1,989) and $(1,970) for the three and nine months ended July 31, 2024, respectively, and of $(2,147) and $(14,995) for each of the same periods in fiscal 2023, respectively. 4,181 5,907 7,656 43,489 Reclassification adjustment on deferred (gains) losses included in net income, net of tax of $348 and $(2,083) for the three and nine months ended July 31, 2024, respectively, and of $(2,111) and $(8,707) for each of the same periods in fiscal 2023, respectively. (2,078) 5,250 2,356 22,881 Other comprehensive income (loss), net of tax effects 7,901 (1,287) 16,302 86,993 Comprehensive income 412,795 331,768 1,156,492 958,623 Less: Net income (loss) attributed to non-controlling interest and redeemable non-controlling interest (3,161) (3,197) (9,084) (9,068) Comprehensive income attributed to Synopsys $ 415,956 $ 334,965 $ 1,165,576 $ 967,691 X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5 + Details Name: us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4K + Details Name: us-gaap_ComprehensiveIncomeNetOfTaxIncludingPortionAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of Net Income (Loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B + Details Name: us-gaap_NetIncomeLossAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherComprehensiveIncomeDerivativesQualifyingAsHedgesNetOfTaxPeriodIncreaseDecreaseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after tax and adjustment, of unrealized gain (loss) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale) and unrealized gain (loss) on investment in debt security measured at amortized cost (held-to-maturity) from transfer to available-for-sale. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11 + Details Name: us-gaap_OtherComprehensiveIncomeLossAvailableForSaleSecuritiesAdjustmentNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after tax and before reclassification, of gain (loss) from derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossBeforeReclassificationAfterTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after tax, of reclassification of gain (loss) from accumulated other comprehensive income (AOCI) for derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-15 + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossReclassificationAfterTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (a) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details Name: us-gaap_OtherComprehensiveIncomeLossForeignCurrencyTransactionAndTranslationAdjustmentNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPeriodIncreaseDecreaseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section

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210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards 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http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 17 R6.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (PARENTHETICAL) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Statement of Comprehensive Income [Abstract] Â Â Â Â Change in unrealized gains (losses) on available-for-sale securities, tax $ 0 $ 0 $ 0 $ 0 Deferred gains (losses), tax (1,989) (2,147) (1,970) (14,995) Reclassification adjustment on deferred (gains) losses included in net income, tax $ 348 $ (2,111) $ (2,083) $ (8,707) X - DefinitionAmount, after adjustment, of tax expense (benefit) for unrealized gain (loss) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale) and tax expense (benefit) for unrealized gain (loss) on investment in debt security measured at amortized cost (held-to-maturity) from transfer to available-for-sale. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-12 + Details Name: us-gaap_OtherComprehensiveIncomeLossAvailableForSaleSecuritiesTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, before reclassification, of tax expense (benefit) for gain (loss) from derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-12 + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossBeforeReclassificationTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of tax expense (benefit) for reclassification of gain (loss) from accumulated other comprehensive income (AOCI) for derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-12 + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossReclassificationTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 18 R7.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERSâ€™ EQUITY - USD ($) shares in Thousands, $ in Thousands Total TotalÂ Synopsys Stockholdersâ€™ Equity Common Stock Capital in Excess of Par Value Retained Earnings Treasury Stock Accumulated Other Comprehensive Income (Loss) Non-controlling Interest Balance (in shares) at Oct. 31, 2022 Â Â 152,375 Â Â Â Â Â Beginning balance at Oct. 31, 2022 $ 5,520,526 $ 5,515,725 $ 1,524 $ 1,487,126 $ 5,534,307 $ (1,272,955) $ (234,277) $ 4,801 Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Â Â Net income 879,481 880,698 Â Â 880,698 Â Â (1,217) Other comprehensive income (loss), net of tax effects $ 86,993 86,993 Â Â Â Â 86,993 Â Purchases of treasury stock (in shares) (2,382) Â (2,382) Â Â Â Â Â Purchases of treasury stock $ (860,724) (860,724) $ (24) 24 Â (860,724) Â Â Equity forward contract, net $ (45,000) (45,000) Â (45,000) Â Â Â Â Common stock issued, net of shares withheld for employee taxes (in shares) 2,132 Â 2,132 Â Â Â Â Common stock issued, net of shares withheld for employee taxes $ (32,241) (32,241) $ 21 (603,944) (19,108) 590,790 Â Â Stock-based compensation 421,949 418,047 Â 418,047 Â Â Â 3,902 Adjustments to redeemable non-controlling interest (6,072) (6,072) Â Â (6,072) Â Â Â Recognition of non-controlling interest upon issuance of subsidiary stock (908) 1,129 Â 1,129 Â Â Â (2,037) Balance (in shares) at Jul. 31, 2023 Â Â 152,125 Â Â Â Â Â Ending balance at Jul. 31, 2023 $ 5,964,004 $ 5,958,555 $ 1,521 $ 1,257,382 6,389,825 (1,542,889) (147,284) $ 5,449 Balance (in shares) at Apr. 30, 2023 Â Â 152,251 Â Â Â Â Â Beginning balance at Apr. 30, 2023 $ 5,836,945 $ 5,831,859 $ 1,523 $ 1,330,072 6,075,009 (1,428,748) (145,997) $ 5,086 Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Â Â Net income 335,695 336,252 Â Â 336,252 Â Â (557) Other comprehensive income (loss), net of tax effects $ (1,287) (1,287) Â Â Â Â (1,287) Â Purchases of treasury stock (in shares) (751) Â (751) Â Â Â Â Â Purchases of treasury stock $ (300,000) (300,000) $ (8) 8 Â (300,000) Â Â Common stock issued, net of shares withheld for employee taxes (in shares) 625 Â 625 Â Â Â Â Â Common stock issued, net of shares withheld for employee taxes $ (48,597) (48,597) $ 6 (215,666) (18,796) 185,859 Â Â Stock-based compensation 144,464 142,968 Â 142,968 Â Â Â 1,496 Adjustments to redeemable non-controlling interest (2,640) (2,640) Â Â (2,640) Â Â Â Recognition of non-controlling interest upon issuance of subsidiary stock (576) Â Â Â Â Â Â (576) Balance (in shares) at Jul. 31, 2023 Â Â 152,125 Â Â Â Â Â Ending balance at Jul. 31, 2023 $ 5,964,004 $ 5,958,555 $ 1,521 $ 1,257,382 6,389,825 (1,542,889) (147,284) $ 5,449 Balance (in shares) at Oct. 31, 2023 152,053 Â 152,053 Â Â Â Â Â Beginning balance at Oct. 31, 2023 $ 6,153,258 6,147,308 $ 1,521 $ 1,276,152 6,741,699 (1,675,650) (196,414) $ 5,950 Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Â Â Net income 1,147,120 1,149,274 Â Â 1,149,274 Â Â (2,154) Other comprehensive income (loss), net of tax effects $ 16,302 16,302 Â Â Â Â 16,302 Â Purchases of treasury stock (in shares) (74) Â (74) Â Â Â Â Â Purchases of treasury stock $ (45,000) (45,000) $ (1) 1 Â (45,000) Â Â Equity forward contract, net $ 45,000 45,000 Â 45,000 Â Â Â Â Common stock issued, net of shares withheld for employee taxes (in shares) 1,634 Â 1,634 Â Â Â Â Â Common stock issued, net of shares withheld for employee taxes $ (134,458) (134,458) $ 16 (666,689) Â 532,215 Â Â Stock-based compensation 540,026 536,401 Â 536,401 Â Â Â 3,625 Adjustments to redeemable non-controlling interest (6,929) (6,929) Â Â (6,929) Â Â Â Recognition of non-controlling interest upon issuance of subsidiary stock $ (947) 1,498 Â 1,498 Â Â Â (2,445) Balance (in shares) at Jul. 31, 2024 153,613 Â 153,613 Â Â Â Â Â Ending balance at Jul. 31, 2024 $ 7,714,372 7,709,396 $ 1,536 $ 1,192,363 7,884,044 (1,188,435) (180,112) 4,976 Balance (in shares) at Apr. 30, 2024 Â Â 153,204 Â Â Â Â Â Beginning balance at Apr. 30, 2024 7,157,798 7,153,160 $ 1,532 $ 1,182,829 7,478,366 (1,321,554) (188,013) 4,638 Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Â Â Net income 407,272 408,055 Â Â 408,055 Â Â (783) Other comprehensive income (loss), net of tax effects $ 7,901 7,901 Â Â Â Â 7,901 Â Purchases of treasury stock (in shares) 0 Â Â Â Â Â Â Purchases of treasury stock $ 0 Â Â Â Â Â Â Common stock issued, net of shares withheld for employee taxes (in shares) 409 Â 409 Â Â Â Â Â Common stock issued, net of shares withheld for employee taxes $ (37,761) (37,761) $ 4 (170,884) Â 133,119 Â Â Stock-based compensation 181,539 180,418 Â 180,418 Â Â Â 1,121 Adjustments to redeemable non-controlling interest $ (2,377) (2,377) Â Â (2,377) Â Â Â Balance (in shares) at Jul. 31, 2024 153,613 Â 153,613 Â Â Â Â Â Ending balance at Jul. 31, 2024 $ 7,714,372 $ 7,709,396 $ 1,536 $ 1,192,363 $ 7,884,044 $ (1,188,435) $ (180,112) $ 4,976 X - DefinitionAdjustments to additional paid in capital, equity forward contract. + ReferencesNo definition available. + Details Name: snps_AdjustmentsToAdditionalPaidInCapitalEquityForwardContract Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNet Income (Loss), Including Portion Attributable to Noncontrolling Interest, Separately Stated + ReferencesNo definition available. + Details Name: snps_NetIncomeLossIncludingPortionAttributableToNoncontrollingInterestSeparatelyStated Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInStockholdersEquityRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionChange in noncontrolling interest during the period as a result of a change in the redemption value of redeemable noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Subparagraph (16)(c) -Paragraph 3A -Section S99 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (15) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (14) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section S99 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_MinorityInterestChangeInRedemptionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDecrease in noncontrolling interest (for example, but not limited to, redeeming or purchasing the interests of noncontrolling shareholders, issuance of shares (interests) by the non-wholly owned subsidiary to the parent entity for other than cash, and a buyback of shares (interest) by the non-wholly owned subsidiary from the noncontrolling interests). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-23Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-24 + Details Name: us-gaap_MinorityInterestDecreaseFromRedemptions Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting

Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of treasury shares or units reissued. Excludes reissuance of shares or units in treasury for award under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesTreasuryStockReissued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionValue of treasury shares or units reissued. Excludes reissuance of shares or units in treasury for award under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueTreasuryStockReissued Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent and noncontrolling interest. Excludes temporary equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 848 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (a)(3)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483550/848-10-65-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479832/842-10-65-8Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-24Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 23 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-23Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483421/250-10-45-5Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 5 -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479654/326-10-65-5Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (h)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (i)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480528/815-20-65-6Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 105 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479343/105-10-65-6Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 105 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 6 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479343/105-10-65-6Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (f)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (f)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482615/740-10-65-8Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 8 -Subparagraph (d)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482615/740-10-65-8Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479654/326-10-65-4Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 34: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-3Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-3Reference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 38: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 39: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 40: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 41: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 42: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 43: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 44: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 45: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 46: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-15Reference 47: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-16Reference 48: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 55 -Paragraph 4I -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4IReference 49: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476166/350-60-65-1 + Details Name: us-gaap_StockholdersEquityIncludingPortionAttributableToNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionNumber of shares that have been repurchased during the period and are being held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_TreasuryStockSharesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionEquity impact of the cost of common and preferred stock that were repurchased during the period. Recorded using the cost method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockValueAcquiredCostMethod Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 19 R8.htm IDEA: XBRL DOCUMENT v3.24.2.u1 CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS - USD ($) $ in Thousands 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Cash flows from operating activities: Â Â Net income $ 1,140,190 $ 871,630 Adjustments to reconcile net income to net cash provided by operating activities: Â Â Amortization and depreciation 180,149 180,033 Reduction of operating lease right-of-use assets 72,196 72,647 Amortization of capitalized costs to obtain revenue contracts 57,071 61,677 Stock-based compensation 540,026 421,949 Allowance for credit losses 14,696 11,937 Gain on sale of strategic investments (55,077) 0 Amortization of bridge financing costs 18,435 0 Deferred income taxes (276,840) (166,061) Other non-cash (3,730) 8,649 Net changes in operating assets and liabilities, net of acquired assets and assumed liabilities: Â Â Accounts receivable 59,159 112,511 Inventories (71,303) (77,919) Prepaid and other current assets (350,652) 8,373 Other long-term assets (137,159) (116,487) Accounts payable and accrued liabilities 17,532 48,574 Operating lease liabilities (72,254) (52,914) Income taxes (241,952) 123,924 Deferred revenue (46,276) (131,310) Net cash provided by operating activities 844,211 1,377,213 Cash flows from investing activities: Â Â Proceeds from maturities and sales of short-term investments 98,465 104,139 Purchases of short-term investments (97,181) (102,457) Proceeds from sales of strategic investments 55,696 7,248 Purchases of strategic investments (1,240) (435) Purchases of property and equipment (118,772) (136,520) Acquisitions, net of cash acquired (156,947) (51,324) Capitalization of software development costs 0 (2,204) Net cash used in investing activities (219,979) (181,553) Cash flows from financing activities: Â Â Repayment of debt (2,607) (2,603) Payment of bridge financing and term loan costs (72,265) 0 Issuances of common stock 143,148 164,841 Payments for taxes related to net share settlement of equity awards (278,571) (198,969) Purchase of equity forward contract 0 (45,000) Purchases of treasury stock 0 (860,724) Other (1,096) (122) Net cash used in financing activities (211,391) (942,577) Effect of exchange rate changes on cash, cash equivalents and restricted cash 5,458 14,997 Net change in cash, cash equivalents and restricted cash 418,299

268,080 Cash, cash equivalents and restricted cash, beginning of year, including cash from discontinued operations 1,441,187 1,419,864 Cash, cash equivalents and restricted cash, end of period, including cash from discontinued operations 1,859,486 1,687,944 Less: Cash, cash equivalents and restricted cash from discontinued operations 17,441 4,835 Cash, cash equivalents and restricted cash from continuing operations $ 1,842,045 $ 1,683,109 X - DefinitionAmortization Of Capitalized Costs To Obtain Revenue Contracts + ReferencesNo definition available. + Details Name: snps_AmortizationOfCapitalizedCostsToObtainRevenueContracts Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionIncrease (Decrease) in Operating Lease Liabilities + ReferencesNo definition available. + Details Name: snps_IncreaseDecreaseinOperatingLeaseLiabilities Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionReduction of Operating Lease Right-of-Use Assets + ReferencesNo definition available. + Details Name: snps_ReductionofOperatingLeaseRightofUseAssets Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of amortization expense attributable to debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef - Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfFinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef - Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; attributable to disposal group, including, but not limited to, discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsDisposalGroupIncludingDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of deferred income tax expense (benefit) and income tax credits. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_DeferredIncomeTaxesAndTaxCredits Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22 + Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 230 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe net realized gain (loss) on investments sold during the period, not including gains (losses) on securities separately or otherwise categorized as trading, available-for-sale, or held-to-maturity, which, for cash flow reporting, is a component of proceeds from investing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the amounts payable to vendors for goods and services received and the amount of obligations and expenses incurred but not paid. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification - Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsPayableAndAccruedLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) in obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-11Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInContractWithCustomerLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the amounts payable to taxing authorities for taxes that are based on the reporting entity's earnings, net of amounts receivable from taxing authorities for refunds of overpayments or recoveries of income taxes, and in deferred and other tax liabilities and assets. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef - Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInIncomeTaxes Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInOtherNoncurrentAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) in prepaid expenses, and assets classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (expense) included in net income that results in no cash inflow (outflow), classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_OtherNoncashIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow to reacquire common stock during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details

Name: us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to reacquire equity classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsForRepurchaseOfOtherEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for loan and debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfFinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to satisfy grantee's tax withholding obligation for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsRelatedToTaxWithholdingForShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to acquire investments classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireOtherInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow for the purchase of or improvements to tangible or intangible assets, used to produce goods or deliver services, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireOtherProductiveAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for securities or other assets acquired, which qualify for treatment as an investing activity and are to be liquidated, if necessary, within the current operating cycle. Includes cash flows from securities classified as trading securities that were acquired for reasons other than sale in the short-term. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities classified as other. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 45 -Paragraph 15 -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_ProceedsFromPaymentsForOtherFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow associated with the aggregate amount received by the entity through sale or maturity of marketable securities (held-to-maturity or available-for-sale) during the period. + ReferencesNo definition available. + Details Name: us-gaap_ProceedsFromSaleAndMaturityOfMarketableSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow associated with the sale and maturity (principal being due) of other investments, prepayment and call (request of early payment) of other investments not otherwise defined in the taxonomy. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-12 + Details Name: us-gaap_ProceedsFromSaleAndMaturityOfOtherInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from the issuance of an equity stock that has been previously reacquired by the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromSaleOfTreasuryStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards 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https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 31: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4J -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4JReference 32: http://www.xbrl.org/2003/role/exampleRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 4K -Publisher FASB -URI https://asc.fasb.org/1943274/2147481175/810-10-55-4KReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 34: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-2Reference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 37: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A + Details Name: us-gaap_ProfitLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_RepaymentsOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 20 R9.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Description of Business 9 Months Ended Jul. 31, 2024 Accounting Policies [Abstract] Â Description of Business Description of BusinessSynopsys, Inc. (Synopsys, we, our or us) delivers trusted and comprehensive silicon to systems design solutions, from electronic design automation (EDA), including system verification and validation solutions, to silicon intellectual property (IP). We partner closely with semiconductor and systems customers across a wide range of industries to maximize their research and development capability and productivity. We are catalyzing the era of pervasive intelligence to power innovation today that ignites the ingenuity of tomorrow.We are a global leader in supplying the EDA software that engineers use to design and test integrated circuits (ICs), also known as chips or silicon, and we are pioneering artificial intelligence (AI) driven chip design across the full-stack EDA suite to improve efficiency and accelerate the design, verification testing and manufacturing of advanced digital and analog chips. We provide software and hardware used to validate the electronic systems that incorporate chips and the software that runs on them, including cloud-based digital design flow to boost chip-design development productivity. We also provide technical services and support to help our customers develop advanced chips and electronic systems. These products and services are part of our Design Automation segment.We also offer a broad and comprehensive portfolio of semiconductor IP solutions, which are pre-designed circuits that engineers use as components of larger chip designs to reduce integration risk and speed time to market. Our high quality, silicon-proven semiconductor IP includes logic libraries, embedded memories, analog IP, wired and wireless interface IP, security IP, embedded processors and subsystems. To accelerate IP integration and silicon bring-up, our IP accelerated initiative provides architecture design expertise, hardening, and signal and power integrity analysis. These products and services are part of our Design IP segment. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the nature of an entity's business, major products or services, principal markets including location, and the relative importance of its operations in each business and the basis for the determination, including but not limited to, assets, revenues, or earnings. For an entity that has not commenced principal operations, disclosures about the risks and uncertainties related to the activities in which the entity is currently engaged and an understanding of what those activities are being directed toward. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 275 -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1 + Details Name: us-gaap_NatureOfOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na

Period Type: duration XML 21 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Summary of Significant Accounting Policies and Basis of Presentation 9 Months Ended Jul. 31, 2024 Accounting Policies [Abstract] Â Summary of Significant Accounting Policies and Basis of Presentation Summary of Significant Accounting Policies and Basis of PresentationWe have prepared the accompanying condensed consolidated financial statements pursuant to the rulesÂ and regulations of the Securities and Exchange Commission (SEC). Pursuant to these rulesÂ and regulations, we have condensed or omitted certain information and footnote disclosures we normally include in our annual consolidated financial statements prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). The condensed consolidated financial statements are unaudited but, in managementâ€™s opinion, we have made all adjustments (consisting only of normal, recurring adjustments, except as otherwise indicated) necessary for a fair presentation of our quarterly results. Our interim period operating results do not necessarily indicate the results that may be expected for any other interim period or for the full fiscal year. These financial statements and accompanying notes should be read in conjunction with the consolidated financial statements and notes thereto in our Annual Report on FormÂ 10-K for the fiscal year ended OctoberÂ 31, 2023 as filed with the SEC on DecemberÂ 12, 2023 (our Annual Report). Use of Estimates. To prepare financial statements in conformity with U.S. GAAP, management must make estimates and assumptions that affect the amounts reported in the condensed consolidated financial statements and accompanying notes. Actual results could differ from these estimates and could have a material impact on our operating results and financial position.Principles of Consolidation. The condensed consolidated financial statements include our accounts and the accounts of our wholly and majority-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation.Fiscal Year and Fiscal Quarter End. Our fiscal year ends on the Saturday nearest to OctoberÂ 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023. Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on August 3, 2024 and July 29, 2023, respectively. For presentation purposes, the condensed consolidated financial statements and accompanying notes refer to the closest calendar month end.Software Integrity Divestiture. During the second quarter of fiscal 2024, we determined that our Software Integrity business met the criteria to be classified as a discontinued operation, and, as a result, Software Integrityâ€™s historical financial results are reflected in our consolidated financial statements as discontinued operations, and assets and liabilities were retrospectively reclassified as assets and liabilities held for sale. We did not allocate any general corporate overhead to discontinued operations. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements.Significant Accounting Policies. There have been no material changes to our significant accounting policies included in our Annual Report.Recently Issued Accounting PronouncementsIn June 2022, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2022-03, Fair Value Measurement (Topic 820): Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions, which applies to all equity securities measured at fair value that are subject to contractual sale restrictions. This change prohibits entities from taking into account contractual restrictions on the sale of equity securities when estimating fair value and introduces required disclosures for such transactions. The ASU will become effective for us beginning on November 1, 2024 and will be applied prospectively. Early adoption is permitted. Any future impact from the adoption of this ASU will depend on the facts and circumstances of future transactions.In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The ASU expands public entitiesâ€™ segment disclosures by requiring disclosure of significant segment expenses that are regularly provided to the Chief Operating Decision Maker (CODM) and included within each reported measure of segment profit or loss, an amount and description of its composition for other segment items, and interim disclosures of a reportable segmentâ€™s profit or loss and assets. The ASU is effective for our annual report beginning in the fiscal year 2025, and interim period reports beginning in the first quarter of the fiscal year 2026 on a retrospective basis. Early adoption is permitted. We are currently evaluating the impact of adopting this ASU on our consolidated financial statements and disclosures.In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which enhances the transparency and decision usefulness of income tax disclosures primarily through changes to the rate reconciliation and income taxes paid information. The ASU will become effective for us beginning on November 1, 2025 and will be applied on a prospective basis, with a retrospective option. Early adoption is permitted. We are currently evaluating the impact of this ASU on our consolidated financial statements and related disclosures. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for all significant accounting policies of the reporting entity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContent + Details Name: us-gaap_SignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R11.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations 9 Months Ended Jul. 31, 2024 Discontinued Operations and Disposal Groups [Abstract] Â Discontinued Operations Discontinued OperationsOn May 5, 2024, we entered into an Equity Purchase Agreement (the Purchase Agreement) by and between Synopsys and Sapphire Software Buyer, Inc. (Buyer), an entity controlled by funds affiliated with Clearlake Capital Group, L.P. and Francisco Partners (together, the Sponsors), pursuant to which we will sell our Software Integrity business. Pursuant to the Purchase Agreement, and subject to the satisfaction or waiver of customary closing conditions specified therein, we will sell our Software Integrity business to the Buyer (the Software Integrity Divestiture) for a purchase price of up to $2.1Â billion in cash, comprised of: (i) $1.5Â billion, payable at closing; (ii) $125Â million, payable in equal installments over five fiscal quarters beginning on the first business day after the 75th day of our first full fiscal quarter following the closing, subject to acceleration at our option prior to the closing of our pending acquisition of ANSYS, Inc. (Ansys); and (iii) up to $475Â million, payable upon the Sponsors achieving a specified rate of return in the event of one or more potential liquidity transactions. The Software Integrity Divestiture, which was unanimously approved by our Board of Directors, is currently expected to close in the second half of 2024, subject to customary closing conditions including the receipt of required regulatory approvals.Management believes that the Software Integrity Divestiture has met the criteria to be disclosed as discontinued operations as it represents a significant strategic shift that has a major effect on our operations and financial results. The results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. Further, we reclassified the assets and liabilities of the Software Integrity business as assets and liabilities held for sale in the condensed consolidated statements of balance sheets for all periods presented. The condensed consolidated statements of cash flows are presented on a consolidated basis for both continuing operations and discontinued operations. We did not allocate any general corporate overhead to the Software Integrity business. Unless otherwise noted, reference within these Notes to Condensed Consolidated Financial Statements relates to continuing operations.The financial results of the Software Integrity business are presented as income (loss) from discontinued operations, net of income taxes on our condensed consolidated statements of income. The following table presents the major components of financial results of our Software Integrity business for the periods presented:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,20242023202420232023(in thousands)Revenue$127,917Â $132,898Â $392,579Â $392,860Â Cost of revenue40,279Â 47,050Â 136,010Â 145,188Â Operating expenses91,854Â 90,450Â 262,745Â 258,008Â Interest and other income (expense), net605Â 324Â 1,601Â 722Â Income (loss) from discontinued operations before income taxes(3,611)(4,278)(4,575)(9,614)Income tax provisions (benefits)14,202Â (4,822)8,580Â (9,318)Income (loss) from discontinued operations, net of income taxes$(17,813)$544Â $(13,155)$(296)As of JulyÂ 31, 2024, the assets and liabilities of our Software Integrity business are classified as current in our condensed consolidated balance sheets, as it is probable that the sale will occur within one year. The following table represents the aggregated carrying amounts of classes of assets and liabilities that are classified as discontinued operations on the condensed consolidated balance sheets for the periods presented:July 31, 2024(in thousands)Assets:Cash and cash equivalents$17,441Â Accounts receivable, net78,930Â Prepaid and other assets48,550Â Property and equipment, net6,373Â Operating lease right-of use assets, net6,646Â Goodwill724,294Â Intangible assets, net119,141Â Deferred income taxes26,327Â Total current assets held for sale$1,027,702Â Liabilities:Accounts payable and accrued liabilities$91,874Â Operating lease liabilities5,626Â Deferred revenue233,794Â Total current liabilities held for sale$331,294Â October 31, 2023(in thousands)Assets:Cash and cash equivalents$4,947Â Accounts receivable, net90,307Â Prepaid and other current assets19,400Â Total current assets held for sale$114,654Â Property and equipment, net$7,424Â Operating lease right-of use assets, net8,906Â Goodwill724,271Â Intangible assets, net134,617Â Deferred income taxes7,388Â Other long-term assets26,153Â Total long-term assets held for sale$908,759Â Liabilities:Accounts payable and accrued liabilities$63,847Â Operating lease liabilities5,858Â Deferred revenue216,539Â Total current liabilities held for sale$286,244Â Long-term operating lease liabilities$4,349Â Long-term deferred revenue24,301Â Other long-term liabilities4,607Â Total long-term liabilities held for sale$33,257Â The following table presents significant non-cash items and capital expenditures of discontinued operations for the periods presented:Nine Months Ended July 31,20242023(in thousands)Amortization and depreciation$16,317Â $37,495Â Reduction of operating lease right-of-use assets$2,162Â $3,481Â Amortization of capitalized costs to obtain revenue contracts $20,808Â $21,398Â Stock-based compensation$47,476Â $37,495Â Deferred income taxes$18,939Â $7,388Â Purchases of property and equipment$972Â $2,351Â X - ReferencesNo definition available. + Details Name: us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205-20/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/360/tableOfContent + Details Name: us-gaap_DisposalGroupsIncludingDiscontinuedOperationsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 23 R12.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pending Acquisition of Ansys 9 Months Ended Jul. 31, 2024 Business Combination, Asset Acquisition, and Joint Venture Formation [Abstract] Â Pending Acquisition of Ansys Pending Acquisition of AnsysOn January 15, 2024, we entered into an Agreement and Plan of Merger (the Merger Agreement) to acquire all of the outstanding shares of Ansys, a provider of broad engineering simulation and analysis software and services, in a cash-and-stock transaction (the Ansys Merger) that values Ansys at approximately $35.0Â billion, based on the closing price of Synopsys common stock on December 21, 2023. Under the terms of the Merger Agreement, at the effective time of the Ansys Merger (the Effective Time), each share of Ansys common stock issued and outstanding immediately prior to the Effective Time (with certain exceptions set forth in the Merger Agreement) will be converted into the right to receive 0.3450 (the Exchange Ratio) of a share of Synopsys common stock and $197.00 in cash, without interest. The Merger Agreement also provides for Synopsysâ€™ assumption of certain outstanding Ansys options and other unvested Ansys equity awards held by continuing Ansys employees. If the stock consideration to be issued by Synopsys in connection with the Ansys Merger exceeds 19.9999% of the shares of Synopsys common stock issued and outstanding immediately prior to the Effective Time, the Exchange Ratio will be reduced to the minimum extent necessary to ensure that the aggregate number of shares of Synopsys common stock to be issued in connection with the Ansys Merger does not exceed such threshold, and the cash consideration will be correspondingly increased to offset such adjustment.The Ansys Merger was approved by the holders of a majority of the outstanding shares of Ansys common stock on May 22, 2024 and is anticipated to close in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including the expiration or termination of the waiting period under the Hart-Scott-Rodino Antitrust Improvement Act of 1976, as amended, the clearance of the Ansys Merger under certain other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. We and Ansys each have termination rights under the Merger Agreement. A fee of $1.5Â billion may be payable by us to Ansys, or a fee of $950.0Â million may be payable by Ansys to us, upon termination of the Merger Agreement under specified circumstances, each as more fully described in the Merger Agreement.In connection with the execution of the Merger Agreement, we entered into a commitment letter on January 15, 2024 (the Bridge Commitment Letter) with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, a senior unsecured bridge facility (the Bridge Commitment). The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. On FebruaryÂ 13, 2024, we entered into a term loan facility credit agreement (the Term Loan Agreement), which provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on the Bridge Commitment and the Term Loan Agreement.Business CombinationsDuring the nine months ended JulyÂ 31, 2024, we completed three acquisitions for aggregate purchase consideration of $159.3Â million, net of cash acquired. The purchase consideration was allocated as follows: $78.9Â million to identifiable intangible assets, $97.5Â million to goodwill, and $17.1Â million to net tangible liabilities. The total purchase consideration is preliminary, and as additional information becomes available, we may further revise it during the remainder of the measurement period, which will not exceed 12 months from the closing of the acquisition. The goodwill recognized from these acquisitions, of which $62.7 million was attributable to the Design Automation reporting unit and $34.8 million was attributable to the Design IP reporting unit, was not deductible for income tax purposes.We have included the financial results of these acquisitions in our condensed consolidated financial statements from the date of each acquisition. These results were not material to our condensed consolidated financial statements.Transaction costs were $53.0 million and $110.2 million during the three and nine months ended JulyÂ 31, 2024, respectively. Transaction costs were $4.8 million and $9.8 million during the three and nine months ended July 31, 2023, respectively. These costs mainly consisted of professional fees and administrative costs for closed and pending acquisitions and were expensed as incurred in our condensed consolidated statements of income. X - ReferencesNo definition available. + Details Name: us-gaap_BusinessCombinationAndAssetAcquisitionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/805/tableOfContent + Details Name: us-gaap_BusinessCombinationDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R13.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Business Combinations 9 Months Ended Jul. 31, 2024 Business Combination, Asset Acquisition, and Joint Venture Formation [Abstract] Â Business Combinations Pending Acquisition of AnsysOn January 15, 2024, we entered into an Agreement and Plan of Merger (the Merger Agreement) to acquire all of the outstanding shares of Ansys, a provider of broad engineering simulation and analysis software and services, in a cash-and-stock transaction (the Ansys Merger) that values Ansys at approximately $35.0Â billion, based on the closing price of Synopsys common stock on December 21, 2023. Under the terms of the Merger Agreement, at the effective time of the Ansys Merger (the Effective Time), each share of Ansys common stock issued and outstanding immediately prior to the Effective Time (with certain exceptions set forth in the Merger Agreement) will be converted into the right to receive 0.3450 (the Exchange Ratio) of a share of Synopsys common stock and $197.00 in cash, without interest. The Merger Agreement also provides for Synopsysâ€™ assumption of certain outstanding Ansys options and other unvested Ansys equity awards held by continuing Ansys employees. If the stock consideration to be issued by Synopsys in connection with the Ansys Merger exceeds 19.9999% of the shares of Synopsys common stock issued and outstanding immediately prior to the Effective Time, the Exchange Ratio will be reduced to the minimum extent necessary to ensure that the aggregate number of shares of Synopsys common stock to be issued in connection with the Ansys Merger does not exceed such threshold, and the cash consideration will be correspondingly increased to offset such adjustment.The Ansys Merger was approved by the holders of a majority of the outstanding shares of Ansys common stock on May 22, 2024 and is anticipated to close in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including the expiration or termination of the waiting period under the Hart-Scott-Rodino Antitrust Improvement Act of 1976, as amended, the clearance of the Ansys Merger under certain

other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. We and Ansys each have termination rights under the Merger Agreement. A fee of $1.5Â billion may be payable by us to Ansys, or a fee of $950.0Â million may be payable by Ansys to us, upon termination of the Merger Agreement under specified circumstances, each as more fully described in the Merger Agreement.In connection with the execution of the Merger Agreement, we entered into a commitment letter on January 15, 2024 (the Bridge Commitment Letter) with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, a senior unsecured bridge facility (the Bridge Commitment). The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. On FebruaryÂ 13, 2024, we entered into a term loan facility credit agreement (the Term Loan Agreement), which provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on the Bridge Commitment and the Term Loan Agreement.Business CombinationsDuring the nine months ended JulyÂ 31, 2024, we completed three acquisitions for aggregate purchase consideration of $159.3Â million, net of cash acquired. The purchase consideration was allocated as follows: $78.9Â million to identifiable intangible assets, $97.5Â million to goodwill, and $17.1Â million to net tangible liabilities. The total purchase consideration is preliminary, and as additional information becomes available, we may further revise it during the remainder of the measurement period, which will not exceed 12 months from the closing of the acquisition. The goodwill recognized from these acquisitions, of which $62.7 million was attributable to the Design Automation reporting unit and $34.8 million was attributable to the Design IP reporting unit, was not deductible for income tax purposes.We have included the financial results of these acquisitions in our condensed consolidated financial statements from the date of each acquisition. These results were not material to our condensed consolidated financial statements.Transaction costs were $53.0 million and $110.2 million during the three and nine months ended JulyÂ 31, 2024, respectively. Transaction costs were $4.8 million and $9.8 million during the three and nine months ended July 31, 2023, respectively. These costs mainly consisted of professional fees and administrative costs for closed and pending acquisitions and were expensed as incurred in our condensed consolidated statements of income. X - ReferencesNo definition available. + Details Name: us-gaap_BusinessCombinationAndAssetAcquisitionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/805/tableOfContent + Details Name: us-gaap_BusinessCombinationDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue 9 Months Ended Jul. 31, 2024 Revenue from Contract with Customer [Abstract] Â Revenue RevenueDisaggregated RevenueThe following table shows the percentage of revenue by product groups:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,2024202320242023EDA66.9Â %71.8Â %66.8Â %71.3Â %Design IP30.4Â %25.9Â %30.9Â %26.7Â %Other2.7Â %2.3Â %2.3Â %2.0Â %Total100.0Â %100.0Â %100.0Â %100.0Â %Contract BalancesThe contract assets indicated below are presented as prepaid and other current assets in the condensed consolidated balance sheets. The contract assets are transferred to receivables when the rights to invoice and receive payment become unconditional. Unbilled receivables are presented as accounts receivable, net, in the condensed consolidated balance sheets.Contract balances are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Contract assets, net$693,874Â $375,904Â Unbilled receivables$33,603Â $60,016Â Deferred revenue$1,675,884Â $1,710,288Â During the three and nine months ended JulyÂ 31, 2024, we recognized revenue of $216.8 million and $1.3 billion, respectively, that was included in the deferred revenue balance as of OctoberÂ 31, 2023, including previously unfulfilled contracts that have expired and are no longer subject to an implied promise to provide future services.Contracted but unsatisfied or partially unsatisfied performance obligations (backlog) were approximately $7.9 billion as of JulyÂ 31, 2024, which includes $1.2 billion in non-cancellable Flexible Spending Account (FSA) commitments from customers where actual product selection and quantities of specific products or services are to be determined by customers at a later date. We have elected to exclude future sales-based royalty payments from the remaining performance obligations. Approximately 40% of the backlog as of JulyÂ 31, 2024, excluding non-cancellable FSA, is expected to be recognized as revenue over the next 12 months, with the remainder recognized thereafter. The majority of the remaining backlog is expected to be recognized in the following three years.During the three and nine months ended JulyÂ 31, 2024, we recognized $21.1 million and $73.9 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. During the three and nine months ended JulyÂ 31, 2023, we recognized $24.2 million and $75.8 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. Costs of Obtaining a Contract with CustomerCapitalized commission costs, net of accumulated amortization, as of JulyÂ 31, 2024 were $70.5 million and are included in other long-term assets in our condensed consolidated balance sheets. Amortization of these assets was $12.6 million and $36.3 million during the three and nine months ended JulyÂ 31, 2024, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income. Amortization of these assets was $14.0 million and $40.3 million during the three and nine months ended JulyÂ 31, 2023, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income. X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-9Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-15Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI https://asc.fasb.org/606/tableOfContent + Details Name: us-gaap_RevenueFromContractWithCustomerTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets 9 Months Ended Jul. 31, 2024 Goodwill and Intangible Assets Disclosure [Abstract] Â Goodwill and Intangible Assets Goodwill and Intangible AssetsGoodwillThe changes in the carrying amount of goodwill during the nine months ended JulyÂ 31, 2024 are as follows:Â (in thousands)Balance at OctoberÂ 31, 2023$3,346,065Â Additions97,521Â Adjustments173Â Effect of foreign currency translation590Â Balance at JulyÂ 31, 2024$3,444,349Â Intangible AssetsIntangible assets as of JulyÂ 31, 2024 consist of the following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (in thousands)Core/developed technology$904,381Â $711,119Â $193,262Â Customer relationships314,154Â 242,955Â 71,199Â Contract rights intangible176,343Â 174,724Â 1,619Â Trademarks and trade names12,925Â 12,913Â 12Â Total$1,407,803Â $1,141,711Â $266,092Â Intangible assets as of OctoberÂ 31, 2023 consist of the following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (inÂ thousands)Core/developed technology$842,448Â $672,480Â $169,968Â Customer relationships296,883Â 231,557Â 65,326Â Contract rights intangible175,747Â 171,487Â 4,260Â Trademarks and trade names12,925Â 12,902Â 23Â Capitalized software development costs50,795Â 50,795Â â€”Â Total$1,378,798Â $1,139,221Â $239,577Â Amortization expense related to intangible assets consists of the following:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 2024202320242023Â (inÂ thousands)Core/developed technology$13,447Â $10,436Â $38,373Â $31,427Â Customer relationships4,058Â 2,011Â 11,467Â 5,945Â Contract rights intangible1,063Â 558Â 3,465Â 1,257Â Trademarks and trade names4Â 3Â 12Â 3Â Capitalized software development costs(1)â€”Â 557Â â€”Â 1,626Â Total$18,572Â $13,565Â $53,317Â $40,258Â (1) Amortization of capitalized software development costs is included in cost of products revenue in the condensed consolidated statements of income.The following table presents the estimated future amortization of acquired intangible assets as of JulyÂ 31, 2024:FiscalÂ year(inÂ thousands)Remainder of fiscal 2024$17,344Â 202562,103Â 202651,778Â 202746,831Â 202832,099Â 2029 and thereafter55,937Â Total$266,092Â X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for goodwill and intangible assets. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-20/tableOfContent + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 27 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheet Components 9 Months Ended Jul. 31, 2024 Balance Sheet Related Disclosures [Abstract] Â Balance Sheet Components Balance Sheet ComponentsAs ofJuly 31, 2024October 31, 2023(in thousands)Other long-term assets:Deferred compensation plan assets$373,306Â $297,180Â Capitalized commission, net70,532Â 67,240Â Other135,935Â 80,400Â Total$579,773Â $444,820Â Accounts payable and accrued liabilities:Payroll and related benefits$530,948Â $531,848Â Accrued income taxes3,172Â 226,762Â Other accrued liabilities144,316Â 146,696Â Accounts payable78,547Â 154,608Â Total$756,983Â $1,059,914Â Other long-term liabilities:Deferred compensation plan liabilities$373,306Â $297,180Â Other91,927Â 84,351Â Total$465,233Â $381,531Â X - ReferencesNo definition available. + Details Name: us-gaap_BalanceSheetRelatedDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for supplemental balance sheet disclosures, including descriptions and amounts for assets, liabilities, and equity. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/210/tableOfContent + Details Name: us-gaap_SupplementalBalanceSheetDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities 9 Months Ended Jul. 31, 2024 Financial Assets And Liabilities [Abstract] Â Financial Assets and Liabilities Financial Assets and LiabilitiesCash Equivalents and Short-term InvestmentsAs of July 31, 2024, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$44,537Â $â€”Â $â€”Â $â€”Â $44,537Â U.S. Treasury, agency & T-bills7,445Â 1Â â€”Â â€”Â 7,446Â Total:$51,982Â $1Â $â€”Â $â€”Â $51,983Â Short-term investments:U.S. Treasury, agency & T-bills$18,250Â $61Â $â€”Â (9)18,302Â Corporate debt securities104,267Â 528Â (13)(24)104,758Â Asset-backed securities31,237Â 164Â (2)(28)31,371Â Total:$153,754Â $753Â (15)(61)$154,431Â (1)See Note 10. Fair Value Measurements for further discussion on fair values.The contractual maturities of our available-for-sale debt securities as of JulyÂ 31, 2024 are as follows:Amortized CostFair Value(in thousands)less than 1 year$61,373Â $61,426Â 1-5 years87,412Â 88,022Â 5-10 years3,066Â 3,084Â >10 years1,903Â 1,899Â Total$153,754Â $154,431Â As of OctoberÂ 31, 2023, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$10,129Â $â€”Â $â€”Â $â€”Â $10,129Â U.S. Treasury, agency & T-bills2,994Â â€”Â â€”Â â€”Â 2,994Â Total:$13,123Â $â€”Â $â€”Â $â€”Â $13,123Â Short-term investments:U.S. Treasury, agency & T-bills$15,752Â $â€”Â (61)(2)$15,689Â Municipal bonds515Â â€”Â â€”Â (16)499Â Corporate debt securities103,213Â 13Â (455)(396)102,375Â Asset-backed securities33,245Â 21Â (93)(97)33,076Â Total:$152,725Â $34Â (609)(511)$151,639Â (1)See Note 10. Fair Value Measurements for further discussion on fair values.Restricted cash. We include amounts generally described as restricted cash in cash and cash equivalents when reconciling beginning-of-period and end-of-period total amounts shown on the condensed consolidated statements of cash flows. Restricted cash is primarily associated with office leases and employee loan programs.The following table provides a reconciliation of cash, cash equivalents and restricted cash included in the condensed consolidated balance sheets and the condensed consolidated statements of cash flows:As ofJuly 31, 2024October 31, 2023(in thousands)Cash and cash equivalents$1,839,815Â $1,433,966Â Restricted cash included in prepaid and other current assets1,536Â 1,549Â Restricted cash included in other long-term assets694Â 725Â Cash, cash equivalents and restricted cash$1,842,045Â $1,436,240Â Cash, cash equivalents and restricted cash from discontinued operations17,441Â 4,947Â Total cash, cash equivalents and restricted cash, including cash from discontinued operations$1,859,486Â $1,441,187Â Non-marketable equity securities. Our portfolio of non-marketable equity securities consists of strategic investments in privately held companies. In November 2023, we completed the sale of strategic investments in privately-held companies. The gain recognized from the sales was $55.1Â million and included in interest and other income (expense), net, in our condensed consolidated statements of income. There were no material impairments of non-marketable equity securities during the three and nine months ended JulyÂ 31, 2024 and 2023.DerivativesWe recognize derivative instruments as either assets or liabilities in the condensed consolidated balance sheets at fair value and provide qualitative and quantitative disclosures about such derivatives. We operate internationally and are exposed to potentially adverse movements in foreign currency exchange rates. We enter into hedges in the form of foreign currency forward contracts to reduce our exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions including: (1)Â certain assets and liabilities, (2)Â shipments forecasted to occur within approximately one month, (3)Â future billings and revenue on previously shipped orders, and (4)Â certain future intercompany invoices denominated in foreign currencies.The duration of forward contracts, the majority of which are short-term, ranges from approximately 2 months to 29 months at inception. We do not use foreign currency forward contracts for speculative or trading purposes. We enter into foreign exchange forward contracts with high credit quality financial institutions that are rated "A" or above and to date have not experienced nonperformance by counterparties. In addition, we mitigate credit risk in derivative transactions by permitting net settlement of transactions with the same counterparty and anticipate continued performance by all counterparties to such agreements.The assets or liabilities associated with the forward contracts are recorded at fair value in other current assets or accrued liabilities in the condensed consolidated balance sheets. The accounting for gains and losses resulting from changes in fair value depends on the use of the foreign currency forward contract and whether it is designated and qualifies for hedge accounting. The cash flow impact upon settlement of the derivative contracts is included in net cash provided by operating activities in the condensed consolidated statements of cash flows.Cash Flow Hedging ActivitiesCertain foreign exchange forward contracts are designated and qualify as cash flow hedges. These contracts have durations of approximately 29 months or less. Certain forward contracts are rolled over periodically to capture the full length of exposure to our foreign currency risk, which can be up to three years. To receive hedge accounting treatment, all hedging relationships are formally documented at the inception of the hedge, and the hedges must be highly effective in offsetting changes to future cash flows on the hedged transactions. The related gains or losses resulting from changes in fair value of these hedges is initially reported, net of tax, as a component of other comprehensive income (loss) (OCI) in stockholdersâ€™ equity and

reclassified into revenue or operating expenses, as appropriate, at the time the hedged transactions affect earnings. We expect a majority of the hedge balance in OCI to be reclassified to the statements of income within the next 12 months.We did not record any gains or losses related to discontinuation of cash flow hedges during the nine months ended JulyÂ 31, 2024 and 2023.Non-designated Hedging ActivitiesOur foreign exchange forward contracts that are used to hedge non-functional currency denominated balance sheet assets and liabilities are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the underlying assets and liabilities, which are also recorded in interest and other income (expense), net. The duration of the forward contracts for hedging our balance sheet exposure is approximately one month.We also have certain foreign exchange forward contracts for hedging certain international revenues and expenses that are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the foreign currency in operating income. The duration of these forward contracts is usually less than one year. The overall goal of our hedging program is to minimize the impact of currency fluctuations on the net income over the fiscal year.The effects of the non-designated derivative instruments on the condensed consolidated statements of income are summarized as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420234Â (in thousands)Gains (losses) recorded in Interest and other income (expense), net$955Â $(1,205)$(110)$3,532Â The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding:As ofJuly 31, 2024October 31, 2023Â (in thousands)Total gross notional amounts$1,816,755Â $1,666,758Â Net fair value$5,768Â $(2,308)Our exposure to the market gains or losses will vary over time as a function of currency exchange rates. The amounts ultimately realized upon settlement of these financial instruments, together with the gains and losses on the underlying exposures, will depend on actual market conditions during the remaining life of the instruments.The following table represents the condensed consolidated balance sheets location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments:FairÂ valuesÂ ofderivativeÂ instrumentsdesignatedÂ asÂ hedginginstrumentsFairÂ valuesÂ ofderivativeÂ instrumentsnot designated ashedging instrumentsÂ (in thousands)Balance at JulyÂ 31, 2024Other current assets$13,655Â $820Â Accrued liabilities$7,498Â $1,209Â Balance at OctoberÂ 31, 2023Other current assets$12,962Â $491Â Accrued liabilities$14,665Â $1,096Â The following table represents the location of the amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax in the condensed consolidated statements of income:LocationÂ ofÂ gainsÂ (losses) recognized in OCI on derivativesAmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ onderivatives(effective portion)LocationÂ ofgainsÂ (losses)reclassifiedÂ from OCIAmountÂ ofgainsÂ (losses)reclassifiedÂ fromOCI(effectiveÂ portion)Â (in thousands)Three months endedÂ Â July 31,
2024ForeignÂ exchangeÂ contractsRevenue$4,501Â Revenue$2,689Â ForeignÂ exchangeÂ contractsOperatingÂ expenses(320)OperatingÂ expenses(611)Total$4,181Â $2,078Â Three months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$899Â Revenue$(1,352)Foreign
exchangeÂ contractsOperatingÂ expenses5,008Â OperatingÂ expenses(3,898)Total$5,907Â $(5,250)Nine months endedÂ Â July 31,
2024ForeignÂ exchangeÂ contractsRevenue$1,936Â Revenue$(1,593)ForeignÂ exchangeÂ contractsOperatingÂ expenses5,720Â OperatingÂ expenses(763)Total$7,656Â $(2,356)Nine months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$7,315Â Revenue$(10,856)Foreign
exchangeÂ contractsOperatingÂ expenses36,174Â OperatingÂ expenses(12,025)Total$43,489Â $(22,881) X - DefinitionFinancial Assets and Liabilities [Abstract] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionA schedule of financial assets and liabilities which may include cash, cash equivalents, investments, and derivative assets and liabilities. + ReferencesNo definition available. + Details Name: snps_ScheduleOfFinancialAssetsAndLiabilitiesTextBlock Namespace Prefix: snps_ Data Type: dtr-types1:textBlockItemType Balance Type: na Period Type: duration XML 29 R18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements 9 Months Ended Jul. 31, 2024 Fair Value Disclosures [Abstract] Â Fair Value Measurements Fair Value MeasurementsASC 820-10, Fair Value Measurements and Disclosures, defines fair value, establishes guidelines and enhances disclosure requirements for fair value measurements. The accounting guidance requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The accounting guidance also establishes a fair value hierarchy based on the independence of the source and objective evidence of the inputs used. There are three fair value hierarchies based upon the level of inputs that are significant to fair value measurement:LevelÂ 1â€”Observable inputs that reflect quoted prices (unadjusted) for identical instruments in active markets;LevelÂ 2â€”Observable inputs other than quoted prices for identical instruments in active markets, quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in inactive markets, and model-driven valuations in which all significant inputs and significant value drivers are observable in active markets; andLevelÂ 3â€”Unobservable inputs derived from fair valuation techniques in which one or more significant inputs or significant value drivers are unobservable.On a recurring basis, we measure the fair value of certain assets and liabilities, which include cash equivalents, short-term investments, non-qualified deferred compensation plan assets, and foreign currency derivative contracts.Our cash equivalents and short-term investments are classified within Level 1 or Level 2 because they are valued using quoted market prices in an active market or alternative independent pricing sources and models utilizing market observable inputs.Our non-qualified deferred compensation plan assets consist of money market and mutual funds invested in domestic and international marketable securities that are directly observable in active markets and are therefore classified within Level 1.Our foreign currency derivative contracts are classified within Level 2 because these contracts are not actively traded, and the valuation inputs are based on quoted prices and market observable data of similar instruments.Our borrowings under our credit and term loan facilities are classified within Level 2 because these borrowings are not actively traded and have a variable interest rate structure based upon market rates currently available to us for debt with similar terms and maturities. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on these borrowings.Assets/Liabilities Measured at Fair Value on a Recurring BasisAssets and liabilities measured at fair value on a recurring basis are summarized below as of JulyÂ 31,
2024:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active
MarketsforÂ IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$44,537Â 44,537Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills7,446Â â€”Â 7,446Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills18,302Â â€”Â 18,302Â â€”Â Corporate debt securities104,758Â â€”Â 104,758Â â€”Â Asset-backed
securities31,371Â â€”Â 31,371Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts14,475Â â€”Â 14,475Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets373,306Â 373,306Â â€”Â â€”Â Total
assets$594,195Â $417,843Â $176,352Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$8,707Â $â€”Â $8,707Â $â€”Â Other long-term liabilities:DeferredÂ compensationÂ plan liabilities373,306Â 373,306Â â€”Â â€”Â Total liabilities$382,013Â $373,306Â $8,707Â $â€”Â Assets and liabilities measured at fair value on a recurring basis are summarized below as of OctoberÂ 31, 2023:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active Marketsfor
IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$10,129Â $10,129Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills2,994Â â€”Â 2,994Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills15,689Â â€”Â 15,689Â â€”Â Municipal bonds499Â â€”Â 499Â â€”Â Corporate debt securities102,375Â â€”Â 102,375Â â€”Â Asset-backed
securities33,076Â â€”Â 33,076Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts13,453Â â€”Â 13,453Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets297,180Â 297,180Â â€”Â â€”Â Total
assets$475,395Â $307,309Â $168,086Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$15,761Â $â€”Â $15,761Â $â€”Â Other long-term liabilities:Deferred compensation plan liabilities297,180Â 297,180Â â€”Â â€”Â Total liabilities$312,941Â $297,180Â $15,761Â $â€”Â Assets/Liabilities Measured at Fair Value on a Non-Recurring BasisNon-Marketable Equity SecuritiesNon-marketable equity securities are classified within Level 3 as they are valued using a combination of observable transaction price and unobservable inputs or data in an inactive market due to the absence of market price and inherent lack of liquidity. X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 107 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-107Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 940 -SubTopic 820 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478119/940-820-50-1 + Details Name: us-gaap_FairValueDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 30 R19.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Bridge Commitment Letter, Term Loan and Revolving Credit Facilities 9 Months Ended Jul. 31, 2024 Debt Disclosure [Abstract] Â Bridge Commitment Letter, Term Loan and Revolving Credit Facilities Bridge Commitment Letter, Term Loan and Revolving Credit FacilitiesOn January 15, 2024, we entered into the Bridge Commitment Letter with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, the Bridge Commitment. The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7Â billion. The proceeds of any borrowing under the Bridge Commitment will be used for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement.The commitments to provide the Bridge Commitment may be terminated in whole or reduced in part, at our discretion. In addition, the Bridge Commitment Letter provides that net cash proceeds received from certain debt and equity issuances or the sale of certain businesses and assets, including the pending Software Integrity Divestiture, as well as term loan commitments under certain qualifying term loan facilities, will result in mandatory commitment reductions under the Bridge Commitment.On February 13, 2024, we entered into the Term Loan Agreement in connection with the financing of the pending Ansys Merger. The Term Loan Agreement provides us with the ability to borrow up to $4.3Â billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. The Term Loan Agreement provides for two tranches of senior unsecured term loans: a $1.45Â billion tranche (Tranche 1) that matures two years after funding and a $2.85Â billion tranche (Tranche 2) that matures three years after funding. There was no outstanding balance under the Term Loan Agreement as of JulyÂ 31, 2024.The Term Loan Agreement contains a financial covenant requiring that Synopsys maintain a maximum consolidated leverage ratio commencing the last day of the first fiscal quarter ending on or after the completion of the Ansys Merger, as well as other non-financial covenants. Under the Term Loan Agreement, borrowings will bear interest on the principal amount outstanding at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.875% to 1.375% (in the case of Tranche 1) or 1.000% to 1.500% (in the case of Tranche 2) or (ii) the ABR (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.000% to 0.375% (in the case of Tranche 1) or 0.000% to 0.500% (in the case of Tranche 2). On May 14, 2024, a ticking fee began to accrue under the Term Loan Agreement in an amount equal to a rate per annum equal to 0.10% times the actual daily undrawn portion of the commitments in respect of the term loan facility. This ticking fee will accrue until the earlier of (i) termination or expiration of the commitments under the term loan facility or (ii) the funding of the commitments, at which point the accrued amount of the ticking fee will become payable.On FebruaryÂ 13, 2024, we entered into a Sixth Amendment Agreement (the Sixth Amendment), which amended and restated our previous revolving credit agreement, dated as of December 14, 2022 (as amended and restated, the Revolving Credit Agreement).The Revolving Credit Agreement provides an unsecured $850.0Â million committed multicurrency revolving credit facility and an unsecured uncommitted incremental revolving loan facility of up to $150.0Â million. The maturity date of the revolving credit facility is December 14, 2027, which may be extended at our option.Under the Sixth Amendment, certain amendments became effective on FebruaryÂ 13, 2024 and certain additional amendments will become effective upon the completion of the Ansys Merger. Upon the effective date, the Sixth Amendment amended the financial covenant to allow netting of the cash proceeds of certain debt incurred to finance the Ansys Merger as well as certain other modifications set forth therein. Upon the completion of the Ansys Merger, the Sixth Amendment, among other things: (i) amends the applicable margin used to determine the interest that accrues on loans and the facility fee payable under the revolving credit facility to be based on our credit ratings, (ii) amends the financial covenant thresholds under the financial covenant in the Revolving Credit Agreement requiring us to maintain a maximum consolidated leverage ratio and (iii) amends certain conditions to borrowing, other non-financial covenants and events of default.The Revolving Credit Agreement contains a financial covenant requiring us to maintain

a maximum consolidated leverage ratio, as well as other non-financial covenants. As of JulyÂ 31, 2024, we were in compliance with the financial covenant.Interest accrues on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate (as defined in the Revolving Credit Agreement) plus an applicable margin or (ii) the ABR (as defined in the Revolving Credit Agreement) plus an applicable margin. The applicable margin for Adjusted Term SOFR Rate based loans ranges from 0.785% to 0.975%, based upon Synopsysâ€™ consolidated leverage ratio. The applicable margin for ABR based loans is 0.000%. In addition to the interest on any outstanding loans, Synopsys is also required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.09% to 0.15%Â based on Synopsysâ€™ consolidated leverage ratio on the daily amount of the revolving commitment.Subject to the completion of the Ansys Merger, interest under the Revolving Credit Agreement will accrue on dollar-denominated loans at a floating rate based on, at Synopsysâ€™ election, (i) the Adjusted Term SOFR Rate plus an applicable margin based on our credit ratings ranging from 0.795% to 1.200% or (ii) the ABR plus an applicable margin based on our credit ratings ranging from 0.000% to 0.200%. In addition to the interest on any outstanding loans, Synopsys will also be required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.080% to 0.175% based on the credit ratings of Synopsys on the daily amount of the revolving commitment.There was no outstanding balance under the Revolving Credit Agreement as of JulyÂ 31, 2024 and OctoberÂ 31, 2023. In July 2018, we entered into a 12-year 220.0 million Renminbi (approximately $33.0 million) credit agreement with a lender in China to support our facilities expansion. Borrowings bear interest at a floating rate based on the 5-year Loan Prime Rate plus 0.74%. As of JulyÂ 31, 2024, we had $15.6 million outstanding balance under the agreement.The carrying amount of the short-term and long-term debt approximates the estimated fairÂ value. X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/470/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1I + Details Name: us-gaap_DebtDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 31 R20.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases 9 Months Ended Jul. 31, 2024 Leases [Abstract] Â Leases LeasesWe have operating lease arrangements for office space, data center, equipment and other corporate assets. These leases have various expiration dates through DecemberÂ 31, 2042, some of which include options to extend the leases for up to 10 years. Because we are not reasonably certain to exercise these renewal options, the options are not considered in determining the lease term and associated potential option payments are excluded from lease payments.The components of our lease expense during the period presented are as follows:Three Months Ended July 31,Nine Months Ended July 31,20242023202420232024(inÂ thousands)Operating lease expense (1)$23,800Â $22,018Â $67,848Â $68,165Â Variable lease expense (2)5,182Â 5,622Â 16,761Â 14,684Â Total lease expense$28,982Â $27,640Â $84,609Â $82,849Â (1) Operating lease expense includes immaterial amounts of short-term leases, net of sublease income.(2) Variable lease expense includes payments to lessors that are not fixed or determinable at lease commencement date. These payments primarily consist of maintenance, property taxes, insurance and variable indexed based payments. Supplemental cash flow information during the period presented is as follows:Nine Months Ended July 31,20242023(in thousands)Cash paid for amounts included in the measurement of operating lease liabilities(1)$74,715Â $66,556Â ROU assets obtained in exchange for operating lease liabilities(2)$64,790Â $81,027Â (1) Cash paid for amounts included in the measurement of operating lease liabilities included cash from discontinued operations of $4.3 million and $4.3 million for the periods presented.(2) ROU assets obtained in exchange for operating lease liabilities included ROU assets from discontinued operations of $0.7 million and $1.4 million for the periods presented.Lease term and discount rate information related to our operating leases as of the end of the period presented are as follows: As ofJuly 31, 2024October 31, 2023Weighted-average remaining lease term (in years)7.778.44Weighted-average discount rate2.76Â %2.50Â %The following table represents the maturities of our future lease payments due under operating leases as of JulyÂ 31, 2024:Lease PaymentsFiscal year(in thousands)Remainder of fiscal 2024$20,499Â 2025112,496Â 2026106,262Â 2027103,600Â 202888,298Â 2029 and thereafter304,542Â Total future minimum lease payments735,697Â Less: Imputed interest77,421Â Total lease liabilities$658,276Â In addition, certain facilities owned by us were leased to third parties under non-cancellable operating lease agreements. These leases have annual escalating payments and have expiration dates through March 31, 2031 in accordance with the terms and conditions of the existing agreement. The lease receipts from owned facilities, including sublease income from other facilities leased by us, due to us as ofÂ JulyÂ 31, 2024Â are as follows:Lease ReceiptsFiscal year(in thousands)Remainder of fiscal 2024$6,357Â 202525,351Â 202626,230Â 202727,376Â 202827,557Â 2029 and thereafter56,491Â Total$169,362Â X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/842-20/tableOfContent + Details Name: us-gaap_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 32 R21.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Redeemable Non-controlling Interest 9 Months Ended Jul. 31, 2024 Noncontrolling Interest [Abstract] Â Redeemable Non-controlling Interest Redeemable Non-controlling InterestDuring the second quarter of fiscal 2022, we acquired a 75% equity interest in OpenLight Photonics, Inc. (OpenLight) for cash consideration of $90.0Â million. The remaining 25% equity interest in OpenLight is held by Juniper Networks, Inc. (the Minority Investor) from their contribution of IP and certain tangible assets.The agreement with the Minority Investor contains redemption features whereby the interest held by the Minority Investor is redeemable either (1) at the option of the Minority Investor on or after the third anniversary of the acquisition or sooner in certain circumstances or (2) at our option beginning on the third anniversary of the acquisition. This option is exercisable at the greater of fair value at the time of redemption or $30.0Â million and was valued at $10.1Â million, resulting in a total consideration of $100.1Â million.During the nine months ended JulyÂ 31, 2024, our ownership interest in OpenLight was reduced to 71% as a result of the recognition of non-controlling interest upon issuance ofÂ OpenLight stock.During the nine months ended JulyÂ 31, 2024, OpenLight incurred a net loss of $28.9Â million, of which $6.9Â million was attributable to redeemable non-controlling interest. As of JulyÂ 31, 2024, the carrying value of the redeemable non-controlling interest was recorded at its estimated fair value of $31.0Â million in the condensed consolidated balance sheets. X - DefinitionThe entire disclosure for noncontrolling interest in consolidated subsidiaries, which could include the name of the subsidiary, the ownership percentage held by the parent, the ownership percentage held by the noncontrolling owners, the amount of the noncontrolling interest, the location of this amount on the balance sheet (when not reported separately), an explanation of the increase or decrease in the amount of the noncontrolling interest, the noncontrolling interest share of the net Income or Loss of the subsidiary, the location of this amount on the income statement (when not reported separately), the nature of the noncontrolling interest such as background information and terms, the amount of the noncontrolling interest represented by preferred stock, a description of the preferred stock, and the dividend requirements of the preferred stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContent + Details Name: us-gaap_MinorityInterestDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NoncontrollingInterestAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 33 R22.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accumulated Other Comprehensive Income (Loss) 9 Months Ended Jul. 31, 2024 Accumulated Other Comprehensive Income (Loss), Net of Tax [Abstract] Â Accumulated Other Comprehensive Income (Loss) Accumulated Other Comprehensive Income (Loss)The components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Cumulative currency translation adjustments$(165,578)$(170,104)Unrealized gains (losses) on derivative instruments, net of taxes(15,212)(25,224)Unrealized gains (losses) on available-for-sale securities, net of taxes678Â (1,086)Total$(180,112)$(196,414)The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420233Â (inÂ thousands)Reclassifications:Gains (losses) on cash flow hedges, net of taxesRevenues$2,689Â $(1,352)$(1,593)$(10,856)Operating expenses(611)(3,898)(763)(12,025)Total$2,078Â $(5,250)$(2,356)$(22,881)Amounts reclassified during the nine months ended JulyÂ 31, 2024 and 2023 primarily consisted of gains (losses) from our cash flow hedging activities. See Note 9. Financial Assets and Liabilities of the Notes to Condensed Consolidated Financial Statements. X - ReferencesNo definition available. + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTaxAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for comprehensive income, which includes, but is not limited to, 1) the amount of income tax expense or benefit allocated to each component of other comprehensive income, including reclassification adjustments, 2) the reclassification adjustments for each classification of other comprehensive income and 3) the ending accumulated balances for each component of comprehensive income. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/220/tableOfContent + Details Name: us-gaap_ComprehensiveIncomeNoteTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R23.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock Repurchase Program 9 Months Ended Jul. 31, 2024 Stock Repurchase Program [Abstract] Â Stock Repurchase Program Stock Repurchase ProgramIn fiscal 2022, our Board of Directors approved a stock repurchase program (the Program) with authorization to purchase up to $1.5 billion of our common stock. As of JulyÂ 31, 2024, $194.3 million remained available for future repurchases under the Program. However, in connection with the pending Ansys Merger, we have suspended the Program until we are able to reduce our expected debt levels.Stock repurchase activities as well as the reissuance of treasury stock for employee stock-based compensation purposes are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023(1)(2)2024(3)2023(1)Â (inÂ thousands)Total shares repurchasedâ€”Â 751Â 74Â 2,382Â Total cost of the repurchased shares$â€”Â $300,000Â $45,000Â $860,724Â Reissuance of treasury stock409Â 625Â 1,634Â 2,132Â (1) Excluded the 41,682 shares and $45.0 million equity forward contract from the May 2023 Accelerated Stock Repurchase program (ASR) settled in August 2023.(2) Included the 105,792 shares and $45.0Â million equity forward contract from the February 2023 ASR settled in May 2023.(3) Included the 73,903 shares and $45.0 million equity forward contract from the August 2023 ASR settled in November 2023. X - DefinitionStock Repurchase Program + ReferencesNo definition available. + Details Name: snps_StockRepurchaseProgramAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for treasury stock, including, but not limited to, average cost per share, description of share repurchase program, shares repurchased, shares held for each class of treasury stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505-30/tableOfContent + Details Name: us-gaap_TreasuryStockTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 35 R24.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation 9 Months Ended Jul. 31, 2024 Share-Based Payment Arrangement [Abstract] Â Stock-Based Compensation Stock-Based CompensationThe compensation cost recognized in the condensed consolidated statements of income for our stock compensation arrangements is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420233Â (inÂ thousands)Cost of products$14,645Â $12,787Â $44,824Â $38,149Â Cost of maintenance and service9,677Â 7,765Â 28,126Â 22,451Â Research and development expense89,279Â 72,784Â 269,087Â 211,664Â Sales and marketing expense30,251Â 23,697Â 91,811Â 68,094Â General and administrative expense20,502Â 14,463Â 58,702Â 44,096Â Stock-based compensation expense from continuing operations before taxes164,354Â 131,496Â 492,550Â 384,454Â Stock-based compensation expense from discontinued operations before taxes17,185Â 12,968Â 47,476Â 37,495Â Total stock-based compensation expense before taxes181,539Â 144,464Â 540,026Â 421,949Â Income tax benefit(29,972)(23,172)(89,158)(67,681)Stock-based compensation expense after taxes$151,567Â $121,292Â $450,868Â $354,268Â During the three and nine months ended JulyÂ 31, 2024 and 2023, we recognized stock-based

compensation expense relating to restricted stock units (RSUs) granted to senior executives with certain market, performance and service conditions (market-based RSUs). The grant date fair value of the market-based RSUs and the assumptions used in the Monte Carlo simulation model to determine the grant date fair value during the periods were as follows:Â Nine Months EndedÂ Â July 31,Â 20242023Expected life (in years)2.89 years0.90 years - 2.70 years Risk-free interest rate4.41%4.36% - 4.63%Volatility34.03%35.84% - 42.86%Grant date fair value$600.29$357.29 - $408.55As of JulyÂ 31, 2024, we had $1.3 billion of total unrecognized stock-based compensation expense from continuing and discontinued operations relating to options, RSUs and restricted stock awards, which is expected to be recognized over a weighted-average period of 2.3 years. As of JulyÂ 31, 2024, we had $70.3 million of unrecognized stock-based compensation expense from continuing and discontinued operations relating to our Employee Stock Purchase Plan, which is expected to be recognized over a period of approximately 2.0 years.The intrinsic values of equity awards exercised from continuing and discontinued operations during the periods are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 2024202320242023Â (in thousands)Intrinsic value of awards exercised$90,973Â $94,116Â $166,993Â $212,339Â X - DefinitionThe entire disclosure for share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/718/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 36 R25.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Income (Loss) Per Share 9 Months Ended Jul. 31, 2024 Earnings Per Share [Abstract] Â Net Income (Loss) Per Share Net Income (Loss) Per ShareWe compute basic net income (loss) per share by dividing net income available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted net income (loss) per share reflects the dilution from potential common shares outstanding such as stock options and unvested RSUs and awards during the period using the treasury stock method.The table below reconciles the weighted average common shares used to calculate basic net income (loss) per share with the weighted average common shares used to calculate diluted net income (loss) per share:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 2024202320242023Â (inÂ thousands, except per share amounts)Numerator:Net income from continuing operations attributed to Synopsys$425,868Â $335,708Â $1,162,429Â $880,994Â Net income (loss) from discontinued operations attributed to Synopsys(17,813)544Â (13,155)(296)Net income attributed to Synopsys$408,055Â $336,252Â $1,149,274Â $880,698Â Denominator:Weighted average common shares for basic net income per share153,417Â 152,023Â 152,885Â 152,204Â Dilutive effect of common share equivalents from equity-based compensation2,714Â 2,924Â 2,978Â 2,915Â Weighted average common shares for diluted net income per share156,131Â 154,947Â 155,863Â 155,119Â Net income (loss) per share attributed to Synopsys - basic:Continuing operations$2.78Â $2.21Â $7.60Â $5.79Â Discontinued operations(0.12)â€”Â (0.08)â€”Â Basic net income per share$2.66Â $2.21Â $7.52Â $5.79Â Net income (loss) per share attributed to Synopsys - diluted:Continuing operations$2.73Â $2.17Â $7.46Â $5.68Â Discontinued operations(0.12)â€”Â (0.09)â€”Â Diluted net income per share$2.61Â $2.17Â $7.37Â $5.68Â Anti-dilutive employee stock-based awards excluded211Â 289Â 203Â 454Â X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for earnings per share. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/260/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-3 + Details Name: us-gaap_EarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 37 R26.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure 9 Months Ended Jul. 31, 2024 Segment Reporting [Abstract] Â Segment Disclosure Segment DisclosureSegment reporting is based upon the â€œmanagement approach,â€ i.e.,Â how management organizes our operating segments for which separate financial information is (1)Â available and (2)Â evaluated regularly by the CODM in deciding how to allocate resources and in assessing performance. Our CODM is our CEO.We have two reportable segments: (1) Design Automation, which includes our advanced silicon design, verification products and services, system integration products and services, digital, custom and field programmable gate array (FPGA) IC design software, verification software and hardware products, manufacturing software products and other; and (2) Design IP, which includes our Design IP products.The financial information provided to and used by the CODM to assist in making operational decisions, allocating resources, and assessing performance includes consolidated financial information as well as revenue, adjusted operating income, and adjusted operating margin information for the Design Automation and Design IP segments, accompanied by disaggregated information relating to revenue by geographic region. In accordance with applicable accounting guidance, the results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements.Information by reportable segment is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total Segments:Revenue$1,525,749Â $1,354,390Â $4,491,450Â $3,850,631Â Adjusted operating income610,589Â 492,791Â 1,758,823Â 1,380,537Â Adjusted operating margin40Â %36Â %39Â %36Â %Design Automation:Revenue$1,062,666Â $1,004,156Â $3,102,938Â $2,821,570Â Adjusted operating income440,864Â 410,023Â 1,218,574Â 1,102,837Â Adjusted operating margin41Â %41Â %39Â %39Â %Design IP:Revenue$463,083Â $350,234Â $1,388,512Â $1,029,061Â Adjusted operating income169,725Â 82,768Â 540,249Â 277,700Â Adjusted operating margin37Â %24Â %39Â %27Â %Certain operating expenses are not allocated to the segments and are managed at a consolidated level. The unallocated expenses managed at a consolidated level, including amortization of acquired intangible assets, stock-based compensation, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture related items, are presented in the table below to provide a reconciliation of the total adjusted operating income from segments to our consolidated operating income from continuing operations:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total segment adjusted operating income$610,589Â $492,791Â $1,758,823Â $1,380,537Â Reconciling items:Amortization of acquired intangible assets(18,572)(13,008)(53,317)(38,632)Stock-based compensation expense(164,354)(131,496)(492,550)(384,454)Deferred compensation plan(25,780)(21,492)(76,276)(44,123)Restructuring chargesâ€”Â (21,879)â€”Â (54,439)Acquisition/divestiture related items(41,672)(4,840)(91,771)(9,815)Total operating income$360,211Â $300,076Â $1,044,909Â $849,074Â The CODM does not use total assets by segment to evaluate segment performance or allocate resources. As a result, total assets by segment are not disclosed.In allocating revenue to particular geographic areas, the CODMÂ considers where individual â€œseatsâ€ or licenses to our products are located. Revenue is defined as revenue from external customers. Revenue related to operations in the United States and other geographic areas are:Â Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Revenue:United States$660,479Â $561,500Â $2,015,066Â $1,733,107Â Europe144,631Â 125,789Â 429,377Â 377,087Â China266,699Â 292,079Â 729,583Â 673,575Â Korea194,817Â 161,848Â 569,538Â 459,384 revenue data for multi-regional, multi-product transactions reflect internal allocations and are therefore subject to certain assumptions and to our allocation methodology. X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 10: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 34 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-34Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-15Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/280/tableOfContentReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32 + Details Name: us-gaap_SegmentReportingDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 38 R27.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Interest and Other Income (Expense), Net 9 Months Ended Jul. 31, 2024 Other Income and Expenses [Abstract] Â Interest and Other Income (Expense), Net Interest and Other Income (Expense), NetThe following table presents the components of interest and other income (expense), net:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Interest income$15,717Â $11,877Â $40,508Â $26,875Â Interest expense(11,752)(342)(19,409)(918)Gains (losses) on assets related to deferred compensation plan25,780Â 21,492Â 76,276Â 44,123Â Foreign currency exchange gains (losses)329Â 26Â 3,438Â 352Â Gain on sale of strategic investmentsâ€”Â â€”Â 55,077Â â€”Â Other, net1,710Â (7,569)(9,820)(17,801)Total$31,784Â $25,484Â $146,070Â $52,631Â X - ReferencesNo definition available. + Details Name: us-gaap_OtherIncomeAndExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for other income or other expense items (both operating and nonoperating). Sources of nonoperating income or nonoperating expense that may be disclosed, include amounts earned from dividends, interest on securities, profits (losses) on securities, net and miscellaneous other income or income deductions. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 720 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/720/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Topic 610 -Publisher FASB -URI https://asc.fasb.org/610/tableOfContent + Details Name: us-gaap_OtherIncomeAndOtherExpenseDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 39 R28.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes 9 Months Ended Jul. 31, 2024 Income Tax Disclosure [Abstract] Â Income Taxes Income TaxesEffective Tax RateWe estimate our annual effective tax rate at the end of each fiscal quarter. The effective tax rate takes into account our estimations of annual pre-tax income, the geographic mix of pre-tax income and interpretations of tax laws and possible outcomes of audits.The following table presents the provision for income taxes and the effective tax rates:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Income before income taxes$391,995Â $325,560Â $1,190,979Â $901,705Â Provision (benefit) for income taxes$(30,712)$(6,951)$37,634Â $29,779Â Effective tax rate(7.8)%(2.1)%3.2Â %3.3Â %Our effective tax rate for the nine months ended JulyÂ 31, 2024, is lower than the statutory federal corporate tax rate of 21% primarily due to U.S. federal research tax credits, foreign-derived intangible income deduction, excess tax benefits from stock-based compensation, U.S. foreign tax credits, and tax benefits from a valuation allowance release against California research credits, partially offset by state taxes and the effect of non-deductible stock-based compensation.Our effective tax rate decreased in the three months ended JulyÂ 31, 2024, as compared to the same period in fiscal 2023, primarily due to the tax benefits recorded as a result of the valuation allowance release. Our effective tax rate for the nine months ended JulyÂ 31, 2024 is consistent with the same period in fiscal 2023.The timing of the resolution of income tax

examinations, and the amounts and timing of various tax payments that are part of the settlement process, are highly uncertain. Variations in such amounts and/or timing could cause large fluctuations in the balance sheet classification of current and non-current assets and liabilities. We believe that in the coming 12 months, it is reasonably possible that either certain audits and ongoing tax litigation will conclude or the statute of limitations on certain state and foreign income and withholding taxes will expire, or both. Given the uncertainty as to ultimate settlement terms, the timing of payment and the impact of such settlements on other uncertain tax positions, the range of the estimated potential decrease in underlying unrecognized tax benefits is between $0 and $7.0 million.Non-U.S. ExaminationsHungarian Tax AuthorityIn 2017, the Hungarian Tax Authority (the HTA) assessed withholding taxes of approximately $25.0 million and interest and penalties of $11.0 million against our Hungary subsidiary (Synopsys Hungary).Â Synopsys Hungary contested the assessment with the Hungarian Administrative Court (Administrative Court). In fiscal 2018, Synopsys Hungary paid the assessment. Following years of litigation, the Administrative Court issued its written decision in favor of Synopsys Hungary on May 17, 2023, and the HTA subsequently refunded Synopsys Hungary the tax, penalty and interest paid in fiscal 2018, as well as additional interest totaling $39.1Â million (including foreign currency effects). During the third quarter of fiscal 2023, we released our unrecognized tax benefit and offsetting U.S. foreign tax credits, resulting in a net benefit of $23.8Â million.We are also under examination by the tax authorities in certain other jurisdictions. No material assessments have been proposed in these examinations. Legislative DevelopmentsEffective our fiscal 2024, we are subject to the new 15% corporate alternative minimum tax (CAMT) enacted as part of the Inflation Reduction Act of 2022. We do not expect any impact of CAMT in fiscal 2024.On January 31, 2024, the House of Representatives has passed the Tax Relief for American Families and Workers Act of 2024 (H.R. 7024) which would defer the requirement of capitalizing research and development, based in the United States, until tax years starting after December 31, 2025. The proposed legislation would have a beneficial impact on our cash tax liabilities, if enacted. The Senate rejected the bill in August 2024 and its future remains uncertain.On June 27, 2024, California enacted SB-167, which suspends the use of California net operating loss and limits the use of California research tax credits to $5 million each year for our fiscal 2025-2027. On June 29, 2024, California enacted SB-175, which provides a refund mechanism for the incremental tax that was paid as a result of SB-167. We are evaluating the impact of the law change. X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for income tax. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12CReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12BReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477891/740-270-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.5.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/740/tableOfContentReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-14Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-21Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2 + Details Name: us-gaap_IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 40 R29.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Contingencies 9 Months Ended Jul. 31, 2024 Commitments and Contingencies Disclosure [Abstract] Â Contingencies ContingenciesLegal ProceedingsWe are subject to routine legal proceedings, as well as demands, claims and threatened litigation that arise in the normal course of our business. The ultimate outcome of any litigation is often uncertain and unfavorable outcomes could have a negative impact on our results of operations and financial condition. We regularly review the status of each significant matter and assess our potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount is estimable, we accrue a liability for the estimated loss. Legal proceedings are inherently uncertain and, as circumstances change, it is possible that the amount of any accrued liability may increase, decrease or be eliminated. We have determined that, except as set forth below, no disclosure of estimated loss is required for a claim against us because: (1)Â there is not a reasonable possibility that a loss exceeding amounts already recognized (if any) may be incurred with respect to such claim; (2)Â a reasonably possible loss or range of loss cannot be estimated; or (3)Â such estimate is immaterial.Legal SettlementIn March 2017, Siemens PLM Software (now Siemens Industry Software Inc. or SISW) acquired Mentor Graphics Corporation (Mentor). On June 29, 2018, we, SISW and Mentor settled all outstanding patent litigation between us and Mentor for a $65.0Â million payment made from us to Mentor. As a result of the settlement, the litigation with Mentor was dismissed and the injunction entered in connection with that litigation was vacated. The settlement included mutual seven-year patent cross-licenses between us and SISW, and between us and Mentor. We and Mentor also amended an existing interoperability agreement to collaborate on a wide range of EDA products for the benefit of our mutual customers (the interoperability amendment). The interoperability amendment includes a one-time termination charge between $0.0 and $25.0Â million, payable to SISW under certain conditions. Mentor no longer exists as an independent entity and is succeeded by SISW.In June 2024, the parties extended the existing patent cross-license to December 31, 2031, and entered into a new cross-license of patents related to certain computer-aided engineering technology. The new cross-license is conditioned on the close of the Ansys Merger and expires on December 31, 2031. The interoperability amendment expires by its terms on June 29, 2025.Tax MattersWe undergo examination from time to time by U.S. and foreign authorities for non-income based taxes, such as sales, use and value-added taxes, and are currently under examination by tax authorities in certain jurisdictions. If the potential loss from such examinations is considered probable and the amount or the range of loss could be estimated, we would accrue a liability for the estimated expense.In addition to the foregoing, we are, from time to time, party to various other claims and legal proceedings in the ordinary course of our business, including with tax and other governmental authorities. For a description of certain of these other matters, see Note 20. Income Taxes of the Notes to Condensed Consolidated Financial Statements in this Quarterly Report on Form 10-Q. X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 41 R30.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pay vs Performance Disclosure - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Pay vs Performance Disclosure Â Â Â Â Net Income (Loss) $ 408,055 $ 336,252 $ 1,149,274 $ 880,698 X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 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-Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards 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https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period

Type: duration XML 42 R31.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Insider Trading Arrangements 3 Months Ended Jul. 31, 2024 Trading Arrangements, by Individual Â Rule 10b5-1 Arrangement Adopted false Non-Rule 10b5-1 Arrangement Adopted false Rule 10b5-1 Arrangement Terminated false Non-Rule 10b5-1 Arrangement Terminated false X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A + Details Name: ecd_TradingArrByIndTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 43 R32.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Summary of Significant Accounting Policies and Basis of Presentation (Policies) 9 Months Ended Jul. 31, 2024 Accounting Policies [Abstract] Â Use of Estimates Use of Estimates. To prepare financial statements in conformity with U.S. GAAP, management must make estimates and assumptions that affect the amounts reported in the condensed consolidated financial statements and accompanying notes. Actual results could differ from these estimates and could have a material impact on our operating results and financial position. Principles of Consolidation Principles of Consolidation. The condensed consolidated financial statements include our accounts and the accounts of our wholly and majority-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation. Fiscal Year and Fiscal Quarter End Fiscal Year and Fiscal Quarter End. Our fiscal year ends on the Saturday nearest to OctoberÂ 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023. Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on August 3, 2024 and July 29, 2023, respectively. For presentation purposes, the condensed consolidated financial statements and accompanying notes refer to the closest calendar month end. Software Integrity Divestiture Software Integrity Divestiture. During the second quarter of fiscal 2024, we determined that our Software Integrity business met the criteria to be classified as a discontinued operation, and, as a result, Software Integrityâ€™s historical financial results are reflected in our consolidated financial statements as discontinued operations, and assets and liabilities were retrospectively reclassified as assets and liabilities held for sale. We did not allocate any general corporate overhead to discontinued operations. Recently Issued Accounting Pronouncements Recently Issued Accounting PronouncementsIn June 2022, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2022-03, Fair Value Measurement (Topic 820): Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions, which applies to all equity securities measured at fair value that are subject to contractual sale restrictions. This change prohibits entities from taking into account contractual restrictions on the sale of equity securities when estimating fair value and introduces required disclosures for such transactions. The ASU will become effective for us beginning on November 1, 2024 and will be applied prospectively. Early adoption is permitted. Any future impact from the adoption of this ASU will depend on the facts and circumstances of future transactions.In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The ASU expands public entitiesâ€™ segment disclosures by requiring disclosure of significant segment expenses that are regularly provided to the Chief Operating Decision Maker (CODM) and included within each reported measure of segment profit or loss, an amount and description of its composition for other segment items, and interim disclosures of a reportable segmentâ€™s profit or loss and assets. The ASU is effective for our annual report beginning in the fiscal year 2025, and interim period reports beginning in the first quarter of the fiscal year 2026 on a retrospective basis. Early adoption is permitted. We are currently evaluating the impact of adopting this ASU on our consolidated financial statements and disclosures.In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which enhances the transparency and decision usefulness of income tax disclosures primarily through changes to the rate reconciliation and income taxes paid information. The ASU will become effective for us beginning on November 1, 2025 and will be applied on a prospective basis, with a retrospective option. Early adoption is permitted. We are currently evaluating the impact of this ASU on our consolidated financial statements and related disclosures. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy regarding (1) the principles it follows in consolidating or combining the separate financial statements, including the principles followed in determining the inclusion or exclusion of subsidiaries or other entities in the consolidated or combined financial statements and (2) its treatment of interests (for example, common stock, a partnership interest or other means of exerting influence) in other entities, for example consolidation or use of the equity or cost methods of accounting. The accounting policy may also address the accounting treatment for intercompany accounts and transactions, noncontrolling interest, and the income statement treatment in consolidation for issuances of stock by a subsidiary. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1 + Details Name: us-gaap_ConsolidationPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for discontinued operations. Includes, but is not limited to, method of interest allocation to a discontinued operation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 205 -SubTopic 20 -Section S99 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480781/205-20-S99-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1 + Details Name: us-gaap_DiscontinuedOperationsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for determining an entity's fiscal year or other fiscal period. This disclosure may include identification of the fiscal period end-date, the length of the fiscal period, any reporting period lag between the entity and its subsidiaries, or equity investees. If a reporting lag exists, the closing date of the entity having a different period end is generally noted, along with an explanation of the necessity for using different closing dates. Any intervening events that materially affect the entity's financial position or results of operations are generally also disclosed. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-12 + Details Name: us-gaap_FiscalPeriod Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-9Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-12Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-8 + Details Name: us-gaap_UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 44 R33.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations (Tables) 9 Months Ended Jul. 31, 2024 Discontinued Operations and Disposal Groups [Abstract] Â Schedule of Discontinued Operations The following table presents the major components of financial results of our Software Integrity business for the periods presented:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,20242023202420232023(in thousands)Revenue$127,917Â $132,898Â $392,579Â $392,860Â Cost of revenue40,279Â 47,050Â 136,010Â 145,188Â Operating expenses91,854Â 90,450Â 262,745Â 258,008Â Interest and other income (expense), net605Â 324Â 1,601Â 722Â Income (loss) from discontinued operations before income taxes(3,611)(4,278)(4,575)(9,614)Income tax provisions (benefits)14,202Â (4,822)8,580Â (9,318)Income (loss) from discontinued operations, net of income taxes$(17,813)$544Â $(13,155)$(296)The following table represents the aggregated carrying amounts of classes of assets and liabilities that are classified as discontinued operations on the condensed consolidated balance sheets for the periods presented:July 31, 2024(in thousands)Assets:Cash and cash equivalents$17,441Â Accounts receivable, net78,930Â Prepaid and other assets48,550Â Property and equipment, net6,373Â Operating lease right-of use assets, net6,646Â Goodwill724,294Â Intangible assets, net119,141Â Deferred income taxes26,327Â Total current assets held for sale$1,027,702Â Liabilities:Accounts payable and accrued liabilities$91,874Â Operating lease liabilities5,626Â Deferred revenue233,794Â Total current liabilities held for sale$331,294Â October 31, 2023(in thousands)Assets:Cash and cash equivalents$4,947Â Accounts receivable, net90,307Â Prepaid and other current assets19,400Â Total current assets held for sale$114,654Â Property and equipment, net$7,424Â Operating lease right-of use assets, net8,906Â Goodwill724,271Â Intangible assets, net134,617Â Deferred income taxes7,388Â Other long-term assets26,153Â Total long-term assets held for sale$908,759Â Liabilities:Accounts payable and accrued liabilities$63,847Â Operating lease liabilities5,858Â Deferred revenue216,539Â Total current liabilities held for sale$286,244Â Long-term operating lease liabilities$4,349Â Long-term deferred revenue24,301Â Other long-term liabilities4,607Â Total long-term liabilities held for sale$33,257Â The following table presents significant non-cash items and capital expenditures of discontinued operations for the periods presented:Nine Months Ended July 31,20242023(in thousands)Amortization and depreciation$16,317Â $37,495Â Reduction of operating lease right-of-use assets$2,162Â $3,481Â Amortization of capitalized costs to obtain revenue contracts $20,808Â $21,398Â Stock-based compensation$47,476Â $37,495Â Deferred income taxes$18,939Â $7,388Â Purchases of property and equipment$972Â $2,351Â X - ReferencesNo definition available. + Details Name: us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of information related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 3 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5D -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5DReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3AReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 205 -SubTopic 20 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3 + Details Name: us-gaap_ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 45 R34.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue (Tables) 9 Months Ended Jul. 31, 2024 Revenue from Contract with Customer [Abstract] Â Schedule of Disaggregation of Revenue The following table shows the percentage of revenue by product groups:Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,20242023202420232023EDA66.9Â %71.8Â %66.8Â %71.3Â %Design IP30.4Â %25.9Â %30.9Â %26.7Â %Other2.7Â %2.3Â %2.3Â %2.0Â %Total100.0Â %100.0Â %100.0Â %100.0Â % Schedule of Contract Assets and Liabilities Contract balances are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Contract assets, net$693,874Â $375,904Â Unbilled receivables$33,603Â $60,016Â Deferred revenue$1,675,884Â $1,710,288Â X - DefinitionTabular disclosure of receivable, contract asset, and contract liability from contract with customer. Includes, but is not limited to, change in contract asset and contract liability. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10 + Details Name: us-gaap_ContractWithCustomerAssetAndLiabilityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5 + Details Name: us-gaap_DisaggregationOfRevenueTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 46 R35.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets (Tables) 9 Months Ended Jul. 31, 2024 Goodwill and Intangible Assets Disclosure [Abstract] Â Schedule of Goodwill The changes in the carrying amount of goodwill during the nine months ended JulyÂ 31, 2024 are as follows:Â (in thousands)Balance at OctoberÂ 31, 2023$3,346,065Â Additions97,521Â Adjustments173Â Effect of foreign currency translation590Â Balance at JulyÂ 31, 2024$3,444,349Â Schedule of Intangible Assets Intangible assets as of JulyÂ 31, 2024 consist of the following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (in thousands)Core/developed technology$904,381Â $711,119Â $193,262Â Customer relationships314,154Â 242,955Â 71,199Â Contract rights intangible176,343Â 174,724Â 1,619Â Trademarks and trade names12,925Â 12,913Â 12Â Total$1,407,803Â $1,141,711Â $266,092Â Intangible assets as of OctoberÂ 31, 2023 consist of the

following:Gross Carrying AmountAccumulatedAmortizationNet AmountÂ (inÂ thousands)Core/developed technology$842,448Â $672,480Â $169,968Â Customer relationships296,883Â 231,557Â 65,326Â Contract rights intangible175,747Â 171,487Â 4,260Â Trademarks and trade names12,925Â 12,902Â 23Â Capitalized software development costs50,795Â 50,795Â â€”Â Total$1,378,798Â $1,139,221Â $239,577Â Schedule of Amortization Expense Related to Intangible Assets Amortization expense related to intangible assets consists of the following:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Core/developed technology$13,447Â $10,436Â $38,373Â $31,427Â Customer relationships4,058Â 2,011Â 11,467Â 5,945Â Contract rights intangible1,063Â 558Â 3,465Â 1,257Â Trademarks and trade names4Â 3Â 12Â 3Â Capitalized software development costs(1)â€”Â 557Â â€”Â 1,626Â Total$18,572Â $13,565Â $53,317Â $40,258Â (1) Amortization of capitalized software development costs is included in cost of products revenue in the condensed consolidated statements of income. Schedule of Estimated Future Amortization of Acquired Intangible Assets The following table presents the estimated future amortization of acquired intangible assets as of JulyÂ 31, 2024:FiscalÂ year(inÂ thousands)Remainder of fiscal 2024$17,344Â 202562,103Â 202651,778Â 202746,831Â 202832,099Â 2029 and thereafter55,937Â Total$266,092Â X - DefinitionTabular disclosure of amortization expense of assets, excluding financial assets, that lack physical substance, having a limited useful life. + ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of goodwill by reportable segment and in total which includes a rollforward schedule. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1AReference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-2 + Details Name: us-gaap_ScheduleOfGoodwillTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite-lived intangible assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2 + Details Name: us-gaap_ScheduleofFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 47 R36.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheet Components (Tables) 9 Months Ended Jul. 31, 2024 Balance Sheet Related Disclosures [Abstract] Â Schedule of Balance Sheets Components As ofJuly 31, 2024October 31, 2023(in thousands)Other long-term assets:Deferred compensation plan assets$373,306Â $297,180Â Capitalized commission, net70,532Â 67,240Â Other135,935Â 80,400Â Total$579,773Â $444,820Â Accounts payable and accrued liabilities:Payroll and related benefits$530,948Â $531,848Â Accrued income taxes3,172Â 226,762Â Other accrued liabilities144,316Â 146,696Â Accounts payable78,547Â 154,608Â Total$756,983Â $1,059,914Â Other long-term liabilities:Deferred compensation plan liabilities$373,306Â $297,180Â Other91,927Â 84,351Â Total$465,233Â $381,531Â X - DefinitionSchedule of Balance Sheet, Supplemental Disclosures + ReferencesNo definition available. + Details Name: snps_ScheduleOfBalanceSheetSupplementalDisclosuresTableTextBlock Namespace Prefix: snps_ Data Type: dtr-types1:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_BalanceSheetRelatedDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 48 R37.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities (Tables) 9 Months Ended Jul. 31, 2024 Financial Assets And Liabilities [Abstract] Â Schedule of Cash Equivalents and Short-Term Investments As of July 31, 2024, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$44,537Â $â€”Â $â€”Â $â€”Â $44,537Â U.S. Treasury, agency & T-bills7,445Â 1Â â€”Â â€”Â 7,446Â Total:$51,982Â $1Â $â€”Â $â€”Â $51,983Â Short-term investments:U.S. Treasury, agency & T-bills$18,250Â $61Â $â€”Â (9)18,302Â Corporate debt securities104,267Â 528Â (13)(24)104,758Â Asset-backed securities31,237Â 164Â (2)(28)31,371Â Total:$153,754Â $753Â (15)(61)$154,431Â (1)See Note 10. Fair Value Measurements for further discussion on fair values.The contractual maturities of our available-for-sale debt securities as of JulyÂ 31, 2024 are as follows:Amortized CostFair Value(in thousands)less than 1 year$61,373Â $61,426Â 1-5 years87,412Â 88,022Â 5-10 years3,066Â 3,084Â >10 years1,903Â 1,899Â Total$153,754Â $154,431Â As of OctoberÂ 31, 2023, the balances of our cash equivalents and short-term investments are as follows:Amortized CostGrossUnrealizedGainsGrossUnrealizedLosses Less Than 12 Continuous MonthsGrossUnrealizedLosses 12 Continuous Months or LongerEstimatedFairÂ Value(1)Â (in thousands)Cash equivalents:Money market funds$10,129Â $â€”Â $â€”Â $â€”Â $10,129Â U.S. Treasury, agency & T-bills2,994Â â€”Â â€”Â â€”Â 2,994Â Total:$13,123Â $â€”Â $â€”Â $â€”Â $13,123Â Short-term investments:U.S. Treasury, agency & T-bills$15,752Â $â€”Â (61)(2)$15,689Â Municipal bonds515Â â€”Â â€”Â (16)499Â Corporate debt securities103,213Â 13Â (455)(396)102,375Â Asset-backed securities33,245Â 21Â (93)(97)33,076Â Total:$152,725Â $34Â (609)(511)$151,639Â (1)See Note 10. Fair Value Measurements for further discussion on fair values. Schedule of Cash, Cash Equivalents and Restricted Cash The following table provides a reconciliation of cash, cash equivalents and restricted cash included in the condensed consolidated balance sheets and the condensed consolidated statements of cash flows:As ofJuly 31, 2024October 31, 2023(in thousands)Cash and cash equivalents$1,839,815Â $1,433,966Â Restricted cash included in prepaid and other current assets1,536Â 1,549Â Restricted cash included in other long-term assets694Â 725Â Cash, cash equivalents and restricted cash$1,842,045Â $1,436,240Â Cash, cash equivalents and restricted cash from discontinued operations17,441Â 4,947Â Total cash, cash equivalents and restricted cash, including cash from discontinued operations$1,859,486Â $1,441,187Â Schedule of Effects on Changes in Fair Values of Non-Designated Forward Contracts The effects of the non-designated derivative instruments on the condensed consolidated statements of income are summarized as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (in thousands)Gains (losses) recorded in Interest and other income (expense), net$955Â $(1,205)$(110)$3,532Â Schedule of Notional Amounts of Derivative Instruments The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding:As ofJuly 31, 2024October 31, 2023Â (in thousands)Total gross notional amounts$1,816,755Â $1,666,758Â Net fair value$5,768Â $(2,308) Schedule of Fair Values of Derivative Instrument Designated and Non-Designated as Hedging Instruments in Balance Sheet The following table represents the condensed consolidated balance sheets location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments:FairÂ valuesÂ ofderivativeÂ instrumentsdesignatedÂ asÂ hedginginstrumentsFairÂ valuesÂ ofderivativeÂ instrumentsnot designated ashedging instrumentsÂ (in thousands)Balance at JulyÂ 31, 2024Other current assets$13,655Â $820Â Accrued liabilities$7,498Â $1,209Â Balance at OctoberÂ 31, 2023Other current assets$12,962Â $491Â Accrued liabilities$14,665Â $1,096Â Schedule of Income Statement Location and Amount of Gains and Losses on Derivative Instrument Fair Values for Designated Hedge Instruments, Net of Tax The following table represents the location of the amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax in the condensed consolidated statements of income:LocationÂ ofÂ gainsÂ (losses) recognized in OCI on derivativesAmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ onderivatives(effective portion)LocationÂ ofgainsÂ (losses)reclassifiedÂ from OCIAmountÂ ofgainsÂ (losses)reclassifiedÂ fromOCI(effectiveÂ portion)Â (in thousands)Three months endedÂ Â July 31, 2024ForeignÂ exchangeÂ contractsRevenue$4,501Â Revenue$2,689Â ForeignÂ exchangeÂ contractsOperatingÂ expenses(320)OperatingÂ expenses(611)Total$4,181Â $2,078Â Three months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$899Â Revenue$(1,352)Foreign exchangeÂ contractsOperatingÂ expenses5,008Â OperatingÂ expenses(3,898)Total$5,907Â $(5,250)Nine months endedÂ Â July 31, 2024ForeignÂ exchangeÂ contractsRevenue$1,936Â Revenue$(1,593)ForeignÂ exchangeÂ contractsOperatingÂ expenses5,720Â OperatingÂ expenses(763)Total$7,656Â $(2,356)Nine months endedÂ Â July 31, 2023Foreign exchangeÂ contractsRevenue$7,315Â Revenue$(10,856)Foreign exchangeÂ contractsOperatingÂ expenses36,174Â OperatingÂ expenses(12,025)Total$43,489Â $(22,881) X - DefinitionFinancial Assets and Liabilities [Abstract] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of cash and cash equivalents. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfCashAndCashEquivalentsTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the location and amount of derivative instruments and nonderivative instruments designated as hedging instruments reported before netting adjustments, and the amount of gain (loss) on derivative instruments and nonderivative instruments designated and qualified as hedging instruments. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4E -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4EReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4C -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4CReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4A + Details Name: us-gaap_ScheduleOfDerivativeInstrumentsGainLossInStatementOfFinancialPerformanceTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the location and fair value amounts of derivative instruments (and nonderivative instruments that are designated and qualify as hedging instruments) reported in the statement of financial position. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4B + Details Name: us-gaap_ScheduleOfDerivativeInstrumentsInStatementOfFinancialPositionFairValueTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of pertinent information about a derivative or group of derivatives on a disaggregated basis, such as for individual instruments, or small groups of similar instruments. May include a combination of the type of instrument, risks being hedged, notional amount, hedge designation, related hedged item, inception date, maturity date, or other relevant item. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 815 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-8Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-5Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4C -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4C + Details Name: us-gaap_ScheduleOfDerivativeInstrumentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of derivative instrument not designated or qualifying as hedging instrument. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4C -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4CReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 50 -Paragraph 4CC -SubTopic 10 -Topic 815 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4CC + Details Name: us-gaap_ScheduleOfOtherDerivativesNotDesignatedAsHedgingInstrumentsStatementsOfFinancialPerformanceAndFinancialPositionLocationTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of cash and cash equivalents restricted as to withdrawal or usage. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(1)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 8 -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8 + Details Name: us-gaap_ScheduleOfRestrictedCashAndCashEquivalentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 49 R38.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements (Tables) 9 Months Ended Jul. 31, 2024 Fair Value Disclosures [Abstract] Â Schedule of Assets and Liabilities Measured at Fair Value on Recurring Basis Assets and liabilities measured at fair value on a recurring basis are summarized below as of JulyÂ 31,

2024:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active MarketsforÂ IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$44,537Â 44,537Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills7,446Â â€”Â 7,446Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills18,302Â â€”Â 18,302Â â€”Â Corporate debt securities104,758Â â€”Â 104,758Â â€”Â Asset-backed securities31,371Â â€”Â 31,371Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts14,475Â â€”Â 14,475Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets373,306Â 373,306Â â€”Â â€”Â Total assets$594,195Â $417,843Â $176,352Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$8,707Â $â€”Â $8,707Â $â€”Â Other long-term liabilities:DeferredÂ compensationÂ plan liabilities373,306Â 373,306Â â€”Â â€”Â Total liabilities$382,013Â $373,306Â $8,707Â $â€”Â Assets and liabilities measured at fair value on a recurring basis are summarized below as of OctoberÂ 31, 2023:Â Â FairÂ ValueÂ MeasurementÂ UsingDescriptionTotalQuotedÂ PricesÂ inÂ Active Marketsfor IdenticalÂ Assets(LevelÂ 1)SignificantÂ OtherObservableÂ Inputs(LevelÂ 2)SignificantUnobservableÂ Inputs(LevelÂ 3)Â (in thousands)AssetsCash equivalents:Money market funds$10,129Â $10,129Â $â€”Â $â€”Â U.S. Treasury, agency & T-bills2,994Â â€”Â 2,994Â â€”Â Short-term investments:U.S. Treasury, agency & T-bills15,689Â â€”Â 15,689Â â€”Â Municipal bonds499Â â€”Â 499Â â€”Â Corporate debt securities102,375Â â€”Â 102,375Â â€”Â Asset-backed securities33,076Â â€”Â 33,076Â â€”Â PrepaidÂ andÂ otherÂ currentÂ assets:ForeignÂ currencyÂ derivativeÂ contracts13,453Â â€”Â 13,453Â â€”Â Other long-term assets:DeferredÂ compensationÂ planÂ assets297,180Â 297,180Â â€”Â â€”Â Total assets$475,395Â $307,309Â $168,086Â $â€”Â LiabilitiesAccountsÂ payableÂ andÂ accruedÂ liabilities:ForeignÂ currencyÂ derivativeÂ contracts$15,761Â $â€”Â $15,761Â $â€”Â Other long-term liabilities:Deferred compensation plan liabilities297,180Â 297,180Â â€”Â â€”Â Total liabilities$312,941Â $297,180Â $15,761Â $â€”Â X - DefinitionTabular disclosure of financial instrument measured at fair value on recurring or nonrecurring basis. Includes, but is not limited to, instrument classified in shareholders' equity. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-3 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 50 R39.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases (Tables) 9 Months Ended Jul. 31, 2024 Leases [Abstract] Â Schedule of Lease, Cost The components of our lease expense during the period presented are as follows:Three Months Ended July 31,Nine Months Ended July 31,20242023202420232024(inÂ thousands)Operating lease expense (1)$23,800Â $22,018Â $67,848Â $68,165Â Variable lease expense (2)5,182Â 5,622Â 16,761Â 14,684Â Total lease expense$28,982Â $27,640Â $84,609Â $82,849Â (1) Operating lease expense includes immaterial amounts of short-term leases, net of sublease income.(2) Variable lease expense includes payments to lessors that are not fixed or determinable at lease commencement date. These payments primarily consist of maintenance, property taxes, insurance and variable indexed based payments. Supplemental cash flow information during the period presented is as follows:Nine Months Ended July 31,20242023(in thousands)Cash paid for amounts included in the measurement of operating lease liabilities(1)$74,715Â $66,556Â ROU assets obtained in exchange for operating lease liabilities(2)$64,790Â $81,027Â (1) Cash paid for amounts included in the measurement of operating lease liabilities included cash from discontinued operations of $4.3 million and $4.3 million for the periods presented.(2) ROU assets obtained in exchange for operating lease liabilities included ROU assets from discontinued operations of $0.7 million and $1.4 million for the periods presented. Schedule of Lessee, Lease Term and Discount Rate Lease term and discount rate information related to our operating leases as of the end of the period presented are as follows: As ofJuly 31, 2024October 31, 2023Weighted-average remaining lease term (in years)7.778.44Weighted-average discount rate2.76Â %2.50Â % Schedule of Lessee, Operating Lease, Liability, Maturity The following table represents the maturities of our future lease payments due under operating leases as of JulyÂ 31, 2024:Lease PaymentsFiscal year(in thousands)Remainder of fiscal 2024$20,499Â 2025112,496Â 2026106,262Â 2027103,600Â 202888,298Â 2029 and thereafter304,542Â Total future minimum lease payments735,697Â Less: Imputed interest77,421Â Total lease liabilities$658,276Â Schedule of Lessor, Operating Lease, Payment to be Received, Fiscal Year Maturity The lease receipts from owned facilities, including sublease income from other facilities leased by us, due to us as ofÂ JulyÂ 31, 2024Â are as follows:Lease ReceiptsFiscal year(in thousands)Remainder of fiscal 2024$6,357Â 202525,351Â 202626,230Â 202727,376Â 202827,557Â 2029 and thereafter56,491Â Total$169,362Â X - DefinitionLessee, Lease Term and Discount Rate [Table Text Block] + ReferencesNo definition available. + Details Name: snps_LesseeLeaseTermandDiscountRateTableTextBlock Namespace Prefix: snps_ Data Type: dtr-types1:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of maturity of undiscounted cash flows to be received by lessor on annual basis for operating lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 51 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accumulated Other Comprehensive Income (Loss) (Tables) 9 Months Ended Jul. 31, 2024 Accumulated Other Comprehensive Income (Loss), Net of Tax [Abstract] Â Schedule of Components of Accumulated Other Comprehensive Income (Loss) The components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, are as follows:As ofJuly 31, 2024October 31, 2023Â (inÂ thousands)Cumulative currency translation adjustments$(165,578)$(170,104)Unrealized gains (losses) on derivative instruments, net of taxes(15,212)(25,224)Unrealized gains (losses) on available-for-sale securities, net of taxes678Â (1,086)Total$(180,112)$(196,414) Schedule of Effect of Amounts Reclassified out of Each Component of Accumulated Other Comprehensive Income (Loss) into Net Income The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Reclassifications:Gains (losses) on cash flow hedges, net of taxesRevenues$2,689Â $(1,352)$(1,593)$(10,856)Operating expenses(611)(3,898)(763)(12,025)Total$2,078Â $(5,250)$(2,356)$(22,881) X - ReferencesNo definition available. + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTaxAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of information about items reclassified out of accumulated other comprehensive income (loss). + ReferencesNo definition available. + Details Name: us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of accumulated other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20 + Details Name: us-gaap_ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 52 R41.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock Repurchase Program (Tables) 9 Months Ended Jul. 31, 2024 Stock Repurchase Program [Abstract] Â Schedule of Stock Repurchase And Reissuance Activities Stock repurchase activities as well as the reissuance of treasury stock for employee stock-based compensation purposes are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023(1)(2)2024(3)2023(1)Â (inÂ thousands)Total shares repurchasedâ€”Â 751Â 74Â 2,382Â Total cost of the repurchased shares$â€”Â $300,000Â $45,000Â $860,724Â Reissuance of treasury stock409Â 625Â 1,634Â 2,132Â (1) Excluded the 41,682 shares and $45.0 million equity forward contract from the May 2023 Accelerated Stock Repurchase program (ASR) settled in August 2023.(2) Included the 105,792 shares and $45.0Â million equity forward contract from the February 2023 ASR settled in May 2023.(3) Included the 73,903 shares and $45.0 million equity forward contract from the August 2023 ASR settled in November 2023. X - DefinitionStock Repurchase Program + ReferencesNo definition available. + Details Name: snps_StockRepurchaseProgramAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of treasury stock, including, but not limited to, average cost per share, description of share repurchase program, shares repurchased, shares held for each class of treasury stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-4Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_ScheduleOfTreasuryStockByClassTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 53 R42.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation (Tables) 9 Months Ended Jul. 31, 2024 Share-Based Payment Arrangement [Abstract] Â Schedule of Stock Compensation Arrangements The compensation cost recognized in the condensed consolidated statements of income for our stock compensation arrangements is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Cost of products$14,645Â $12,787Â $44,824Â $38,149Â Cost of maintenance and service9,677Â 7,765Â 28,126Â 22,451Â Research and development expense89,279Â 72,784Â 269,087Â 211,664Â Sales and marketing expense30,251Â 23,697Â 91,811Â 68,094Â General and administrative expense20,502Â 14,463Â 58,702Â 44,096Â Stock-based compensation expense from continuing operations before taxes164,354Â 131,496Â 492,550Â 384,454Â Stock-based compensation expense from discontinued operations before taxes17,185Â 12,968Â 47,476Â 37,495Â Total stock-based compensation expense before taxes181,539Â 144,464Â 540,026Â 421,949Â Income tax benefit(29,972)(23,172)(89,158)(67,681)Stock-based compensation expense after taxes$151,567Â $121,292Â $450,868Â $354,268Â Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions The grant date fair value of the market-based RSUs and the assumptions used in the Monte Carlo simulation model to determine the grant date fair value during the periods were as follows:Â Nine Months EndedÂ Â July 31,Â 20242023Expected life (in years)2.89 years0.90 years - 2.70 years Risk-free interest rate4.41%4.36% - 4.63%Volatility34.03%35.84% - 42.86%Grant date fair value$600.29$357.29 - $408.55 Schedule of Intrinsic Value of Equity Awards Exercised The intrinsic values of equity awards exercised from continuing and discontinued operations during the periods are as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (in thousands)Intrinsic value of awards exercised$90,973Â $94,116Â $166,993Â $212,339Â X - DefinitionSchedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions + ReferencesNo definition available. + Details Name: snps_ScheduleOfShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsTableTextBlock Namespace Prefix: snps_ Data Type: dtr-types1:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the total intrinsic value of options exercised (or share units converted), share-based liabilities paid, and the total fair value of shares vested during the year. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (d)(2) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGrantDateIntrinsicValueTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 54 R43.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Income (Loss) Per Share (Tables) 9 Months Ended Jul. 31, 2024 Earnings Per Share [Abstract] Â Schedule of Reconciliation of Weighted-Average Common Shares Used to Calculate Net Income Per Share The table below reconciles the weighted average common shares used to calculate basic net income (loss) per share with the weighted average common shares used to calculate diluted net income (loss) per share:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands, except per share amounts)Numerator:Net income from continuing operations attributed to Synopsys$425,868Â $335,708Â $1,162,429Â $880,994Â Net income (loss) from discontinued operations attributed to Synopsys(17,813)544Â (13,155)(296)Net income attributed to Synopsys$408,055Â $336,252Â $1,149,274Â $880,698Â Denominator:Weighted average common shares for basic net income per share153,417Â 152,023Â 152,885Â 152,204Â Dilutive effect of common share equivalents from equity-based compensation2,714Â 2,924Â 2,978Â 2,915Â Weighted average common shares for diluted net income per share156,131Â 154,947Â 155,863Â 155,119Â Net income (loss) per share attributed to Synopsys - basic:Continuing operations$2.78Â $2.21Â $7.60Â $5.79Â Discontinued operations(0.12)â€”Â (0.08)â€”Â Basic net income per share$2.66Â $2.21Â $7.52Â $5.79Â Net income (loss) per share attributed to Synopsys - diluted:Continuing operations$2.73Â $2.17Â $7.46Â $5.68Â Discontinued operations(0.12)â€”Â (0.09)â€”Â Diluted net income per share$2.61Â $2.17Â $7.37Â $5.68Â Anti-dilutive employee stock-based awards excluded211Â 289Â 203Â 454Â X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the weighted average number of shares used in calculating basic net earnings per share (or unit) and diluted earnings per share (or unit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfWeightedAverageNumberOfSharesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 55 R44.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure (Tables) 9 Months Ended Jul. 31, 2024

Segment Reporting [Abstract] Â Schedule of Segment Reporting Information Information by reportable segment is as follows:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total Segments:Revenue$1,525,749Â $1,354,390Â $4,491,450Â $3,850,631Â Adjusted operating income610,589Â 492,791Â 1,758,823Â 1,380,537Â Adjusted operating margin40Â %36Â %39Â %36Â %Design Automation:Revenue$1,062,666Â $1,004,156Â $3,102,938Â $2,821,570Â Adjusted operating income440,864Â 410,023Â 1,218,574Â 1,102,837Â Adjusted operating margin41Â %41Â %39Â %39Â %Design IP:Revenue$463,083Â $350,234Â $1,388,512Â $1,029,061Â Adjusted operating income169,725Â 82,768Â 540,249Â 277,700Â Adjusted operating margin37Â %24Â %39Â %27Â % Schedule of Reconciliation of Operating Income From Segment Consolidation The unallocated expenses managed at a consolidated level, including amortization of acquired intangible assets, stock-based compensation, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture related items, are presented in the table below to provide a reconciliation of the total adjusted operating income from segments to our consolidated operating income from continuing operations:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Total segment adjusted operating income$610,589Â $492,791Â $1,758,823Â $1,380,537Â Reconciling items:Amortization of acquired intangible assets(18,572)(13,008)(53,317)(38,632)Stock-based compensation expense(164,354)(131,496)(492,550)(384,454)Deferred compensation plan(25,780)(21,492)(76,276)(44,123)Restructuring chargesâ€”Â (21,879)â€”Â (54,439)Acquisition/divestiture related items(41,672)(4,840)(91,771)(9,815)Total operating income$360,211Â $300,076Â $1,044,909Â $849,074Â Schedule of Revenues Related to Operations by Geographic Areas Revenue related to operations in the United States and other geographic areas are:Â Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Revenue:United States$660,479Â $561,500Â $2,015,066Â $1,733,107Â Europe144,631Â 125,789Â 429,377Â 377,087Â China266,699Â 292,079Â 729,583Â 673,575Â Korea194,817Â 161,848Â 569,538Â 459,384Â X - DefinitionTabular disclosure of the reconciliation of profit (loss) from reportable segments to the consolidated income (loss) before income tax expense (benefit) and discontinued operations. Includes, but is not limited to, reconciliation after income tax if income tax is allocated to the reportable segment. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_ReconciliationOfOperatingProfitLossFromSegmentsToConsolidatedTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of revenue from external customers by geographic areas attributed to the entity's country of domicile and to foreign countries from which the entity derives revenue. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41 + Details Name: us-gaap_RevenueFromExternalCustomersByGeographicAreasTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the profit or loss and total assets for each reportable segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief operating decision maker or (b) are otherwise regularly provided to the chief operating decision maker, even if not included in that measure of segment profit or loss. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-25Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 30 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_ScheduleOfSegmentReportingInformationBySegmentTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 56 R45.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Interest and Other Income (Expense), Net (Tables) 9 Months Ended Jul. 31, 2024 Other Income and Expenses [Abstract] Â Schedule of Components of Interest and Other Income (Expense), Net The following table presents the components of interest and other income (expense), net:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Interest income$15,717Â $11,877Â $40,508Â $26,875Â Interest expense(11,752)(342)(19,409)(918)Gains (losses) on assets related to deferred compensation plan25,780Â 21,492Â 76,276Â 44,123Â Foreign currency exchange gains (losses)329Â 26Â 3,438Â 352Â Gain on sale of strategic investmentsâ€”Â â€”Â 55,077Â â€”Â Other, net1,710Â (7,569)(9,820)(17,801)Total$31,784Â $25,484Â $146,070Â $52,631Â X - ReferencesNo definition available. + Details Name: us-gaap_OtherIncomeAndExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of non-operating income or non-operating expense that may include amounts earned from dividends, interest on securities, gains (losses) on securities sold, equity earnings of unconsolidated affiliates, net gain (loss) on sales of business, interest expense and other miscellaneous income or expense items. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfOtherNonoperatingIncomeExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 57 R46.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes (Tables) 9 Months Ended Jul. 31, 2024 Income Tax Disclosure [Abstract] Â Schedule of Provision (Benefit) for Incomes Taxes and Effective Tax Rates The following table presents the provision for income taxes and the effective tax rates:Â Three Months EndedÂ Â July 31,Nine Months EndedÂ Â July 31,Â 20242023202420232Â (inÂ thousands)Income before income taxes$391,995Â $325,560Â $1,190,979Â $901,705Â Provision (benefit) for income taxes$(30,712)$(6,951)$37,634Â $29,779Â Effective tax rate(7.8)%(2.1)%3.2Â %3.3Â % X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the reconciliation using percentage or dollar amounts of the reported amount of income tax expense attributable to continuing operations for the year to the amount of income tax expense that would result from applying domestic federal statutory tax rates to pretax income from continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12AReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12 + Details Name: us-gaap_ScheduleOfEffectiveIncomeTaxRateReconciliationTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 58 R47.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations - Additional Information (Details) - Discontinued operations - Software Integrity business - Forecast $ in Millions Oct. 31, 2024 USD ($) day quarter Disposal Groups, Including Discontinued Operations [Line Items] Â Cash consideration $ 2,100 Consideration payable at closing 1,500 Consideration payable in installments $ 125 Number of fiscal quarters for consideration installment payments | quarter 5 Number of days until consideration installment payments begin | day 75 Contingent consideration $ 475 X - DefinitionDisposal Group Including Discontinued Operation, Consideration Payable at Closing + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationConsiderationPayableAtClosing Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDisposal Group Including Discontinued Operation, Consideration, Payable in Installments + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationConsiderationPayableInInstallments Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDisposal Group Including Discontinued Operation, Contingent Consideration + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationContingentConsideration Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Number Of Business Days Until Consideration Installment Payments Begin + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationNumberOfBusinessDaysUntilConsiderationInstallmentPaymentsBegin Namespace Prefix: snps_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Number Of Fiscal Quarters For Consideration Installment Payments + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationNumberOfFiscalQuartersForConsiderationInstallmentPayments Namespace Prefix: snps_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - DefinitionAmount of consideration received or receivable for the disposal of assets and liabilities, including discontinued operation. + ReferencesNo definition available. + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationConsideration Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsHeldForSaleOrDisposedOfBySaleMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=snps_SoftwareIntegrityBusinessMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 59 R48.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations - Schedule of Components of Financial Results (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Disposal Groups, Including Discontinued Operations [Line Items] Â Â Â Â Income (loss) from discontinued operations, net of income taxes $ (17,813) $ 544 $ (13,155) $ (296) Discontinued operations | Software Integrity business Â Â Â Â Disposal Groups, Including Discontinued Operations [Line Items] Â Â Â Â Revenue 127,917 132,898 392,579 392,860 Cost of revenue 40,279 47,050 136,010 145,188 Operating expenses 91,854 90,450 262,745 258,008 Interest and other income (expense), net 605 324 1,601 722 Income (loss) from discontinued operations before income taxes (3,611) (4,278) (4,575) (9,614) Income tax provisions (benefits) 14,202 (4,822) 8,580 (9,318) Income (loss) from discontinued operations, net of income taxes $ (17,813) $ 544 $ (13,155) $ (296) X - DefinitionDisposal Group, Including Discontinued Operation, Interest And Other Income Expense, Net + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationInterestAndOtherIncomeExpenseNet Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount before tax of income (loss) from a discontinued operation. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_DiscontinuedOperationIncomeLossFromDiscontinuedOperationBeforeIncomeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of tax expense (benefit) related to a discontinued operation. Includes, but is not limited to, tax expense (benefit) related to income (loss) from operations during the phase-out period, tax expense (benefit) related to gain (loss) on disposal, tax expense (benefit) related to gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and tax expense (benefit) related to adjustments of a prior period gain (loss) on disposal. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1 + Details Name: us-gaap_DiscontinuedOperationTaxEffectOfDiscontinuedOperation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of costs of goods sold attributable to disposal group, including, but not limited to, discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationCostsOfGoodsSold Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of operating expense attributable to disposal group, including, but not limited to, discontinued operation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationOperatingExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of revenue attributable to disposal group, including, but not limited to, discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationRevenue

Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax of income (loss) from a discontinued operation including the portion attributable to the noncontrolling interest. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477349/740-270-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsHeldForSaleOrDisposedOfBySaleMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=snps_SoftwareIntegrityBusinessMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 60 R49.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations - Schedule of Assets and Liabilities Classified as Discontinued Operations (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Assets: Â Â Total current assets held for sale $ 1,027,702 $ 114,654 Total long-term assets held for sale 0 908,759 Liabilities: Â Â Total current liabilities held for sale 331,294 286,244 Total long-term liabilities held for sale 0 33,257 Discontinued operations | Software Integrity business Â Â Assets: Â Â Cash and cash equivalents 17,441 4,947 Accounts receivable, net 78,930 90,307 Prepaid and other current assets 48,550 19,400 Property and equipment, net 6,373 Â Operating lease right-of use assets, net 6,646 Â Goodwill 724,294 Â Intangible assets, net 119,141 Â Deferred income taxes 26,327 Â Total current assets held for sale 1,027,702 114,654 Property and equipment, net Â 7,424 Operating lease right-of use assets, net Â 8,906 Goodwill Â 724,271 Intangible assets, net Â 134,617 Deferred income taxes Â 7,388 Other long-term assets Â 26,153 Total long-term assets held for sale Â 908,759 Liabilities: Â Â Accounts payable and accrued liabilities 91,874 63,847 Operating lease liabilities 5,626 5,858 Deferred revenue 233,794 216,539 Total current liabilities held for sale $ 331,294 286,244 Long-term operating lease liabilities Â 4,349 Long-term deferred revenue Â 24,301 Other long-term liabilities Â 4,607 Total long-term liabilities held for sale Â $ 33,257 X - DefinitionDisposal Group, Including Discontinued Operation, Deferred Income Taxes, Current + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationDeferredIncomeTaxesCurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Operating Lease Liabilities, Current + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseLiabilitiesCurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Operating Lease Liabilities, Noncurrent + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseLiabilitiesNoncurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Current + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseRightOfUseAssetsNetCurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDisposal Group, Including Discontinued Operation, Operating Lease Right of Use Assets Net, Noncurrent + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseRightOfUseAssetsNetNoncurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as accounts, notes and loans receivable attributable to disposal group held for sale or disposed of. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsNotesAndLoansReceivableNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as accounts payable and accrued liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as cash and cash equivalents attributable to disposal group held for sale or disposed of. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationCashAndCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as deferred revenue attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationDeferredRevenueCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as deferred revenue attributable to disposal group held for sale or disposed of, expected to be disposed of beyond one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationDeferredRevenueNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as deferred tax assets attributable to disposal group held for sale or disposed of. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationDeferredTaxAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as goodwill attributable to disposal group held for sale or disposed of. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationGoodwill1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as goodwill attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name

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DefinitionAmount classified as intangible assets, excluding goodwill, attributable to disposal group held for sale or disposed of. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as intangible assets, excluding goodwill, attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationIntangibleAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as other assets attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationOtherNoncurrentAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as other liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of beyond one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationOtherNoncurrentLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as prepaid and other assets attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationPrepaidAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as property, plant and equipment attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationPropertyPlantAndEquipmentCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount classified as property, plant and equipment attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationPropertyPlantAndEquipmentNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of beyond one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11 + Details Name: us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsHeldForSaleOrDisposedOfBySaleMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=snps_SoftwareIntegrityBusinessMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 61 R50.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Discontinued Operations - Schedule of Significant Non-cash Items and Capital Expenditures of Discontinued Operations (Details) - Discontinued operations - Software Integrity business - USD ($) $ in Thousands 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Disposal Groups, Including Discontinued Operations [Line Items] Â Â Amortization and depreciation $ 16,317 $ 37,495 Reduction of operating lease right-of-use assets 2,162 3,481 Amortization of capitalized costs to obtain revenue contracts 20,808 21,398 Stock-based compensation 47,476 37,495 Deferred income taxes 18,939 7,388 Purchases of property and equipment $ 972 $ 2,351 X - DefinitionDisposal Group, Including Discontinued Operation, Capitalized Contract Cost, Amortization + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationCapitalizedContractCostAmortization Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDisposal Group, Including Discontinued Operation, Deferred Income Tax Expense (Benefit) + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationDeferredIncomeTaxExpenseBenefit Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDisposal Group, Including Discontinued Operation, Operating Lease, Right-of-Use Asset, Periodic Reduction + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseRightOfUseAssetPeriodicReduction Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDisposal Group, Including Discontinued Operation, Payments to Acquire Property, Plant, and Equipment + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationPaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionDisposal Group, Including Discontinued Operation, Share-Based Payment Arrangement, Noncash Expense + ReferencesNo definition available. + Details Name: snps_DisposalGroupIncludingDiscontinuedOperationShareBasedPaymentArrangementNoncashExpense Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of depreciation and amortization expense attributable to disposal group, including, but not limited to, discontinued operation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B + Details Name: us-gaap_DisposalGroupIncludingDiscontinuedOperationDepreciationAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsHeldForSaleOrDisposedOfBySaleMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=snps_SoftwareIntegrityBusinessMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 62 R51.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pending Acquisition of Ansys (Details) $ / shares in Units, $ in Millions Jun. 30, 2025 USD ($) $ / shares Jul. 31, 2024 USD ($) Feb. 13, 2024 USD ($) Bridge Commitment | Bridge Loan | Line of Credit Â Â Â Business Acquisition [Line Items] Â Â Â Credit facility maximum borrowing capacity Â Â $ 11,700.0 $ 11,700.0 Term Loan Agreement | Line of Credit Â Â Â Business Acquisition [Line Items] Â Â Â Credit facility maximum borrowing capacity Â Â $ 4,300.0 ANSYS, Inc. | Forecast Â Â Â Business Acquisition [Line Items] Â Â Â Consideration transferred $ 35,000.0 Â Â Business acquisition, exchange ratio 0.3450 Â Â Business acquisition, share price | $ / shares $ 197.00 Â Â Business acquisition, maximum stock to be issued as a percentage of stock issued and outstanding 19.9999% Â Â Termination fee payable $ 1,500.0 Â Â Termination fee receivable $ 950.0 Â Â X - DefinitionBusiness Acquisition, Contract Termination Fee Payable + ReferencesNo definition available. + Details Name:

snps_BusinessAcquisitionContractTerminationFeePayable Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionBusiness Acquisition, Contract Termination Fee Receivable + ReferencesNo definition available. + Details Name: snps_BusinessAcquisitionContractTerminationFeeReceivable Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionBusiness Acquisition, Exchange Ratio + ReferencesNo definition available. + Details Name: snps_BusinessAcquisitionExchangeRatio Namespace Prefix: snps_ Data Type: xbrli:pureItemType Balance Type: na Period Type: instant X - DefinitionBusiness Acquisition, Maximum Stock To Be Issued As Percentage Of Stock Issued And Outstanding + ReferencesNo definition available. + Details Name: snps_BusinessAcquisitionMaximumStockToBeIssuedAsPercentageOfStockIssuedAndOutstanding Namespace Prefix: snps_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5 + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPrice of a single share of a number of saleable stocks paid or offered to be paid in a business combination. + ReferencesNo definition available. + Details Name: us-gaap_BusinessAcquisitionSharePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionAmount of consideration transferred, consisting of acquisition-date fair value of assets transferred by the acquirer, liabilities incurred by the acquirer, and equity interest issued by the acquirer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 8 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 7 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-7 + Details Name: us-gaap_BusinessCombinationConsiderationTransferred1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionMaximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_DebtInstrumentAxis=snps_BridgeCommitmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_CreditFacilityAxis=us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_LongtermDebtTypeAxis=us-gaap_LineOfCreditMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_TermLoanAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BusinessAcquisitionAxis=snps_ANSYSIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 63 R52.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Business Combinations (Details) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 USD ($) Jul. 31, 2023 USD ($) Jul. 31, 2024 USD ($) acquisition Jul. 31, 2023 USD ($) Oct. 31, 2023 USD ($) Business Acquisition [Line Items] Â Â Â Â Â Number of acquisitions | acquisition Â Â 3 Â Â Goodwill $ 3,444,349 Â $ 3,444,349 Â $ 3,346,065 Transaction costs 53,000 $ 4,800 110,200 $ 9,800 Â Series of Individually Immaterial Business Acquisitions Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Consideration transferred Â Â 159,300 Â Â Intangible assets 78,900 Â 78,900 Â Â Goodwill 97,500 Â 97,500 Â Â Net tangible liabilities 17,100 Â 17,100 Â Â Goodwill, expected tax deductible amount 0 Â 0 Â Â Series of Individually Immaterial Business Acquisitions | Design Automation reporting unit Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Goodwill 62,700 Â 62,700 Â Â Series of Individually Immaterial Business Acquisitions | Design IP reporting unit Â Â Â Â Â Business Acquisition [Line Items] Â Â Â Â Â Goodwill $ 34,800 Â $ 34,800 Â Â X - DefinitionBusiness Combination Recognized Identifiable Assets Acquired And Liabilities Assumed Other Tangible Liabilities Net + ReferencesNo definition available. + Details Name: snps_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedOtherTangibleLiabilitiesNet Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5 + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of goodwill arising from a business combination that is expected to be deductible for tax purposes. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 30 -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1 + Details Name: us-gaap_BusinessAcquisitionPurchasePriceAllocationGoodwillExpectedTaxDeductibleAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThis element represents acquisition-related costs incurred to effect a business combination which costs have been expensed during the period. Such costs include finder's fees; advisory, legal, accounting, valuation, and other professional or consulting fees; general administrative costs, including the costs of maintaining an internal acquisitions department; and may include costs of registering and issuing debt and equity securities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 25 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479405/805-10-25-23 + Details Name: us-gaap_BusinessCombinationAcquisitionRelatedCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of consideration transferred, consisting of acquisition-date fair value of assets transferred by the acquirer, liabilities incurred by the acquirer, and equity interest issued by the acquirer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 8 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 30 -Paragraph 7 -SubTopic 30 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479637/805-30-30-7 + Details Name: us-gaap_BusinessCombinationConsiderationTransferred1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe amount of identifiable intangible assets recognized as of the acquisition date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 55 -Paragraph 37 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479303/805-10-55-37Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 20 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-1 + Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedIntangibles Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe number of businesses acquired by the entity during the period. + ReferencesNo definition available. + Details Name: us-gaap_NumberOfBusinessesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_BusinessAcquisitionAxis=us-gaap_SeriesOfIndividuallyImmaterialBusinessAcquisitionsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ReportingUnitAxis=snps_DesignAutomationReportingUnitMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ReportingUnitAxis=snps_DesignIPReportingUnitMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 64 R53.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Schedule of Disaggregation of Revenue (Details) - Product Concentration Risk - Revenue 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Disaggregation of Revenue [Line Items] Â Â Â Â Revenue percentage by product group 100.00% 100.00% 100.00% 100.00% EDA Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue percentage by product group 66.90% 71.80% 66.80% 71.30% Design IP Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue percentage by product group 30.40% 25.90% 30.90% 26.70% Other Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Revenue percentage by product group 2.70% 2.30% 2.30% 2.00% X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20 + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_ProductConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_SalesRevenueNetMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=snps_ElectronicDesignAutomationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=snps_DesignIPMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=snps_OtherProductAndServiceMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 65 R54.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Schedule of Contract Assets and Liabilities (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Revenue from Contract with Customer [Abstract] Â Â Contract assets, net $ 693,874 $ 375,904 Unbilled receivables 33,603 60,016 Deferred revenue $ 1,675,884 $ 1,710,288 X - DefinitionAmount, after allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8 + Details Name: us-gaap_ContractWithCustomerAssetNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionUnbilled amounts due for services rendered or to be rendered, actions taken or to be taken, or a promise to refrain from taking certain actions in accordance with the terms of a legally binding

agreement between the entity and, at a minimum, one other party. An example would be amounts associated with contracts or programs where the recognized revenue for performance thereunder exceeds the amounts billed under the terms thereof as of the date of the balance sheet. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-2 + Details Name: us-gaap_UnbilledContractsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 66 R55.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Additional Information (Details) - USD ($) $ in Millions 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Â Â Â Â Contract with customer, liability, revenue recognized $ 216.8 Â $ 1,300.0 Â Revenue, remaining performance obligation, amount 7,900.0 Â 7,900.0 Â Revenue, remaining performance obligation, non-cancellable, amount $ 1,200.0 Â $ 1,200.0 Â Revenue, remaining performance obligation, percentage 40.00% Â 40.00% Â Capitalized contract cost, net $ 70.5 Â $ 70.5 Â Amortization of capitalized costs to obtain revenue contracts $ 12.6 $ 14.0 $ 36.3 $ 40.3 Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-08-01 Â Â Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Â Â Â Â Revenue, remaining performance obligation, expected timing of satisfaction, period 12 months Â 12 months Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-08-01 Â Â Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Â Â Â Â Revenue, remaining performance obligation, expected timing of satisfaction, period 3 years Â 3 years Â Sales Based Royalties Â Â Â Â Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Â Â Â Â Contract with customer, liability, revenue recognized $ 21.1 $ 24.2 $ 73.9 $ 75.8 X - DefinitionRevenue, Remaining Performance Obligation, Non-Cancellable, Amount + ReferencesNo definition available. + Details Name: snps_RevenueRemainingPerformanceObligationNonCancellableAmount Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of amortization expense for asset recognized from cost incurred to obtain or fulfill contract with customer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479483/340-40-50-3 + Details Name: us-gaap_CapitalizedContractCostAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, after accumulated amortization and accumulated impairment loss, of asset recognized from cost incurred to obtain or fulfill contract with customer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479483/340-40-50-3 + Details Name: us-gaap_CapitalizedContractCostNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8 + Details Name: us-gaap_ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of transaction price allocated to performance obligation that has not been recognized as revenue. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPeriod in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionPercentage of remaining performance obligation to total remaining performance obligation not recognized as revenue. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2024-08-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2025-08-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=snps_SalesBasedRoyaltiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 67 R56.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets - Changes of Goodwill (Details) $ in Thousands 9 Months Ended Jul. 31, 2024 USD ($) Goodwill [Roll Forward] Â Beginning balance $ 3,346,065 Additions 97,521 Adjustments 173 Effect of foreign currency translation 590 Ending balance $ 3,444,349 X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of foreign currency translation gain (loss) which increases (decreases) asset representing future economic benefit from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1 + Details Name: us-gaap_GoodwillForeignCurrencyTranslationGainLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1 + Details Name: us-gaap_GoodwillPeriodIncreaseDecrease Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) from measurement period adjustment of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 25 -Paragraph 16 -SubTopic 10 -Topic 805 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479405/805-10-25-16 + Details Name: us-gaap_GoodwillPurchaseAccountingAdjustments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_GoodwillRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 68 R57.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets - Summary of Intangible Assets (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount $ 1,407,803 $ 1,378,798 Accumulated Amortization 1,141,711 1,139,221 Total 266,092 239,577 Core/developed technology Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount 904,381 842,448 Accumulated Amortization 711,119 672,480 Total 193,262 169,968 Customer relationships Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount 314,154 296,883 Accumulated Amortization 242,955 231,557 Total 71,199 65,326 Contract rights intangible Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount 176,343 175,747 Accumulated Amortization 174,724 171,487 Total 1,619 4,260 Trademarks and trade names Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount 12,925 12,925 Accumulated Amortization 12,913 12,902 Total $ 12 23 Capitalized software development costs Â Â Finite-Lived Intangible Assets [Line Items] Â Â Gross Carrying Amount Â 50,795 Accumulated Amortization Â 50,795 Total Â $ 0 X - DefinitionAccumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 928 -SubTopic 340 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478859/928-340-50-1 + Details Name: us-gaap_FiniteLivedIntangibleAssetsGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5 + Details Name: us-gaap_FiniteLivedIntangibleAssetsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=snps_DevelopedAndCoreTechnologyMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_CustomerRelationshipsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_ContractualRightsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TrademarksAndTradeNamesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=snps_CapitalizedSoftwareDevelopmentCostsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 69 R58.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets - Amortization Expense Related to Intangible Assets (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets $ 18,572 $ 13,565 $ 53,317 $ 40,258 Core/developed technology Â Â Â Â Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets 13,447 10,436 38,373 31,427 Customer relationships Â Â Â Â Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets 4,058 2,011 11,467 5,945 Contract rights intangible Â Â Â Â Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets 1,063 558 3,465 1,257 Trademarks and trade names Â Â Â Â Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets 4 3 12 3 Capitalized software development costs Â Â Â Â Finite Lived Intangible Assets Amortization Expense [Line Items] Â Â Â Â Amortization expense of intangible assets $ 0 $ 557 $ 0 $ 1,626 X

- DefinitionFinite Lived Intangible Assets Amortization Expense [Line Items] + ReferencesNo definition available. + Details Name: snps_FiniteLivedIntangibleAssetsAmortizationExpenseLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=snps_DevelopedAndCoreTechnologyMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_CustomerRelationshipsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_ContractualRightsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TrademarksAndTradeNamesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=snps_CapitalizedSoftwareDevelopmentCostsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 70 R59.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill and Intangible Assets - Estimated Future Amortization of Intangible Assets (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity [Abstract] Â Â Remainder of fiscal 2024 $ 17,344 Â 2025 62,103 Â 2026 51,778 Â 2027 46,831 Â 2028 32,099 Â 2029 and thereafter 55,937 Â Total $ 266,092 $ 239,577 X - DefinitionFinite-Lived Intangible Asset, Expected Amortization, After Year Four + ReferencesNo definition available. + Details Name: snps_FiniteLivedIntangibleAssetExpectedAmortizationAfterYearFour Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 71 R60.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheet Components (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Other long-term assets: Â Â Deferred compensation plan assets $ 373,306 $ 297,180 Capitalized commission, net 70,532 67,240 Other 135,935 80,400 Total 579,773 444,820 Accounts payable and accrued liabilities: Â Â Payroll and related benefits 530,948 531,848 Accrued income taxes 3,172 226,762 Other accrued liabilities 144,316 146,696 Accounts payable 78,547 154,608 Total 756,983 1,059,914 Other long-term liabilities: Â Â Deferred compensation plan liabilities 373,306 297,180 Other 91,927 84,351 Total $ 465,233 $ 381,531 X - DefinitionCapitalized Commission, Noncurrent + ReferencesNo definition available. + Details Name: snps_CapitalizedCommissionNoncurrent Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying values as of the balance sheet date of obligations incurred through that date and due within one year (or the operating cycle, if longer), including liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received, taxes, interest, rent and utilities, accrued salaries and bonuses, payroll taxes and fringe benefits. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying amount as of the balance sheet date of the unpaid sum of the known and estimated amounts payable to satisfy all currently due domestic and foreign income tax obligations. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_AccruedIncomeTaxesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate carrying value as of the balance sheet date of the liabilities for all deferred compensation arrangements payable beyond one year (or the operating cycle, if longer). + ReferencesNo definition available. + Details Name: us-gaap_DeferredCompensationLiabilityClassifiedNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying amount as of the balance sheet date of assets held under deferred compensation agreements. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_DeferredCompensationPlanAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionTotal of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of expenses incurred but not yet paid classified as other, due within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of other miscellaneous assets expected to be realized or consumed after one year or normal operating cycle, if longer. + ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsMiscellaneousNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OtherAssetsNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of liabilities classified as other, due after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OtherLiabilitiesNoncurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionObligations not otherwise itemized or categorized in the footnotes to the financial statements that are expected to be paid after one year (or the normal operating cycle, if longer), from the balance sheet date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_OtherSundryLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 72 R61.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Cash Equivalents and Short-Term Investments (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Cash Equivalents and Short-term Investments [Line Items] Â Â Total $ 153,754 $ 152,725 Gross Unrealized Gains 753 34 Gross Unrealized Losses Less Than 12 Continuous Months (15) (609) Gross Unrealized Losses 12 Continuous Months or Longer (61) (511) Estimated fair value 154,431 151,639 Cash equivalents Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 51,982 13,123 Gross Unrealized Gains 1 0 Gross Unrealized Losses Less Than 12 Continuous Months 0 0 Gross Unrealized Losses 12 Continuous Months or Longer 0 0 Estimated fair value 51,983 13,123 Cash equivalents | Money market funds Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 44,537 10,129 Gross Unrealized Gains 0 0 Gross Unrealized Losses Less Than 12 Continuous Months 0 0 Gross Unrealized Losses 12 Continuous Months or Longer 0 0 Estimated fair value 44,537 10,129 Cash equivalents | U.S. Treasury, agency & T-bills Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 7,445 2,994 Gross Unrealized Gains 1 0 Gross Unrealized Losses Less Than 12 Continuous Months 0 0 Gross Unrealized Losses 12 Continuous Months or Longer 0 0 Estimated fair value 7,446 2,994 Short-term Investments | U.S. Treasury, agency & T-bills Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 18,250 15,752 Gross Unrealized Gains 61 0 Gross Unrealized Losses Less Than 12 Continuous Months 0 (61) Gross Unrealized Losses 12 Continuous Months or Longer (9) (2) Estimated fair value 18,302 15,689 Short-term Investments | Municipal bonds Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total Â 515 Gross Unrealized Gains Â 0 Gross Unrealized Losses Less Than 12 Continuous Months Â 0 Gross Unrealized Losses 12 Continuous Months or Longer Â (16) Estimated fair value Â 499 Short-term Investments | Corporate debt securities Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 104,267 103,213 Gross Unrealized Gains 528 13 Gross Unrealized Losses Less Than 12 Continuous Months (13) (455) Gross Unrealized Losses 12 Continuous Months or Longer (24) (396) Estimated fair value 104,758 102,375 Short-term Investments | Asset-backed securities Â Â Cash Equivalents and Short-term Investments [Line Items] Â Â Total 31,237 33,245 Gross Unrealized Gains 164

21 Gross Unrealized Losses Less Than 12 Continuous Months (2) (93) Gross Unrealized Losses 12 Continuous Months or Longer (28) (97) Estimated fair value $ 31,371 $ 33,076 X - DefinitionAmount, before tax, of unrealized gain in accumulated other comprehensive income (AOCI) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAccumulatedGrossUnrealizedGainBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (aa) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481830/320-10-45-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated unrealized loss on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), in continuous unrealized loss position for 12 months or longer, without allowance for credit loss. Includes beneficial interest in securitized financial asset. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-7Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479106/326-30-50-5 + Details Name: us-gaap_DebtSecuritiesAvailableForSaleContinuousUnrealizedLossPosition12MonthsOrLongerAccumulatedLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated unrealized loss on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), in continuous unrealized loss position for less than 12 months, without allowance for credit loss. Includes beneficial interest in securitized financial asset. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-7Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479106/326-30-50-5 + Details Name: us-gaap_DebtSecuritiesAvailableForSaleContinuousUnrealizedLossPositionLessThan12MonthsAccumulatedLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (aa) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (aaa) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3 + Details Name: us-gaap_ScheduleOfAvailableForSaleSecuritiesLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_CashEquivalentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_MoneyMarketFundsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=snps_USGovernmentAgenciesDebtSecuritiesAndUSTreasuryBillSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_ShortTermInvestmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_MunicipalBondsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_CorporateDebtSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_AssetBackedSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 73 R62.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Schedule of Maturity for Short-Term Available for Sale Securities (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Amortized Cost Â Â less than 1 year $ 61,373 Â 1-5 years 87,412 Â 5-10 years 3,066 Â >10 years 1,903 Â Total 153,754 $ 152,725 Fair Value Â Â less than 1 year 61,426 Â 1-5 years 88,022 Â 5-10 years 3,084 Â >10 years 1,899 Â Total $ 154,431 $ 151,639 X - DefinitionDebt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year Five + ReferencesNo definition available. + Details Name: snps_DebtSecuritiesAvailableForSaleAmortizedCostMaturityAllocatedAndSingleMaturityDateAfterYearFive Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionDebt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year Five + ReferencesNo definition available. + Details Name: snps_DebtSecuritiesAvailableForSaleFairValueMaturityAllocatedAndSingleMaturityDateAfterYearFive Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in second through fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterOneThroughFiveYearsAmortizedCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in second through fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 320 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterOneThroughFiveYearsFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing after tenth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsAmortizedCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing after tenth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 320 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAmortizedCostBasisAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearAmortizedCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 320 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A + Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic

820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (aa) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481830/320-10-45-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 74 R63.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Schedule of Cash, Cash Equivalents and Restricted Cash (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Jul. 31, 2023 Oct. 31, 2022 Financial Assets And Liabilities [Abstract] Â Â Â Â Cash and cash equivalents $ 1,839,815 $ 1,433,966 Â Â Restricted cash included in prepaid and other current assets 1,536 1,549 Â Â Restricted cash included in other long-term assets 694 725 Â Â Cash, cash equivalents and restricted cash 1,842,045 1,436,240 $ 1,683,109 Â Cash, cash equivalents and restricted cash from discontinued operations 17,441 4,947 4,835 Â Total cash, cash equivalents and restricted cash, including cash from discontinued operations $ 1,859,486 $ 1,441,187 $ 1,687,944 $ 1,419,864 X - DefinitionFinancial Assets and Liabilities [Abstract] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; attributable to disposal group, including, but not limited to, discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsDisposalGroupIncludingDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash restricted as to withdrawal or usage, classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8 + Details Name: us-gaap_RestrictedCashCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash restricted as to withdrawal or usage, classified as noncurrent. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 210 -Topic 954 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477220/954-210-45-5Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8 + Details Name: us-gaap_RestrictedCashNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 75 R64.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Additional Information (Details) - USD ($) $ in Thousands 1 Months Ended 3 Months Ended 9 Months Ended Nov. 30, 2023 Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Financial Assets and Liabilities [Line Items] Â Â Â Â Â Gain on sale of strategic investments $ 55,100 $ 0 $ 0 $ 55,077 $ 0 Shipments period using hedges (in months) Â Â Â 1 month Â Period for hedge balance in OCI to be reclassified to statement of operations (in months) Â Â Â 12 months Â FairÂ valuesÂ of derivativeÂ instruments not designated as hedging instruments Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Forward contracts terms (in months) Â Â Â 1 month Â ForeignÂ currencyÂ derivativeÂ contracts | Minimum Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Derivative maturity period Â Â Â 2 months Â ForeignÂ currencyÂ derivativeÂ contracts | Maximum Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Derivative maturity period Â Â Â 29 months Â ForeignÂ currencyÂ derivativeÂ contracts | Cash Flow Hedging | Maximum Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Derivative maturity period Â Â Â 3 years Â Foreign Exchange Forward | Cash Flow Hedging | Maximum Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Derivative maturity period Â Â Â 29 months Â Foreign Exchange Contracts | FairÂ valuesÂ of derivativeÂ instruments not designated as hedging instruments | Maximum Â Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â Â Non-designated foreign exchange forward contract remaining maturity Â 1 year Â 1 year Â X - DefinitionDerivative, Maximum Shipment Period For Entry Into Foreign Currency Forward Contract + ReferencesNo definition available. + Details Name: snps_DerivativeMaximumShipmentPeriodForEntryIntoForeignCurrencyForwardContract Namespace Prefix: snps_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionFinancial Assets and Liabilities [Line Items] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEstimated period for the anticipated transfer of gain (loss), net, from accumulated other comprehensive income into earnings, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_DerivativeInstrumentsGainLossReclassificationFromAccumulatedOCIToIncomeEstimateOfTimeToTransfer1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionPeriod remaining until the derivative contract matures, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_DerivativeRemainingMaturity1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - DefinitionPeriod the derivative contract is outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_DerivativeTermOfContract Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionThe net realized gain (loss) on investments sold during the period, not including gains (losses) on securities separately or otherwise categorized as trading, available-for-sale, or held-to-maturity, which, for cash flow reporting, is a component of proceeds from investing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionMaximum period of hedging exposure to variability in future cash flows for forecasted transaction of foreign currency cash flow hedge, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Excludes forecasted transaction for payment of variable interest on existing financial instrument. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 30 -Topic 815 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480870/815-30-50-1 + Details Name: us-gaap_MaximumLengthOfTimeForeignCurrencyCashFlowHedge Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_HedgingDesignationAxis=us-gaap_NondesignatedMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForwardContractsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DerivativeInstrumentsGainLossByHedgingRelationshipAxis=us-gaap_CashFlowHedgingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForeignExchangeForwardMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForeignExchangeContractMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 76 R65.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Effects on Changes in Fair Values of Non-Designated Forward Contracts (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Financial Assets And Liabilities [Abstract] Â Â Â Â Gains (losses) recorded in Interest and other income (expense), net $ 955 $ (1,205) $ (110) $ 3,532 X - DefinitionFinancial Assets and Liabilities [Abstract] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of gain (loss) recognized in earnings in the period from the increase (decrease) in fair value of foreign currency derivatives not designated as hedging instruments. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4C -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4CReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 815 -SubTopic 10 -Section 50 -Paragraph 4A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4A + Details Name: us-gaap_GainLossOnForeignCurrencyDerivativeInstrumentsNotDesignatedAsHedgingInstruments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 77 R66.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Notional Amounts of Derivative Instruments (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Financial Assets And Liabilities [Abstract] Â Â Total gross notional amounts $ 1,816,755 $ 1,666,758 Net fair value $ 5,768 $ (2,308) X - DefinitionFinancial Assets and Liabilities [Abstract] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFair value of the assets less the liabilities of a derivative or group of derivatives. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-10 + Details Name: us-gaap_DerivativeFairValueOfDerivativeNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionNominal or face amount used to calculate payment on derivative. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1BReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-1A + Details Name: us-gaap_DerivativeNotionalAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: instant XML 78 R67.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Fair Values of Derivative Instrument Designated and Non-Designated as Hedging Instruments in Unaudited Condensed Consolidated Balance Sheet (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 FairÂ valuesÂ of derivativeÂ instruments designatedÂ asÂ hedging instruments | Other current assets Â Â Financial Assets and Liabilities [Line Items] Â Â Fair values of derivative instruments, assets $ 13,655 $ 12,962 FairÂ valuesÂ of derivativeÂ instruments designatedÂ asÂ hedging instruments | Accrued liabilities Â Â Financial Assets and Liabilities [Line Items] Â Â Fair values of derivative instruments, liabilities 7,498 14,665 FairÂ valuesÂ of derivativeÂ instruments not designated as hedging instruments | Other current assets Â Â Financial Assets and Liabilities [Line Items] Â Â Fair values of derivative instruments, assets 820 491 FairÂ valuesÂ of derivativeÂ instruments not designated as hedging instruments | Accrued liabilities Â Â Financial Assets and Liabilities [Line Items] Â Â Fair values of derivative instruments, liabilities $ 1,209 $ 1,096 X - DefinitionFinancial Assets and Liabilities [Line Items] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFair value, before effects of master netting arrangements, of a financial asset or other contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset. Includes assets elected not to be offset. Excludes assets not subject to a master netting arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -

Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4BReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483444/210-20-55-22Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483466/210-20-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483444/210-20-55-7Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 4D -Subparagraph (c)(2) -SubTopic 20 -Topic 860 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481326/860-20-50-4D + Details Name: us-gaap_DerivativeFairValueOfDerivativeAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value, before effects of master netting arrangements, of a financial liability or contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset. Includes liabilities elected not to be offset. Excludes liabilities not subject to a master netting arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4BReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483444/210-20-55-22Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483466/210-20-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483444/210-20-55-7Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 4D -Subparagraph (c)(2) -SubTopic 20 -Topic 860 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481326/860-20-50-4D + Details Name: us-gaap_DerivativeFairValueOfDerivativeLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_HedgingDesignationAxis=us-gaap_DesignatedAsHedgingInstrumentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_OtherAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_AccruedLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_HedgingDesignationAxis=us-gaap_NondesignatedMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 79 R68.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Financial Assets and Liabilities - Unaudited Condensed Consolidated Statement of Operations Location and Amount of Gains and Losses on Derivative Instrument Fair Values for Designated Hedge Instruments, Net of Tax (Details) - Foreign Exchange Contracts - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Financial Assets and Liabilities [Line Items] Â Â Â Â AmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ on derivatives (effective portion) $ 4,181 $ 5,907 $ 7,656 $ 43,489 AmountÂ of gainsÂ (losses) reclassifiedÂ from OCI (effectiveÂ portion) 2,078 (5,250) (2,356) (22,881) Revenue Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â AmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ on derivatives (effective portion) 4,501 899 1,936 7,315 AmountÂ of gainsÂ (losses) reclassifiedÂ from OCI (effectiveÂ portion) 2,689 (1,352) (1,593) (10,856) Operating expenses Â Â Â Â Financial Assets and Liabilities [Line Items] Â Â Â Â AmountÂ ofÂ gainsÂ (losses) recognizedÂ inÂ OCIÂ on derivatives (effective portion) (320) 5,008 5,720 36,174 AmountÂ of gainsÂ (losses) reclassifiedÂ from OCI (effectiveÂ portion) $ (611) $ (3,898) $ (763) $ (12,025) X - DefinitionFinancial Assets and Liabilities [Line Items] + ReferencesNo definition available. + Details Name: snps_FinancialAssetsAndLiabilitiesLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, before tax and reclassification, of gain (loss) from derivative instrument designated and qualifying cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4CReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480627/815-20-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossBeforeReclassificationAndTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, before tax, of reclassification of gain (loss) from accumulated other comprehensive income (AOCI) for derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-15Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 4C -Subparagraph (c) -SubTopic 10 -Topic 815 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480434/815-10-50-4C + Details Name: us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossReclassificationBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForeignExchangeContractMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=snps_RevenueFromContractWithCustomerExcludingAssessedTaxMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_OperatingExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 80 R69.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements (Details) - Fair Value, Measurements, Recurring - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Total assets $ 594,195 $ 475,395 Total liabilities 382,013 312,941 DeferredÂ compensationÂ plan liabilities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term liabilities 373,306 297,180 ForeignÂ currencyÂ derivativeÂ contracts Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Prepaid and other current assets 14,475 13,453 Accounts payable and accrued liabilities 8,707 15,761 Cash equivalents | Money market funds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 44,537 10,129 Cash equivalents | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 7,446 2,994 Short-term Investments | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 18,302 15,689 Short-term Investments | Municipal bonds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments Â 499 Short-term Investments | Corporate debt securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 104,758 102,375 Short-term Investments | Asset-backed securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 31,371 33,076 DeferredÂ compensationÂ planÂ assets Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term assets 373,306 297,180 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Total assets 417,843 307,309 Total liabilities 373,306 297,180 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | DeferredÂ compensationÂ plan liabilities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term liabilities 373,306 297,180 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | ForeignÂ currencyÂ derivativeÂ contracts Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Prepaid and other current assets 0 0 Accounts payable and accrued liabilities 0 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Cash equivalents | Money market funds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 44,537 10,129 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Cash equivalents | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 0 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Short-term Investments | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Short-term Investments | Municipal bonds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments Â 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Short-term Investments | Corporate debt securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | Short-term Investments | Asset-backed securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 QuotedÂ PricesÂ inÂ Active Markets forÂ IdenticalÂ Assets (LevelÂ 1) | DeferredÂ compensationÂ planÂ assets Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term assets 373,306 297,180 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Total assets 176,352 168,086 Total liabilities 8,707 15,761 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | DeferredÂ compensationÂ plan liabilities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term liabilities 0 0 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | ForeignÂ currencyÂ derivativeÂ contracts Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Prepaid and other current assets 14,475 13,453 Accounts payable and accrued liabilities 8,707 15,761 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Cash equivalents | Money market funds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 0 0 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Cash equivalents | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 7,446 2,994 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Short-term Investments | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 18,302 15,689 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Short-term Investments | Municipal bonds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments Â 499 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Short-term Investments | Corporate debt securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 104,758 102,375 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | Short-term Investments | Asset-backed securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 31,371 33,076 SignificantÂ Other ObservableÂ Inputs (LevelÂ 2) | DeferredÂ compensationÂ planÂ assets Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term assets 0 0 Significant Unobservable Â Inputs (LevelÂ 3) Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Total assets 0 0 Total liabilities 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | DeferredÂ compensationÂ plan liabilities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term liabilities 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | ForeignÂ currencyÂ derivativeÂ contracts Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Prepaid and other current assets 0 0 Accounts payable and accrued liabilities 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | Cash equivalents | Money market funds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | Cash equivalents | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Cash equivalents 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | Short-term Investments | U.S. Treasury, agency & T-bills Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | Short-term Investments | Municipal bonds Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments Â 0 Significant Unobservable Â Inputs (LevelÂ 3) | Short-term Investments | Corporate debt securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | Short-term Investments | Asset-backed securities Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Short-term investments 0 0 Significant Unobservable Â Inputs (LevelÂ 3) | DeferredÂ compensationÂ planÂ assets Â Â Fair Value, Balance Sheet Grouping, Financial Statement Captions [Line Items] Â Â Other long-term assets $ 0 $ 0 X - DefinitionFair value portion of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_AssetsFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value portion of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_CashAndCashEquivalentsFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_FairValueBalanceSheetGroupingFinancialStatementCaptionsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFair value portion of asset contracts related to the exchange of different currencies, including, but not limited to, foreign currency options, forward contracts, and swaps. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_ForeignCurrencyContractAssetFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value portion of liability contracts related to the exchange of different currencies, including, but not limited to, foreign currency options, forward (delivery or nondelivery) contracts, and swaps entered into. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_ForeignCurrencyContractsLiabilityFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFair value

portion of investment securities, including, but not limited to, marketable securities, derivative financial instruments, and investments accounted for under the equity method. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_InvestmentsFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value of financial and nonfinancial obligations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_LiabilitiesFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionFair value portion of other assets. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_OtherAssetsFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionFair value portion of other liabilities. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_OtherLiabilitiesFairValueDisclosure Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_FairValueByMeasurementFrequencyAxis=us-gaap_FairValueMeasurementsRecurringMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByLiabilityClassAxis=us-gaap_OtherNoncurrentLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DerivativeInstrumentRiskAxis=us-gaap_ForwardContractsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_InvestmentTypeAxis=us-gaap_CashEquivalentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_MoneyMarketFundsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_USGovernmentAgenciesDebtSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_InvestmentTypeAxis=us-gaap_ShortTermInvestmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=snps_USGovernmentAgenciesDebtSecuritiesAndUSTreasuryBillSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_MunicipalBondsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_CorporateDebtSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByAssetClassAxis=us-gaap_AssetBackedSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_InvestmentTypeAxis=snps_DeferredCompensationPlanAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel1Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel2Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel3Member Namespace Prefix: Data Type: na Balance Type: Period Type: XML 81 R70.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Bridge Commitment Letter, Term Loan and Revolving Credit Facilities (Details) Â¥ in Millions, $ in Millions 1 Months Ended Jun. 30, 2025 May 14, 2024 Feb. 13, 2024 USD ($) Jul. 31, 2018 USD ($) Jul. 31, 2024 USD ($) Oct. 31, 2023 USD ($) Jul. 31, 2018 CNY (Â¥) Foreign Line of Credit Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â Â $ 33.0 Â Â Â Â¥ 220.0 Debt instrument, term Â Â Â 12 years Â Â Â Amount outstanding Â Â Â Â $ 15.6 Â Â Borrowings, interest rate Â Â Â 0.74% Â Â Â Bridge Commitment | Line of Credit | Bridge Loan Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â $ 11,700.0 Â 11,700.0 Â Â Term Loan Agreement | Line of Credit Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â 4,300.0 Â Â Â Â Term Loan Agreement | Line of Credit | Unsecured Debt Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â 4,300.0 Â Â Â Â Amount outstanding Â Â Â Â 0.0 Â Â Commitment fees percentage Â 0.10% Â Â Â Â Â Term Loan Agreement, Tranche One | Line of Credit | Unsecured Debt Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â $ 1,450.0 Â Â Â Â Debt instrument, term Â Â 2 years Â Â Â Â Term Loan Agreement, Tranche One | Line of Credit | Unsecured Debt | SOFR | Minimum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.875% Â Â Â Â Term Loan Agreement, Tranche One | Line of Credit | Unsecured Debt | SOFR | Maximum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 1.375% Â Â Â Â Term Loan Agreement, Tranche One | Line of Credit | Unsecured Debt | ABR | Minimum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.00% Â Â Â Â Term Loan Agreement, Tranche One | Line of Credit | Unsecured Debt | ABR | Maximum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.375% Â Â Â Â Â Term Loan Agreement, Tranche Two | Line of Credit | Unsecured Debt Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â $ 2,850.0 Â Â Â Â Debt instrument, term Â Â 3 years Â Â Â Â Term Loan Agreement, Tranche Two | Line of Credit | Unsecured Debt | SOFR | Minimum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 1.00% Â Â Â Â Term Loan Agreement, Tranche Two | Line of Credit | Unsecured Debt | SOFR | Maximum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Â Borrowings, interest rate Â Â 1.50% Â Â Â Â Term Loan Agreement, Tranche Two | Line of Credit | Unsecured Debt | ABR | Minimum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.00% Â Â Â Â Term Loan Agreement, Tranche Two | Line of Credit | Unsecured Debt | ABR | Maximum Â Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.50% Â Â Â Â Senior Unsecured Committed Multicurrency Revolving Credit Facility | Line of Credit | Revolving Credit Facility Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â $ 850.0 Â Â Â Â Unsecured Uncommitted Incremental Revolving Loan Facility | Line of Credit | Revolving Credit Facility Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Credit facility maximum borrowing capacity Â Â $ 150.0 Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Amount outstanding Â Â Â Â $ 0.0 $ 0.0 Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | Minimum Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Commitment fees percentage Â Â 0.09% Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | Minimum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Commitment fees percentage 0.08% Â Â Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | Maximum Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Commitment fees percentage Â Â 0.15% Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | Maximum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Commitment fees percentage 0.175% Â Â Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | SOFR | Minimum Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.785% Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | SOFR | Minimum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate 0.795% Â Â Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | SOFR | Maximum Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.975% Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | SOFR | Maximum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate 1.20% Â Â Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | ABR Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate Â Â 0.00% Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | ABR | Minimum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate 0.00% Â Â Â Â Â Revolving Credit Agreement | Line of Credit | Revolving Credit Facility | ABR | Maximum | Forecast Â Â Â Â Â Â Â Debt Instrument [Line Items] Â Â Â Â Â Â Â Borrowings, interest rate 0.20% Â Â Â Â Â Â X - DefinitionPercentage points added to the reference rate to compute the variable rate on the debt instrument. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentBasisSpreadOnVariableRate1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPeriod of time between issuance and maturity of debt instrument, in PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentTerm Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionThe carrying value as of the balance sheet date of the current and noncurrent portions of long-term obligations drawn from a line of credit, which is a bank's commitment to make loans up to a specific amount. Examples of items that might be included in the application of this element may consist of letters of credit, standby letters of credit, and revolving credit arrangements, under which borrowings can be made up to a maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and after the date of drawdowns on the line. Includes short-term obligations that would normally be classified as current liabilities but for which (a) postbalance sheet date issuance of a long term obligation to refinance the short term obligation on a long term basis, or (b) the enterprise has entered into a financing agreement that clearly permits the enterprise to refinance the short-term obligation on a long term basis and the following conditions are met (1) the agreement does not expire within 1 year and is not cancelable by the lender except for violation of an objectively determinable provision, (2) no violation exists at the BS date, and (3) the lender has entered into the financing agreement is expected to be financially capable of honoring the agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3:

http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_LineOfCredit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe fee, expressed as a percentage of the line of credit facility, for the line of credit facility regardless of whether the facility has been used. + ReferencesNo definition available. + Details Name: us-gaap_LineOfCreditFacilityCommitmentFeePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionMaximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_LongtermDebtTypeAxis=us-gaap_ForeignLineOfCreditMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_BridgeCommitmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_LongtermDebtTypeAxis=us-gaap_LineOfCreditMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_CreditFacilityAxis=us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_TermLoanAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_CreditFacilityAxis=us-gaap_UnsecuredDebtMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_TermLoanAgreementTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VariableRateAxis=us-gaap_SecuredOvernightFinancingRateSofrMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VariableRateAxis=snps_ABRMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_TermLoanAgreementTrancheTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_SeniorUnsecuredCommittedMulticurrencyRevolvingCreditFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_CreditFacilityAxis=us-gaap_RevolvingCreditFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_UnsecuredUncommittedIncrementalRevolvingLoanFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=snps_RevolvingCreditAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementScenarioAxis=srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 82 R71.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Additional Information (Details) Jul. 31, 2024 Leases [Abstract] Â Lessee, operating lease, renewal term 10 years X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTerm of lessee's operating lease renewal, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-3 + Details Name: us-gaap_LesseeOperatingLeaseRenewalTerm Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant XML 83 R72.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Components of Lease Expense (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Leases [Abstract] Â Â Â Â Operating lease expense $ 23,800 $ 22,018 $ 67,848 $ 68,165 Variable lease expense 5,182 5,622 16,761 14,684 Total lease expense $ 28,982 $ 27,640 $ 84,609 $ 82,849 X - DefinitionAmount of lease cost recognized by lessee for lease contract. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of variable lease cost, excluded from lease liability, recognized when obligation for payment is incurred for finance and operating leases. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_VariableLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 84 R73.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Supplemental Cash Flow Information (Details) - USD ($) $ in Thousands 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Schedule Of Supplemental Cash Flow Information [Line Items] Â Â Cash paid for amounts included in the measurement of operating lease liabilities $ 74,715 $ 66,556 ROU assets obtained in exchange for operating lease liabilities 64,790 81,027 Discontinued operations Â Â Schedule Of Supplemental Cash Flow Information [Line Items] Â Â Cash paid for amounts included in the measurement of operating lease liabilities 4,300 4,300 ROU assets obtained in exchange for operating lease liabilities $ 700 $ 1,400 X - DefinitionSchedule Of Supplemental Cash Flow Information + ReferencesNo definition available. + Details Name: snps_ScheduleOfSupplementalCashFlowInformationLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash outflow from operating lease, excluding payments to bring another asset to condition and location necessary for its intended use. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeasePayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase in right-of-use asset obtained in exchange for operating lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_SegmentDiscontinuedOperationsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 85 R74.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Lease Term and Discount Rate Information (Details) Jul. 31, 2024 Oct. 31, 2023 Leases [Abstract] Â Â Weighted-average remaining lease term (in years) 7 years 9 months 7 days 8 years 5 months 8 days Weighted-average discount rate 2.76% 2.50% X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant XML 86 R75.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Future Minimum Payments (Details) $ in Thousands Jul. 31, 2024 USD ($) Leases [Abstract] Â Remainder of fiscal 2024 $ 20,499 2025 112,496 2026 106,262 2027 103,600 2028 88,298 2029 and thereafter 304,542 Total future minimum lease payments 735,697 Less: Imputed interest 77,421 Total lease liabilities $ 658,276 X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease due after fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueAfterYearFive Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFive Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 87 R76.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Leases - Lease Receipts (Details) $ in Thousands Jul. 31, 2024 USD ($) Leases [Abstract] Â Remainder of fiscal 2024 $ 6,357 2025 25,351 2026 26,230 2027 27,376 2028 27,557 2029 and thereafter 56,491 Total $ 169,362 X - DefinitionLessor, Operating Lease, Payment to be Received, after Year Four + ReferencesNo definition available. + Details Name: snps_LessorOperatingLeasePaymentToBeReceivedAfterYearFour Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LeasesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of lease payments to be received by lessor for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceived Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of lease payment to be received by lessor for operating lease in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedFourYears Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of lease payment to be received by lessor for operating lease in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI

https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of lease payment to be received by lessor for operating lease in remainder of current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of lease payment to be received by lessor for operating lease in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedThreeYears Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of lease payment to be received by lessor for operating lease in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479773/842-30-50-12 + Details Name: us-gaap_LessorOperatingLeasePaymentsToBeReceivedTwoYears Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 88 R77.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Redeemable Non-controlling Interest (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Apr. 30, 2022 Jul. 31, 2024 Oct. 31, 2023 Noncontrolling Interest [Line Items] Â Â Â Redeemable non-controlling interest Â $ 31,043 $ 31,043 OpenLight Â Â Â Noncontrolling Interest [Line Items] Â Â Â Percent of company acquired 75.00% Â Â Payment to acquire business $ 90,000 Â Â Redeemable noncontrolling interest, redemption value 30,000 Â Â Redeemable noncontrolling interest, put option value 10,100 Â Â Consideration transferred including redeemable noncontrolling interest $ 100,100 Â Â Current ownership percentage Â 71.00% Â Net loss incurred by OpenLight Â $ 28,900 Â Net loss, attributable to redeemable non-controlling interest Â 6,900 Â Redeemable non-controlling interest Â $ 31,000 Â OpenLight | Juniper Networks, Inc Â Â Â Noncontrolling Interest [Line Items] Â Â Â Percent of equity interests held by non-controlling interest 25.00% Â Â X - DefinitionBusiness Acquisition, Current Ownership Percentage + ReferencesNo definition available. + Details Name: snps_BusinessAcquisitionCurrentOwnershipPercentage Namespace Prefix: snps_ Data Type: dtr-types1:percentItemType Balance Type: na Period Type: instant X - DefinitionBusiness Combination, Consideration Transferred Including Redeemable Noncontrolling Interest + ReferencesNo definition available. + Details Name: snps_BusinessCombinationConsiderationTransferredIncludingRedeemableNoncontrollingInterest Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionBusiness Combination, Pro Forma Information, Earnings or Loss of Acquiree since Acquisition Date Attributable to Redeemable Noncontrolling Interest, Actual + ReferencesNo definition available. + Details Name: snps_BusinessCombinationProFormaInformationEarningsOrLossOfAcquireeSinceAcquisitionDateAttributableToRedeemableNoncontrollingInterestActual Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionRedeemable Noncontrolling Interest, Equity, Put Option Value + ReferencesNo definition available. + Details Name: snps_RedeemableNoncontrollingInterestEquityPutOptionValue Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPercentage of voting equity interests acquired at the acquisition date in the business combination. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479328/805-10-50-2 + Details Name: us-gaap_BusinessAcquisitionPercentageOfVotingInterestsAcquired Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionThis element represents the amount of earnings or loss of the acquiree since the acquisition date included in the consolidated income statement for the reporting period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 805 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479328/805-10-50-2 + Details Name: us-gaap_BusinessCombinationProFormaInformationEarningsOrLossOfAcquireeSinceAcquisitionDateActual Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_MinorityInterestLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe equity interest of noncontrolling shareholders, partners or other equity holders in consolidated entity. + ReferencesNo definition available. + Details Name: us-gaap_MinorityInterestOwnershipPercentageByNoncontrollingOwners Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionThe cash outflow associated with the acquisition of business during the period. The cash portion only of the acquisition price. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479581/805-30-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireBusinessesGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAs of the reporting date, the aggregate carrying amount of all noncontrolling interests which are redeemable by the (parent) entity (1) at a fixed or determinable price on a fixed or determinable date, (2) at the option of the holder of the noncontrolling interest, or (3) upon occurrence of an event that is not solely within the control of the (parent) entity. This item includes noncontrolling interest holder's ownership (or holders' ownership) regardless of the type of equity interest (common, preferred, other) including all potential organizational (legal) forms of the investee entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Subparagraph (12)(c) -Section S99 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 480 -SubTopic 10 -Subparagraph (16)(c) -Paragraph 3A -Section S99 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (15) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (14) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3A + Details Name: us-gaap_RedeemableNoncontrollingInterestEquityCarryingAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionRedemption value, as if currently redeemable, of redeemable noncontrolling interest classified as temporary equity and the election has been made to accrete changes in redemption value to the earliest redemption date. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 480 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3A -Subparagraph (24)(b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480244/480-10-S99-3A + Details Name: us-gaap_RedeemableNoncontrollingInterestEquityRedemptionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_BusinessAcquisitionAxis=snps_OpenLightMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_OwnershipAxis=snps_JuniperNetworksIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 89 R78.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accumulated Other Comprehensive Income (Loss) - Components of Accumulated Other Comprehensive Income (Loss) (Details) - USD ($) $ in Thousands Jul. 31, 2024 Oct. 31, 2023 Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Accumulated other comprehensive income (loss) $ (180,112) $ (196,414) Cumulative currency translation adjustments Â Â Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Accumulated other comprehensive income (loss) (165,578) (170,104) Unrealized gains (losses) on derivative instruments, net of taxes Â Â Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Accumulated other comprehensive income (loss) (15,212) (25,224) Unrealized gains (losses) on available-for-sale securities, net of taxes Â Â Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Accumulated other comprehensive income (loss) $ 678 $ (1,086) X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14 + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6 + Details Name: us-gaap_ReclassificationAdjustmentOutOfAccumulatedOtherComprehensiveIncomeLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedForeignCurrencyAdjustmentIncludingPortionAttributableToNoncontrollingInterestMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedGainLossCashFlowHedgeIncludingNoncontrollingInterestMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedNetInvestmentGainLossIncludingPortionAttributableToNoncontrollingInterestMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 90 R79.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Accumulated Other Comprehensive Income (Loss) - Effect of Amounts Reclassified out of Each Component of Accumulated Other Comprehensive Income (Loss) into Net Income (Details) - Reclassification out of Accumulated Other Comprehensive Income (Loss) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Reclassifications into net income $ 2,078 $ (5,250) $ (2,356) $ (22,881) Revenues | Unrealized gains (losses) on derivative instruments, net of taxes Â Â Â Â Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Reclassifications into net income 2,689 (1,352) (1,593) (10,856) Operating expenses | Unrealized gains (losses) on derivative instruments, net of taxes Â Â Â Â Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items] Â Â Â Â Reclassifications into net income $ (611) $ (3,898) $ (763) $ (12,025) X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6 + Details Name: us-gaap_ReclassificationAdjustmentOutOfAccumulatedOtherComprehensiveIncomeLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax of reclassification adjustments of other comprehensive income (loss) attributable to parent. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15 + Details Name: us-gaap_ReclassificationFromAociCurrentPeriodNetOfTaxAttributableToParent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeAxis=us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedGainLossCashFlowHedgeIncludingNoncontrollingInterestMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_OperatingExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 91 R80.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock Repurchase Program - Additional Information (Details) - USD ($) $ in Millions Jul. 31, 2024 Oct. 31, 2022 Stock Repurchase Program [Abstract] Â Â Stock repurchase program authorized amount Â $ 1,500.0 Remaining amount available for further repurchases $ 194.3 Â X - DefinitionStock Repurchase Program + ReferencesNo definition available. + Details Name: snps_StockRepurchaseProgramAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount authorized for purchase of share under share repurchase plan. Includes, but is not limited to, repurchase of stock and unit of ownership. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 505 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-4 + Details Name: srt_StockRepurchaseProgramAuthorizedAmount1 Namespace Prefix: srt_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount remaining authorized for purchase of share under share repurchase plan. Includes, but is not limited to, repurchase of stock and unit of ownership. + ReferencesNo definition available. + Details Name: us-gaap_StockRepurchaseProgramRemainingAuthorizedRepurchaseAmount1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 92 R81.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock Repurchase Program - Stock Repurchase Activities (Details) - USD ($) $ in Thousands 1 Months Ended 3 Months Ended 9 Months Ended Nov. 30, 2023 Aug. 31, 2023 May 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Accelerated Share Repurchases [Line Items] Â Â Â Â Â Â Â Total shares repurchased (in shares) Â Â Â 0 751,000 74,000 2,382,000 Total cost of the repurchased shares Â Â Â $ 0 $ 300,000 $ 45,000 $ 860,724 Reissuance of treasury stock Â Â Â 409,000 625,000 1,634,000 2,132,000 Accelerated Share Repurchase Program May 2023 Â Â Â Â Â Â Â Accelerated Share Repurchases [Line Items] Â Â Â Â Â Â Â Â Share repurchases settlement of equity forward (in shares) Â 41,682 Â Â Â Â Â Â Stock repurchase program, prepayment during period, derivative settlement Â $ 45,000 Â Â Â Â Â Accelerated Share Repurchase Program February 2023 Â Â Â Â Â Â Â Accelerated Share Repurchases [Line Items] Â Â Â Â Â Â Â Share repurchases settlement of equity forward (in shares) Â Â 105,792 Â Â Â Â Stock repurchase program, prepayment during period, derivative settlement Â Â $ 45,000 Â Â Â Â Â Accelerated Share Repurchase Program August 2023 Â Â Â Â Â Â Â Accelerated Share Repurchases [Line Items] Â Â Â Â Â Â Â Share repurchases settlement of equity forward (in shares) 73,903 Â Â Â Â Â Â Stock repurchase program, prepayment during period, derivative settlement $ 45,000 Â Â Â Â Â Â Â X - DefinitionAccelerated Share Repurchases Settlement Of Equity Forward + ReferencesNo definition available. + Details Name: snps_AcceleratedShareRepurchasesSettlementOfEquityForward Namespace Prefix: snps_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionStock Repurchase Program, Prepayment During Period, Derivative Settlement + ReferencesNo definition available. + Details Name:

snps_StockRepurchaseProgramPrepaymentDuringPeriodDerivativeSettlement Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_AcceleratedShareRepurchasesLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of treasury shares or units reissued. Excludes reissuance of shares or units in treasury for award under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesTreasuryStockReissued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares that have been repurchased during the period and are being held in treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_TreasuryStockSharesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionEquity impact of the cost of common and preferred stock that were repurchased during the period. Recorded using the cost method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1 + Details Name: us-gaap_TreasuryStockValueAcquiredCostMethod Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_AcceleratedShareRepurchasesDateAxis=snps_AcceleratedShareRepurchaseProgramMay2023Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AcceleratedShareRepurchasesDateAxis=snps_AcceleratedShareRepurchaseProgramFebruary2023Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AcceleratedShareRepurchasesDateAxis=snps_AcceleratedShareRepurchaseProgramAugust2023Member Namespace Prefix: Data Type: na Balance Type: Period Type: XML 93 R82.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Stock Compensation Expense (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes $ 181,539 $ 144,464 $ 540,026 $ 421,949 Income tax benefit (29,972) (23,172) (89,158) (67,681) Stock-based compensation expense after taxes 151,567 121,292 450,868 354,268 Continuing operations Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 164,354 131,496 492,550 384,454 Discontinued operations Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 17,185 12,968 47,476 37,495 Cost of products Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 14,645 12,787 44,824 38,149 Cost of maintenance and service Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 9,677 7,765 28,126 22,451 Research and development expense Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 89,279 72,784 269,087 211,664 Sales and marketing expense Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes 30,251 23,697 91,811 68,094 General and administrative expense Â Â Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Â Â Stock-based compensation expense before taxes $ 20,502 $ 14,463 $ 58,702 $ 44,096 X - DefinitionAmount of expense for award under share-based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, after tax, of expense for award under share-based payment arrangement. + ReferencesNo definition available. + Details Name: us-gaap_AllocatedShareBasedCompensationExpenseNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of tax benefit for recognition of expense of award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationTaxBenefitFromCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_StatementOperatingActivitiesSegmentAxis=us-gaap_SegmentContinuingOperationsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementOperatingActivitiesSegmentAxis=us-gaap_SegmentDiscontinuedOperationsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_CostOfSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=snps_CostOfMaintenanceAndServicesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_ResearchAndDevelopmentExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SellingAndMarketingExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_GeneralAndAdministrativeExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 94 R83.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Schedule of Share-Based Payment Award, Restricted Stock Units, Valuation Assumptions (Details) - Restricted Stock Units (RSUs), Market-based - $ / shares 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Expected life (in years) 2 years 10 months 20 days Â Risk-free interest rate 4.41% Â Volatility 34.03% Â Grant date fair value (in usd per share) $ 600.29 Â Minimum Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Expected life (in years) Â 10 months 24 days Risk-free interest rate Â 4.36% Volatility Â 35.84% Grant date fair value (in usd per share) Â $ 357.29 Maximum Â Â Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Â Â Expected life (in years) Â 2 years 8 months 12 days Risk-free interest rate Â 4.63% Volatility Â 42.86% Grant date fair value (in usd per share) Â $ 408.55 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe weighted average fair value at grant date for nonvested equity-based awards issued during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe risk-free interest rate assumption that is used in valuing an option on its own shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionRate of weighted-average expected volatility for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsWeightedAverageVolatilityRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionExpected term of award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardFairValueAssumptionsExpectedTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=snps_RestrictedStockUnitsRSUsMarketBasedMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 95 R84.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Additional Information (Details) $ in Millions 9 Months Ended Jul. 31, 2024 USD ($) Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Unamortized share-based compensation expense $ 1,300.0 Weighted-average period of total compensation costs to be recognized in years 2 years 3 months 18 days ESPP Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Unamortized share-based compensation expense $ 70.3 Weighted-average period of total compensation costs to be recognized in years 2 years X - DefinitionAmount of cost not yet recognized for nonvested award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionWeighted-average period over which cost not yet recognized is expected to be recognized for award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedPeriodForRecognition1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 96 R85.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-Based Compensation - Schedule of Intrinsic Value of Equity Awards Exercised (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Stock Compensation [Abstract] Â Â Â Â Intrinsic value of awards exercised $ 90,973 $ 94,116 $ 166,993 $ 212,339 X - ReferencesNo definition available. + Details Name: us-gaap_EmployeeBenefitsAndShareBasedCompensationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of accumulated difference between fair value of underlying shares on dates of exercise and exercise price on options exercised (or share units converted) into shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisesInPeriodTotalIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 97 R86.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Income (Loss) Per Share (Details) - USD ($) $ / shares in Units, shares in Thousands, $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Numerator: Â Â Â Â Net income from continuing operations attributed to Synopsys $ 425,868 $ 335,708 $ 1,162,429 $ 880,994 Net income (loss) from discontinued operations attributed to Synopsys (17,813) 544 (13,155) (296) Net Income (Loss) $ 408,055 $ 336,252 $ 1,149,274 $ 880,698 Denominator: Â Â Â Â Weighted-average common shares for basic net income per share (shares) 153,417 152,023 152,885 152,204 Dilutive effect of common share equivalents from equity-based compensation (shares) 2,714 2,924 2,978 2,915 Weighted-average common shares for diluted net income per share (shares) 156,131 154,947 155,863 155,119 Net income (loss) per share attributed to Synopsys - basic: Â Â Â Â Continuing operations (in USD per share) $ 2.78 $ 2.21 $ 7.60 $ 5.79 Discontinued operations (in USD per share) (0.12) 0 (0.08) 0 Basic net income per share (in USD per share) 2.66 2.21 7.52 5.79 Net income (loss) per share attributed to Synopsys - diluted: Â Â Â Â Continuing operations (in USD per share) 2.73 2.17 7.46 5.68 Discontinued operations (in USD per share) (0.12) 0 (0.09) 0 Diluted net income per share (in USD per share) $ 2.61 $ 2.17 $ 7.37 $ 5.68 Anti-dilutive employee stock-based awards excluded (shares) 211 289 203 454 X - DefinitionEarnings Per Share, Denominator [Abstract] + ReferencesNo definition available. + Details Name: snps_EarningsPerShareDenominatorAbstract Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef 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-Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareBasicAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareDilutedAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareReconciliationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax of income (loss) from continuing operations attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name 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DefinitionThe amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionPer basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI 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https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerBasicShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionPer diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 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method. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480454/718-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-22Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 23 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-23Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-28A + Details Name: us-gaap_IncrementalCommonSharesAttributableToShareBasedPaymentArrangements Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name 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Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB 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16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29:

http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration XML 98 R87.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure - Additional information (Details) 9 Months Ended Jul. 31, 2024 segment Segment Reporting [Abstract] Â Number of reportable operating segment 2 X - DefinitionNumber of segments reported by the entity. A reportable segment is a component of an entity for which there is an accounting requirement to report separate financial information on that component in the entity's financial statements. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-18 + Details Name: us-gaap_NumberOfReportableSegments Namespace Prefix: us-gaap_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 99 R88.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure - Schedule of Segment Reporting Information (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Segment Reporting Information [Line Items] Â Â Â Â Total revenue $ 1,525,749 $ 1,354,390 $ 4,491,450 $ 3,850,631 Adjusted operating income 360,211 300,076 1,044,909 849,074 Operating Segments Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Adjusted operating income $ 610,589 $ 492,791 $ 1,758,823 $ 1,380,537 Adjusted operating margin 40.00% 36.00% 39.00% 36.00% Operating Segments | Design Automation: Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Total revenue $ 1,062,666 $ 1,004,156 $ 3,102,938 $ 2,821,570 Adjusted operating income $ 440,864 $ 410,023 $ 1,218,574 $ 1,102,837 Adjusted operating margin 41.00% 41.00% 39.00% 39.00% Operating Segments | Design IP: Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Total revenue $ 463,083 $ 350,234 $ 1,388,512 $ 1,029,061 Adjusted operating income $ 169,725 $ 82,768 $ 540,249 $ 277,700 Adjusted operating margin 37.00% 24.00% 39.00% 27.00% X - DefinitionOperating Margin, Percentage + ReferencesNo definition available. + Details Name: snps_OperatingMarginPercentage Namespace Prefix: snps_ Data Type: dtr-types1:percentItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingInformationLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: srt_ConsolidationItemsAxis=us-gaap_OperatingSegmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementBusinessSegmentsAxis=snps_SemiconductorAndSystemDesignMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementBusinessSegmentsAxis=snps_SiliconIPMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 100 R89.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure - Schedule of Segment Reconciliation (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Segment Reporting Information [Line Items] Â Â Â Â Operating income $ 360,211 $ 300,076 $ 1,044,909 $ 849,074 Amortization of acquired intangible assets (18,572) (13,565) (53,317) (40,258) Stock-based compensation expense (181,539) (144,464) (540,026) (421,949) Deferred compensation plan 25,780 21,492 76,276 44,123 Restructuring charges 0 (21,879) 0 (54,439) Continuing operations Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Stock-based compensation expense (164,354) (131,496) (492,550) (384,454) Operating Segments Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Operating income 610,589 492,791 1,758,823 1,380,537 Reconciling items: Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Amortization of acquired intangible assets (18,572) (13,008) (53,317) (38,632) Deferred compensation plan (25,780) (21,492) (76,276) (44,123) Restructuring charges 0 (21,879) 0 (54,439) Acquisition/divestiture related items (41,672) (4,840) (91,771) (9,815) Reconciling items: | Continuing operations Â Â Â Â Segment Reporting Information [Line Items] Â Â Â Â Stock-based compensation expense $ (164,354) $ (131,496) $ (492,550) $ (384,454) X - DefinitionBusiness Acquisition And Divestiture Related Expenses + ReferencesNo definition available. + Details Name: snps_BusinessAcquisitionAndDivestitureRelatedExpenses Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionGain or (loss) on assets related to deferred compensation plan. + ReferencesNo definition available. + Details Name: snps_GainLossOnAssetsRelatedToDeferredCompensationPlan Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for award under share-based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2 + Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingInformationLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-

gaap_StatementOperatingActivitiesSegmentAxis=us-gaap_SegmentContinuingOperationsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ConsolidationItemsAxis=us-gaap_OperatingSegmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ConsolidationItemsAxis=us-gaap_MaterialReconcilingItemsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 101 R90.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Disclosure - Revenues Related to Operations by Geographic Areas (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue $ 1,525,749 $ 1,354,390 $ 4,491,450 $ 3,850,631 United States Â Â Â Â Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue 660,479 561,500 2,015,066 1,733,107 Europe Â Â Â Â Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue 144,631 125,789 429,377 377,087 China Â Â Â Â Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue 266,699 292,079 729,583 673,575 Korea Â Â Â Â Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue 194,817 161,848 569,538 459,384 Other Â Â Â Â Schedule of Revenues from External Customers [Line Items] Â Â Â Â Total revenue $ 259,123 $ 213,174 $ 747,886 $ 607,478 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EntityWideInformationRevenueFromExternalCustomerLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_StatementGeographicalAxis=country_US Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=srt_EuropeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_CN Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=country_KR Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=snps_OtherCountriesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 102 R91.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Interest and Other Income (Expense), Net (Details) - USD ($) $ in Thousands 1 Months Ended 3 Months Ended 9 Months Ended Nov. 30, 2023 Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Other Income (Expense) Â Â Â Â Â Interest income Â $ 15,717 $ 11,877 $ 40,508 $ 26,875 Interest expense Â (11,752) (342) (19,409) (918) Gains (losses) on assets related to deferred compensation plan Â 25,780 21,492 76,276 44,123 Foreign currency exchange gains (losses) Â 329 26 3,438 352 Gain on sale of strategic investments $ 55,100 0 0 55,077 0 Other, net Â 1,710 (7,569) (9,820) (17,801) Total Â $ 31,784 $ 25,484 $ 146,070 $ 52,631 X - DefinitionGain or (loss) on assets related to deferred compensation plan. + ReferencesNo definition available. + Details Name: snps_GainLossOnAssetsRelatedToDeferredCompensationPlan Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, before tax, of realized and unrealized gain (loss) from foreign currency transaction. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 35 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482014/830-20-35-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481956/830-20-45-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481926/830-20-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481839/830-10-45-17 + Details Name: us-gaap_ForeignCurrencyTransactionGainLossBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe net realized gain (loss) on investments sold during the period, not including gains (losses) on securities separately or otherwise categorized as trading, available-for-sale, or held-to-maturity, which, for cash flow reporting, is a component of proceeds from investing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_GainLossOnSaleOfInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of interest expense classified as nonoperating. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_InterestExpenseNonoperating Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of interest income earned from interest bearing assets classified as other. + ReferencesNo definition available. + Details Name: us-gaap_InterestIncomeOther Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_NonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherNonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 103 R92.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes - Provision for Income Taxes and Effective Tax Rates (Details) - USD ($) $ in Thousands 3 Months Ended 9 Months Ended Jul. 31, 2024 Jul. 31, 2023 Jul. 31, 2024 Jul. 31, 2023 Income Tax Disclosure [Abstract] Â Â Â Â Income before income taxes $ 391,995 $ 325,560 $ 1,190,979 $ 901,705 Provision (benefit) for income taxes $ (30,712) $ (6,951) $ 37,634 $ 29,779 Effective tax rate (7.80%) (2.10%) 3.20% 3.30% X - DefinitionPercentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231 + Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 104 R93.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes - Additional Information (Details) - USD ($) $ in Millions 3 Months Ended 9 Months Ended 12 Months Ended Jul. 31, 2023 Jul. 31, 2024 Oct. 31, 2017 May 17, 2023 Taxes [Line Items] Â Â Â Â Statutory federal income tax rate Â 21.00% Â Â Minimum Â Â Â Â Taxes [Line Items] Â Â Â Â Estimated potential decrease in underlying unrecognized tax benefits Â $ 0.0 Â Â Maximum Â Â Â Â Taxes [Line Items] Â Â Â Â Estimated potential decrease in underlying unrecognized tax benefits Â $ 7.0 Â Â Synopsys Hungary | Foreign Tax Authority | Tax Year 2011 - Tax Year 2013 | Hungarian Tax Authority Â Â Â Â Taxes [Line Items] Â Â Â Â Aggregate tax assessment (refund) Â Â $ 25.0 $ (39.1) Estimate of additional penalties and interest Â Â $ 11.0 Â Release of unrecognized tax benefit and offsetting foreign tax credits, net benefit $ 23.8 Â Â Â X - DefinitionEffective Income Tax Rate Reconciliation, Tax Settlement and Tax Credit, Foreign, Amount + ReferencesNo definition available. + Details Name: snps_EffectiveIncomeTaxRateReconciliationTaxSettlementAndTaxCreditForeignAmount Namespace Prefix: snps_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionTaxes [Line Items] + ReferencesNo definition available. + Details Name: snps_TaxesLineItems Namespace Prefix: snps_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of decrease reasonably possible in the next twelve months for the unrecognized tax benefit. + ReferencesReference 1: http://fasb.org/us-

gaap/role/ref/otherTransitionRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Subparagraph (d)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-15 + Details Name: us-gaap_DecreaseInUnrecognizedTaxBenefitsIsReasonablyPossible Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionPercentage of domestic federal statutory tax rate applicable to pretax income (loss). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.1.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 + Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationAtFederalStatutoryIncomeTaxRate Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionThe amount of the additional liability or refund received or expected based on a final settlement with a taxing authority. + ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxExaminationLiabilityRefundAdjustmentFromSettlementWithTaxingAuthority Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe sum of the amounts of estimated penalties and interest recognized in the period arising from income tax examinations. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-15 + Details Name: us-gaap_IncomeTaxExaminationPenaltiesAndInterestExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ConsolidatedEntitiesAxis=srt_SubsidiariesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeTaxAuthorityAxis=us-gaap_ForeignCountryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_TaxYear2011ThroughTaxYear2013Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeTaxAuthorityNameAxis=snps_HungarianTaxAuthorityMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 105 R94.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Contingencies (Details) - Mentor patent litigation $ in Millions Jun. 29, 2018 USD ($) Loss Contingencies [Line Items] Â Payments for legal settlements $ 65.0 Patent cross-license term 7 years Minimum Â Loss Contingencies [Line Items] Â Potential one-time termination charge $ 0.0 Maximum Â Loss Contingencies [Line Items] Â Potential one-time termination charge $ 25.0 X - DefinitionLitigation Settlement, Patent Cross-License Term + ReferencesNo definition available. + Details Name: snps_LitigationSettlementPatentCrossLicenseTerm Namespace Prefix: snps_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1 + Details Name: us-gaap_LossContingenciesLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionReflects the estimated amount of loss from the specified contingency as of the balance sheet date. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-2 + Details Name: us-gaap_LossContingencyEstimateOfPossibleLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe amount of cash paid for the settlement of litigation or for other legal issues during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (g) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_PaymentsForLegalSettlements Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_LitigationCaseAxis=snps_MentorPatentLitigationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: DECEL 106 Financial_Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx M4$L#!!0 (%*&%UD'04UB@0 +$ 0 9&]C4')O<',O87!P+GAM M;$V./0L",1!$ \IQO;=!P4)B0-!2L+(/>QLOD&1#LD)^OCG!CVX>;QA&WPIG M*N*I#BV&5(_C(I(/ !47BK9.7:=N')=HI6-Y #OGDK7A.YNJQ<&4GPZ4A!0W_J=0U[R;UEA_6\#MI7E!+ P04 M " !2AA=9.:<.PNX K @ $0 &1O8U!R;W!S+V-O&ULS9)1 M2\,P$,>_BN2]O315D=#U9<,G!<&!XEM(;EM8TX3DI-VW-ZU;A^@'\#%W__SN M=W'-#E+[B" 1!XQD,=V,KNN3U&'%#D1! B1]0*=2F1-];NY\=(KR,^XA*'U4 M>P3!^3TX)&44*9B 15B(K&V,ECJB(A_/>*,7?/B,W0PS&K!#4F6#M- M#*>Q:^ *F&*$T:7O IJ%.%?_Q,X=8.?DF.R2&H:A'.HYEW>HX/WYZ75>M[!] M(M5KS+^2E70*N&*7R6_U>K-]9*W@XK;@#X6HMX++.RX%_YA621A'^_1S80RY8-[9)-NIL\!"SI^\Y%1^?H.'GS[BYBZ(:(E/)X M8-DOV]:[MR_>X%#BVR]*+ M41B1%G\@M MNN01.+5)#3(3/PB=AIAJ4!P"I DQEJ&&^+3&K!'@$WVWO@C(WXV(]ZMOFCU7 MH5A)VH3X$$8:XIQSYG/1;/L'I4;1]E6\W*.76!4!EQC?-*HU+,76>)7 \:V< M/!T3$LV4"P9!AI@S M&L%&KQMUAVC2/'K^!?F<-0HACA*FNVB<5@$_9Y>PTG!Z(++9OVX?H;5,VPLCO='U!=*Y \FIS_I,C0' MHYI9";V$5FJ?JH,@H%\;D>/N5Z> HWEL:\4*Z"'>P'_T=HWPJOX@L Y M?RY]SZ7ON?0]H=*W-R-]9\'3BUO>1FY;Q/NN,=K7-"XH8U=RSTS0LS0[=R2^]VE+ZU)CA* M]+',<$X>RPP[9SR2';9WH!TU^_9==N0CI3!3ET.X&D*^ VVZG=PZ.)Z8D;D* MTU*0;\/YZ<5X&N(YV02Y?9A7;>?8T='[Y\%1L*/O/)8=QXCRHB'NH8:8S\-# MAWE[7YAGE<90-!1M;*PD+$:W8+C7\2P4X&1@+: '@Z]1 O)26$ Q6\8#*Y"B M?$R,1>APYY= <7^/1DN/;IF6U;J\I=QEM(E(YPFF8$V>KRMYEL<%5'<]56_*P MOFH]M!5.S_Y9KF4Q9Z;RWRT,"2Q;B%D2XDU=[=7GFYRN>B)V^I=W MP6#R_7+#)1P_E.^=?]%U#KG[VW>/Z;I,[2$R<><41 71% B.5' 86%S+D4.Z2 MD 83 >LX=SFWJXPD6L_UC6'ODRWSEPVSK> U[F M$RQ#I'[!?8]*@!&K8KZZKT_Y)9P[M'OQ@2";_-:;I/;=X Q\U*M:I60K$3]+ M!WP?D@9CC%OT-%^/%&*MIK&MQMHQ#'F 6/,,H68XWX=%FAHSU8NL.8T*;'T"5 M0.4_V]0-:/8--!R1!5XQF;8VH^1."CS<_N\-L,+$CN'MB[\!4$L#!!0 (M %*&%UD(5#"MT@4 ,(> 8 >&PO=V]R:W-H965T&UL MM9EK<^(V% (;_BH9V.KLS(5@R$+(ES#@DV:9-"!NRZ:2=?A"V ,_:EBO+D/S[M'ME@LZDL/,SZ2^+;>=&CH\LK:;CAXENR8DRBUS"(DHO62LKX4Z>3N"L6TN24 MQRR'-PLN0BKA5BP[22P8];*@,.@0R^IW0NI'K=$P>S85HR%/9>!';"I0DH8A M%6^7+.";BQ9N[1X\^LN55 \ZHV%,EVS&Y-=X*N"N4ZAX?LBBQ.<1$FQQT7+P MI[%-5$#VQ;//-LG>-5(H<\Z_J9M; [Z)EJ1*Q@+E225#XMV9C%@1*"V!>HI/9<'2?8T M;?)ON]T61> JW[!W@;8&6A>L@SK MBDHZ&@J^04)]#6KJ(JN;+!IH_$BE<28%O/4A3H[&#_7CZB-DA45+!EV)&BJ M-QUW&W^9QY.*^'-TSR.Y2M!UY#'O^_@.E*4H$-D5Z)(8!7]/@U-DXQ-$+-+5 ME&=L#G?2Y2DBVO#OBF,7]6-G>G95_? U$^AO9YY(4WN'UT-Y0I=O8+JAY^2 MF+KLH@4=+6%BS5JC7W["?>M7'=X/$OL.MEO =DWJHRONIM!%)7IZBYF.U!R. MK?87'9(QZDBD7H'4JX?T):5",A&\H4<6&8I*5)=I8R-44?B]0N\?CV\ M*1,^]U0O1# .:)-G5BKZ767',\8?R7E6<)[5;)F"PA22S0#5>31K+6B0:!-I M##L2<% #HR%NHZD+]_0C1\P-$G#.1,Z,+.&95EM?#ZPSG1PQM CX?HCT>35+ M]LZR+F[=R8/C\AYUB?9]' L=.F!L-%U_]ZK.Z@03_Q3:0%-LO-ODXF+_. MG1ZU"0.$2P>$S1[F/6K1>:>"K_W(U2? 8K#EVM*!-V")<^B)L=C/O0:<\D31 M?_EQ]?AD5CSO6H.>EK0)AX1+BX3-SB9KK0ZL<:O!S +]GJ7%:L(0X=(18;.- MN>,NY&NZXI'),1P0Z0VZ[1[X!BU?$WX(EX8(F]W,DR_!"_$%PN3#_":.,3<5 MD$DMI%EIS,,0)J29Y.ZW#S$5:$V#-)/^V3JU,(IAA9>M?S]JJZ$)YX1+ZX3- MG@<,K^='2S1["^<\T-(?,$V3Z4S+U817(J57(F8WL\LGNGYU5S1:LDI/>$!H MXLRN'.VZTQQX+&%IC4@M:S1.A5 KEWRYDJ42YI14N]=R0/%%NT,S-D<=RUE: M(E++$MU&L+S.=^74$I3NP+6<9L4JSB9<$"E=$*GE@M02#;P\V((E%]KAZ(#. M'170VAW792 $,EXNJ25NP@R1T@R16F9H%M(@0)=I J\3?;LUZU2NN,UQQ_*5 M'HC4\D#7(1-+U3$_@X)<@4T(8QKI4VL6K 9MP@*1T@(1LX/9)7+%()$F/+-, M-5X35HB45HB87ZPL]9!EGZ(F%V,$[+(R_ ;@*J9S$+5&>O"8=#2H=#S :EV-N[M\1-E:5\86+0;>*@?:LQBE:<&3;@=NW0[]H&]FW>,V^W:2LH#P8@G\@/3_$;R.#MSG',I>9A=KACUF% ?P/L%YW)WHWZ@ M.+8>_0=02P,$% @ 4H8760W1?..O!P ,B$!@ !X;"]W;W)KRVBVX3U-ES M/C,V$PN51*$)/_B6/2Y-^\%XGGQ>7(QP MJTCE:F[:*23\>U)3E>?M3*#CW\VDH^TUVX&[QZ^S_]$Y#\[V>(3F36UTL1D,"HJL7/^7/S:! MV!E N&< W0R@QPY@FP&LABTXT&;[*RO8TS M4\&W&8PSD^G-UZOKK[/K*P1'LYLOGZ\N[^#DX^67RZ_3:S3[='U]-T.GZ)_9 M%?KMW>_H'I*S16X<)^K$U0JXY(:61(2 M+$B:#)0ZS$041=@M--X*C8- "/T,82Z.K3#G#&%L794F$<3K0YC"C0J0>;)(9Z[GFX%I^&2L"R8WH%::K'Q$N8*V"%5M_W.J'TX;.%E'VB^>VJ)$)%(KVBZ[-*7, M([XG&PFC[4^M%\]9GCO%,<X?2R/(Q@YIZ M,) (VIRB4S'2XP%QV+!6Q+PUZH)$PT:[4@X+5M0!&>@'G.T["1+PK?W[SYIM?[/2\X^&^;?MTE;R M17;E!. BY_J@16[$PGG/L9&72PB0,?@GCGL"(8J33Q(I#T2:1B)0\0<$FRC M+DF3:%BV'68Q>$4]:G=VAF$@;BMAI:#C;)RKE-I (TQ$"1XN!)_31 [LZ>QT2518<9@F.$X_ 'HXT#,=A MUW'H_ML$A(T095;5M>U80H2/D[3G) UO\;ZXE!Y1(>PMG)4#M@F#7;0G!5@/ M.7;,)N] 7)ECXY9B1BT\. PYX4G"/$T=ZW'&PCC[IA9*%1V&2UV>SG5I*IWG M;6G(2HBXJIWYRVQ>,8+Y,"$.FNVK[K'&PD\\9T;/OR]UOE!5 >LO"27QAVY[M:EZ<[1/[J8_?]9L^[[O/ -L_*V>BV!=1N%$_0.O\ <$FJD*/(GF", M4;V4<'DD&[/45?8_M?C0WF&%=&-JV,DMX!8[8V73FXZ^DJ&VX$G5;4 M4^!8CV861O-KK*V8&0E4C_FJ@;M#[W_3KFNK6M*662M08=(DC3BB.- VES1*K86#XE!+QBUIL%EV4$6Q;A6S$]PUF8 MX;"-:HHFET9MG]/J BK.LGT]^:1>GWW\ENNZ_MWIA4WK4^@N"!D^IW$:IA'W M;.98SW46YOJ:DK.74J_JEW1]?YQEW:G? 1G<*C582527[+P'O,\C/EUH-\67^[8D\:$LWB8'PY#*"_01?GB MVW.>A[>O5A?5KLV##RR3$4W(A".1 MQ3'FSY+OC8P M+[RNBL\#?E"R%EMMI)S,&'M4G9MY75.4(!*10"H&#(\5\4@4*2*0\6? #J95+ M*N!V^X7]*O<.7F98$(]%/^E LDO=L?4TV?EJ*+V"1R/_1NHAU MVAH*,B%9O &#@I@FQ1,_;?*P!3";>P#6!F"]%6!O '9NM%"6VQIBB=T>9VO$ M532PJ4:>FQP-;FBBWJ(O.#L3=" M_O5H-/71V61P/QI/KT?3&V]P^QE]01^1CD2(.1$]78(.Q:8'FS4OBS6M/6M^ MRZ(&LLUS9!E6LP;N'8,?!;*$V[MP'=R7*;#*%%@YG[V'SY=8$BA,B=@"7=$$ M)P'%$9HPO?-*^S68"B!0'I* !)A.$KXCF? OI@.L;7 M.N/_B6PG#?:9!OL0NSN! 4,X)W,$11<\G],4<[3"44;0&4W0@S]$*>'%2_< MEXF"OIW3JX 'RC4:AMG35]L.CP3M*&^6RING*2*$^%,AHS3OS"A'!2CM=(+ M_M:6*O@*JM\K]4NU' G:D=TN9;=/D'URJ;0K:6P:1FVQO^5RQT&G=- YW<$) MM=*I"#-;MF/:50MUD9;1LO=:Z)86N@'=BAS;:7:JLJMQ MH+I=%:UOG9OJSO(=\R5-!(K(I!&HPT4O+@'%!W)TOPHG3$)!W>#.'J1+@* M@/D%8_*EHT[G\C+F_@-02P,$% @ 4H8766IO#@W["@ 40 !@ !X M;"]W;W)K??=Y^KRO-PUZ[R0GZN@WFTV6?7SO5R7#Q<3/'G\XDM^ MMVK:+V:7Y]OL3E[+YMOV3=_@LY;QMT"'^G]G,OUNF52]'7GG1RN&;;\CW M1_;?.^.5,3=9+>?E^C_YLEE=3*))L)2WV6[=?"D?_BGW!G4WN"C7=?=_\+#' MHDFPV-5-N=DW5G>PR8O^9_9C[XBC!HH';D#V#8C9@(TTH/L&]+E78/L&[+E7 MX/L&G>FSWO;.<4G69)?G5?D05"U:L;6_=-[O6BM_Y44;*-=-I?Z;JW;-Y?S3 MQR3]>)TF@?KM^M.?5\F[K^K#]5? UXT/Z\>MU\.GWX.KC_-.'-#@-OETGPS1MU>>Y'98G\K[_M;(2.W0H,/9=&L MZB MEG()M$_<[6-'^YERR\$WY-$W[XF3\%^[]32@^&U $&' _%CMY!O5KWY+!+=M4=U9OLX6\F*A<5LOJ7DXN M__XW+-_(*?Z)$M\DJ6>R ;N9P?W,Q?[Y=>RR=8J,W>= /5!WUQTS=O9X?X2 M<\)#%I_/[H_="^ H9S1&0UQBXQB+,>,&+K5Q-.)(4'S #>SE!WNY,]SF9=T$ MY>VCQ6#8<9]AYY,L\4F6>B(;= (,X=(-PAMV[35DU^7^S;E)7W9$M_MKEE5RJ MD5U^LY9!5M>R ?-]S\/8XUQ;$30'$"A.&9&/-HHAK'@1C3:*I1.%8 M#]."\)Q]A;#B(3L#:VKDQB)4!@& S"!&"6&Q38L"A$1!EMJPT+&A""PS=' MYLAI\Q]56==*:%1W>0&9&MF=1BA'(35L!7 HIC&/#&-M'!4$X\@(@Q3 8<1C M$Z^;25E0KRXBZ0/Y0&KV4-9IS89\;Q29;X)$L]D0UZ B.M2)$S M]+XHSJQ:K (E(7FOU?%S%:5)@VH*)$5#QQ%46B,I3F 8Q%CH3GK 3@UC8:< M&80I!*01PP3!@8B/!#EVFG^=K96T;FU7H^^[;(,2M!S;601C-46;EMLX'%0 MQ*;E-DXPA'%H&F[C. WC:&2^QT3;3=P91Q9J#*X[R[.E*G7RNFG'Y#V8:O=D MPXY2230TS;=Q<1R:*B8!8#063)CI!\ 1E6Z1&+%>JVOL5(^OG&CWY(/P1L(: M!#:*(&Q.M *$S4(3$_8,!ZSD32,M%!0 A. JMR'^2*04@G"G1/&*M%KG8*=[VRJ*T)A_08 [H 1;9O6SCPIA& MD2DO)RJ%X1*=J;Q)!P$<5\Q'PM+K%;7>I9-R\6Y08>Z("D$TBE.M-L (<0 M,L57 N P4J4-BDVS;6"D8"$;L5JK2>R6DU=% (J6\V729KFQ6LMJ;'YSL^ _- MVZ"0\'QGJSV*0U,ES0$8XN^C;!XMOJW*C2JT"I43=FU:V&?&L@#=0 !11TB(3 T X*B* M"#.%) .8TXI,S,B (Q"'),1%4"TJB-N[;>3 H>>N?Q;EMOX)CQM;\C$465$R!W"4 M"F+JY03 M>4:"2TOV, H0B(>"0B,T !84QYB,P5. "'L2",F'((*H /5ZQ'9JN MA3%Q"^,$GNI XVU%"L.]@'*U9S6(#)K5 -SXK*95,'&KX%]+3Y&]/P.F)QL' MIR<;-Y*>;* S/6DQ3-Q+L'9Z4A'0[S2/^"4X;<\ (Y LX87E=J_7*EGAE2WVQ M#;>%M7RG;OD.)JS@)"^ZTP*'/GP#;ASWU.%Q23$-S0P&HHBIW@%4.#4W2P 0 MGXZ5,%3K=NK6[2.9Z[E>Z,FCX[R"IE8U1VU1;9:T,).9ZE,GT] %6IM3MS9_ MWX[$KBC9#V(]>I_I!6+=.YF:NUUS&<7@HT*I]82)H!R[,/100GW28E?2F3+ M?-U^"Q^O\'N^PN\!"[\G+/X?1RRH+A2HNU!X52IC0&!:VZ$@RMQC20!4.&56 M+K-1? #I6+5%=)E#WFO0K:5[;$*UOJBVW8!UKN,^S, MB:ZSL,Q9*;RX$WRR)5[94E]LPT[0!0=S%QQ/GX@E]I(&85R8&]QS"(@)0N;9 MV00 4A$]J#D70T <,SQV*H_IXH*YBXOGG(ME7NL%KVR)5[;4%]NP,X[.9#]5 M+SQY))0!R_YAS*E9UX(XQJQ-:P#'.0VY.?] .(0P&UFM9+H\8$\<6UN51>/. DZ*%P>@3[;$*UOJBVW8&;H48N[-$V<6\+H3XI4M\S (<.+#$B*J9C2P X$A,A#G))P .DTC],4 (S;HG7L M(2U="7'WQL>'K#U%4F3%0G;'35JGY@O8>*^%D5>VQ"M;ZHMMV">Z,.+DEW,! M=]94+^X$GVR)5[;4%]NP$W2=QMU'MY[.!NNTIY1F>X9 MCMWE?QKGM+@_']>WPVQ\#W"3Y+ ^[=1:/K^Y1@?NH<>ZV M;]6E MT#14MUSU[YOH/S3EMGNAPDW9-.6F^W4ELZ6L6H#Z^VU9-H\?V@LB#XPTMM25 M1%>DDTV_OD/)EBV) <8/6#XE%Z68X'+BE9??10(@R8*\3E()%R>3X: MB2B!G(DSOH0"O\QYF3.)S7(Q$LL26%P9Y=G(- QWE+.T&(POJGC,872[: &Q\TS45)XY_ZX:-_'EP% C@@PBJ2@8_K5+!), M,>$X_EJ3#IH^E>'N\X;]4S5YG,PS$S#AV6)I+)/+@3\@,2LKZQ1K[10@3*3)7Y- MT4Z.)_=WT_!N%DX)/LWNO]Q,KYZP,7O"G]OP[FE&[C_AI]N'Q_ SXFZ^A>3F M#MLA.25?9U-R?'1"CDA:D*>$KP0K8G$QDC@NQ3Z*UF.XKL=@OC,&B]SR0B:" MA$4,L<9^NM\^V&, _0CT:4B0F(9I:\8S^;BYI9O. ^L] M _,^]M\2PF@BQ*C[K';Z99!(P-4C"YV3" <\Q'B4H4+T!NBHCG0'Z_>A:RQ"7 _MA\[W-;NM9U=Y\%PL6027 R064+[8/SS3]0U?M$)?TBRZ2')P@.1M5QD-RZR M]['&/[W!#22M?Z!Q0V[]5K=HW7L:V8?L!AM;+KK1]F&59AN.T8=,^C%+;H('1 MQH5]G.]1U]K"6C-UFIDZ>XQ/Q7B90DJ@5A?7,R7'&A3@YURG@'#($#TDV/219 M>""REF/\[4%?2P#(@!%2V4*8D@*'J!*N9#_4SY&A M="5+*%,>"U(YL)#:S?+:ZTW*]SNK>-+'G)JT*V$? 1#VWDS9"#U?\A%?4BRZ2')P@.1M?P0-'X()D;R%.: B[@; MO:W@/#JFP\ /3@C6?G7#,TZJ8,54C7\E0/6I0&Z2UW4:J#]-8*'RUM0Y0SQU MB"54QX;L;5B9J+@_-H?4]AIV>Q@$3DT/+$JJ06 W@N$&L%D<*@>E(F)950&U MB<]TD13T4P7U:6?%]$%.8'B=%=,'>:[333]:[BSDFWOCRN'+F":F=J7;/;*7<@;(531W1RS\XPK4/$*A6P?V,*4; M#_M#S _.[>"UY_?G78?1ZGCVD%OXGU@X/BN^= [,MVEFF#PQN;@.9M<_MW5=UY==Y?T_,)U;R?JMO"ZD)J2U]?-=ZRVW?JT.D'&=:&GD ^ M2=AI?WU70*A#L"_3Y@M(8I]G=Q\[8X.7'R3,8 B3RG+Y-B(E=K=F*8,8TBI MO.8[R/#+AHN4*IR*K2EW FA4@%)F=BRK9Z8TR0QO5*S-A3?BN6))!G-!9)ZF M5/QU"XP?QH9M/"\LDFVL](+IC79T"TM07W9S@3.S9HF2%#*9\(P(V(R-B7T3 M]+1]8? U@8,\&A.=R9KS;WHRB\:&I0,"!J'2#!1?>Y@"8YH(P_A> <1JU2PT\ M'C^S?RIRQUS65,*4L]^22,5C8V"0"#8T9VK!#W=0Y=/5?"%GLGB20V5K&23, M1>)!!<8(TB0KW_2ITN${@#SM@$X%Z#0!['F 4P&=+&2?"!)1E8QSR7-(CDR%<:IO9EA%=- M&5/G1$P.N>>9BB4)L@BB%KQ_ M'C\\@S=1GUJDSK-(MYVSA+_F[)HX]D?2L3IN2SS3M\.=MG3^G_?@/WM_(893 MGQBGX'-.\"T558 WA2)\0Z8\Q>LIUO?&'L@"WD*Y/?)6BJ!5\ ?;7M?LKOM M[/I:O)$[&L+80&()8@^&]_-/=L_ZI4WX]R3SWY,L>"> R%UODUEODGF/WIC'- MMJ#_PCS#XL&2OR$B6RP:DEPP+B7(2Z(OZ3U-&%TSN,)Z^I#E&&[DA2_]DFU>J^VRW$' M#:U>VZ!6MMW0JLW*&C@-K5JL!GVKWY#*/*J+*8AMT9!($O(\4^6%5Z_6/<^D M*/6-]5O[9FJWK/O8(Y4MS; T98-U3\56GS,&&W1E7?=Q7T79M)03Q7=%55YS MA36^&,;8YX'0!OA]P[EZGF@'=>?H_0-02P,$% @ 4H8769-99][%#@ MX8L !@ !X;"]W;W)K'%1S9?Y)JM^*![RK?S- M75%NLEJ^+>\OJH/5Q,R^?*#MZO[9=W\X.+Z\B&[SV_S^K>'- Z5\=W&B+%:;?%NM MBJU5YG=7DU?DQU1X38-]Q.^K_+$Z>VTUA_*^*#XT;]+%U<1N>I2O\WG=(#+Y MS\=\EJ_7#4GVXX\C='+*V30\?_V%'NT/7A[,^ZS*9\7Z7ZM%O;R:>!-KD=]E MNW7]MGA,\N,!B88W+];5_O_6XS'6GECS7547FV-CV8/-:GOX- MT/!%G#0CK M:4"/#:C2@+D]#==BQ 1N:@1\;<#4#Z6D@C@V$FL'K:> <&SAJ ']3P#TV<)&4& MW.EIX!T;>$H#VI?!/S;P]W(X7+_]Q0^R.KN^+(M'JVRB):UYL5?0OK6\YJMM M(_;;NI2_7O9-O;M_)?WX-7[^[M6XB^>YF M]H_DYI<@?'O[W3<>)>Y/5OC/W])W_[:FUF^W@?

7]MR^L:IF5>66MMM:[9;&K MLNVB>FE]VWE_>5'++C>)+^;'[OU\Z!{MZ=Z[HL[60+/9@&;??4,<^R?KJO.V M>*@^5]9M7RV$M7UAA5FY7VWOH1,=/G#$Y4E:[
M\G/O(27F]J_F\]UFM\YJV8N;>IF7ECQ%], 9.MO.9=?D MU3AH^(65U=;-O/[!8N2E16U*(>$:][C]=$4.:*RXN/YQK%S!EAPF),6(()2Y%@':&RDU"96:CY_6K; M?+SEW?T@V2$R/3"=,S$(06U!G:X:9E
<$2Y55!/H<5)<7)$6$,0]EZA)(R@I MX\QVNW&Q'CHJP%2/XYY-3D&=Z\-/UX?O6[&>ZR.'N&80 ME2-)D!]>O6A&^//;SM^.-QSK/V_E0&;)Z=IC5B[^"UTWCCF\8,("3%B("8LP
M83$F+,&$I4BPCLC%2>3". B]EL]2]_V']!*MT.X\GNMSCRAC#1#FV8[O*4.- ML2=CA88)BX8=0(R9,\&$I?H!R &5N/ Z>]RTX1BU<5OSM5OSOM5QWK=NYGTO MK:V4CYSKUMDG*
[^[DP^\X#.!HXW.GN[3%&1HU\$/2HP=GFLB#!A$28LQH0E M@\YLBI2R(S7W)#77*+4WNW*^E'?8_9-3_>79I6INM><3>4A?K4U'-L5YT[SSQ=+%!< M
/"T>;C.4D,BXS&.%825,D6$<#_DD#OE$#Q^G\W6$B;^TMBFQ>[V]T MD A_:)Q8=NVH@%?/X] 6&#LV]A[V["<$6;.&!.68,)2)%A'5,1N35G;**NC MO7BXGZVJ:I@4:Z@1(D^4#)*N?HD>8P3
M3\0% (\257P R[&9S]5;)A1(?&*KCW] G/!MUU>&U,1\=D=K 8G6U4+KIA.S MG;ZWNZ;-^N-B_R@HGP.S9ED3OJ,JZ4\TI\;FO7F4@CG@V=]6KC.GUA@.S1JA9 M8U1:@DI+@3/"?)O"K@%I?6UB-
K9?+?ZWJ^I-OJTKJRZL,E_D^29[O\ZMK;+L MLP*7?8YB8M#'U]5N:X/" G.71TL)DQ8-.X08-6F"2DNQ:%W%M4X],7JDUV_S
M>7&_7>W++>0]JD]FUNY!!C0WM/UR2W,WV[VO5HM59GK0.^;N7!Y?O3G,@"A" MJ*_*$-5L'Y0$LT9H](25%H*72EJLQX;E+0>.3&;Y#U+RG_?K4]K=0Q4#J;' M.T.E!42WC(F@1%T?
#%&S1JBT&)66H-)2+%I7LJUU3\S>?;A=*'O+3ZM5MXF% M[W#;5ATM,%!X0EV]#8AN_#<:4Q6FXZ0,7;XZ M58YE:VYN8?>^>D>750RFOE6VX5IBNZPR5%A#=!=7 MG0KMNJ,:Y*BT&)66H-
)2+%I7LJU+3LPV.5BV\K1@=2M9>,SQN5 '%S"0>$*; M2NF&>5,6I8I,QQ'&;&UV'0&!<@XN;-M7!Q? %"=R;'&YIPXN8*3P?;5Z!3IF MVW-Z!I?6RR8'5_.O*6 AF'[L#)46H-)"5%J$2HM1:0DJ+
<6B=K2:,&D1*BU&I27#3F^*E;0KNK.*+.' M_B>]6ZANT4Y=+2H],^(FC-"I<6HM 25EF+1NEILS7EJ-N='5KE0 MH);3I_U$@<*F-A08 1;Y5[-29)BC1ZX!*4/4E!$J+4:E):BT%(O6%6MKPE.S"8]?
E'!,V*W> M\H3Z>#ZC0'4U$!< /$?5'H"B1#B.^DT:*)!XKN^H4WC QO>$YI8DYI,[6@K/ M86[3UMRF9G-[3$T"!=QESKFCFMI@'/4=]4L,YJZ-GJD/RQJA9HX1:0DJ+07/ MB-
_CA='6:*=FHQVG)H%"E=\.U^9"@\(";B!085>G.74-5Y@ -]ZJK?-C9W9[3H4'WU MH0<1HZ9-4&DI%IA[/5I/ MJ$7GJ+08E98,.[TI5M*NZ%K#G9D-JS]1P," "FOU@SPSIQ]]0QV0,D1-&:'2
M8E1:@DI+L6A=);8^/OQJC6)];G $A^P00,#[&YHAP:(I\W:@?IW=;Z,6]P^ ML/,):M84B]850FNO,[.]/G:G#J:7BX-"T.U54 >H7OBPI!%]ZEJ#24BQ: M5UNM&
<[,9OCSUL4PP)9VF'9+1+7"!^4,47-&J+08E9:@TE(L6G>;TM8(Y\^Y MNPPD4:Z[VE/".-<,+PZ9RT!@ !")6AP#P1SYGVII1^;S,5990%K!J'Q64VZ? MJ%E3+%I7,ZTKS\VN_)@2&@[L>\)M6]MR&
(IC#K?5S5O,71M[\QR8-4+-&J/2 M$E1:"IP1=EX&V95,ZYUSLW>.4T+# 5_9\=5-"V;#P@)SET=+";6D?=@AQ*A) M$U1:BD7K*JY= ^#F6O5G+:'A0!VZKVX&-.-Z83CAVL[&YN,8+<,A.2/4G#$J
M+4&EI<#YF%+.^P:TL_W=S9[(@H7#BH'*2E+8>H*]/F]&.G\ .SAJA9(U1: MC$I+4&DI%JTKQM;7YV9?WUS- NM0= _!=EW"F[9'%=9/=6V?J=7D 4!L-*8J M#/"LB4^9P]0A"LCK>=Q6=^"+@<
I(3*4:9-PL"[>)D1US(% [O?5R?'6">=F M)WS AAWPM<(T86>HM(#)=?R"4@MB@I1LT:HM!B5EJ#24BQ:5[*M9A>A.]"NK[J$,Z&;P7I48.[S6"VA MTB)46HQ*2P:=W10K9U=QK34NS-
;XGRAV$;KSJBXPFY./O8^BTD)46H1*BU%I M"2HMQ:)U!=L:\^*KMY6LJA&X1#TL,'=YM)10UPN&'4*,FC1! MI:58M*[BVH4 \56;S3^YSBB@#=V!]6YS^M'SJV%90]2L$2HM1J4EJ+04B]85
M8[O6(9ZHWQ^_WBWT$GYXO1L,A-:[@4!@O1N* M>[H;S@>C<0V+/>#49"Z]U M(+#>?5$M\[P.LCJ[OGS([O-?L_)^M:VL=7XGF]D_N/+C5[NEZ&PO=V]R:W-H965T&ULK9I]
M;]LX$H>_BN!;'.Z N!9?])9+#*1>]M#VP1U]_9O1:)C7671*U%)LY_^AI)C MVN)0=K!@<:2A]1OR.$\0UH73[+^T:R$4-[/=5DUEY.54IOSV:S)5F*=-N_D M1E3PS5+6ZU3!9?
TP:S:U2/.NT;J<4=\/9^NTJ";SB^[>73V_D*TJBTKE/+I^%0\KI6_,YA>;]$$LA/IM?\LN)KQ6)4F1*=Y'"GT=Q+7#F/FW$M2Q_+W*UNIS$$R\7R[0MU3?Y]*O8 M.A3H_C)9-
MW_WM/6UI]X6=LHN=XV!@7KHNK_IC^W ['7 /K!&>]! M SILP!T- MV+8!ZQSME75NW:0JG5_4\LFKM37TICJT8].U!F^*2D_C0M7P;0'MU/SZ]NO- MAZ^+#S<>?%K)7[^/GV]\7WM3[;7'C M_>.7?
WJ_>$7E?5_)MDFKO+F8*5"C^YQEVR>_[Y],'4].O"^R4JO&^U#E(C]L M/P,O=J[0%U?>T]$._]6[SQ&SCSJ4X[HN3Z].1N1PW8CR[K^F&MDTV;E+6&9 M--
ZRERFL/5EZ=]J)ZZ$.W4(5HSK%AZ[OE>+=Z69\WFS03EQ-8MXVH'\5D_O>_ MD=#_%^;S&W5V,)\-P)\K/?Y5\A"197)M<#<[-N&75N=;![GA'"?)/[%['"? M]LNCDC(C-F!MF"G+1B=G:O\?
["X(!^IQE,2$E(FJZPHA5?M1.O[^BK3$[FI MY6,!<>K=/Y\^D\%;SN0;=78P6N%NM,+1F;Q:RUH5?Z9]YJUR2)3PE*SH;F"> M]]T%^Y,;^X0G@[E%$TS&\+F-=FJC4;7?1-[VD)#+OMLFHVG_KV8?
X:%+(61 D#4R_$@]%!LGK46PS M&Z];6(*F0>#O3?16N&WG2+F$&M'T59%]7Q?Y XQW4<&XZR7:A3>JFB*9@K-@ M*-HVCC)S?B*6H(1IV5$A_.B*'V2-+HS#F0Z)AAB0, 9 XM!K@DG'B
MWJJ5J+U*5E,-+50DMY_-(F9)M,WBT+G&#'3).'5U19"MTNI!-+IZW -IEX@[MM)1%>E^4'53/.OY"H*39'VVAYV#/#CZV:W%@CT*8O"F%WZJWPP$T'"9'0)QE MLM4U"]!7%(_I?8G65L0&:Y"08(A?
Q(P0&A!7'!H 9SV$XZ58G-S M&A'FLZ$^S"Y*B"L.#6'),&+0:K%)B[R+(]FMF:R%-5ZID8J V("#?P[.4\-.>GRW>M)6#Y6A))#73HLLA$[6)FPM7'D!VK02L?1 M.CQNZ,O
$S:I]$WY^%:]'8Z"X2,=Y^-=+3,A\NT8K%/5UIWG7?[1M7+3%H-:^DX:P^' 63-&$ZI M5?YC9OM;FP&W;VI96.[U:UV#-[4=TG?.YL>1 (.=FW3 M[6Q17*':L4TN29)H6%MBAI" @L!!.F9 S?
BK2&>.#XX=K(\6 *\^67^CW@Y' MP?">C9)T_@UV,,]=?$'(>7]P!,ENA;ZT0W,PU4X;&[B-C4+KJ$+H%<^TPL^:L6[KA2@LSZ.R,682*,:'$8L9)IP&KA\]N,$K'\?K MA^529/WZ^MF?=WJZAMR=?
4(BT:Z=]0[JF'Z$"KG:GFP"+E1=9'KENHYQN4W7 M@ ?#7(-8$0ZL=KBW][ON"5OEWJWB+WMB[X@YB6DRK'<0.QK&?NQ:J@:D?!RD MUR?+/_/N81M053H$86J?15]?Z5\%RC0?
KSHZA)=D>1%HQ-34>G3KNT1 M2V MJ/LV>@GGN@ ?^H\90GX-7>O?4)J/4_IU R#T@2EL+T1=R/RO.X_]_ALD/+92 M#&(8QE'"7NS:%W!0%?+PH>*UC M6Z^Z"!]WJW_NP>L:,8>=R;
PPPS#F %'!K[-]EYB6HOZH7NWJ_&Z<^3^):#= MW=W[8U?=6U.#*^ _)^77_%CIIG\[[4M:P_IMO%(LH4O_703#??7O>?472FZZ M5Z7NI5)RW7UU#&VKV:SH&IJ9#AS+5E*9UO9,32
M5[/0>I)%VM28V6(^?S%KI+:3Y55ZM_;+*]=%HRVMO0A=TTB_OR'C=M>3\\GP MXIVNZL@O9LNK5E;TGN)?[=IC-1M1"MV0#=I9X:F\GJS.7]U>;<3GJV!Q@\IU+0;Y+3EHKR/'E\U
M]L7E+07E=9LRY$IQTP48A' UBP!GDYGJ@6XRT.(;0#^+M\[&.H@WMJ#B_TS MD!J9+09F-XLG 7_OS)FX.)^*Q7QQ^03>Q1CI1<*[^ ;>2BG7V:AM)=;.:*4I MB']6FQ
]E/'O8P%GO,O'\;A;7H56*KJ>H!T"^2U-EC _^D=3X3HOG!==> :)&_2-#R)ZR)$*(6TA ME&L0=,W-N241-/() _@$$"(U ;N"KJP(SG3L&K"E=XU(W>B=U6JPD!TD+A.] MDS>WJV=3H:TR7<%URF
"WG6I539B[UMI=)&71P[8>T]$VX@^AZM.&M%ZC# ? M]^+D;OWL3'PQT4H?+7FAC,-\V*/E8BT'-;RWZ%1$Y.QFB'6W(:= *N^0.\E- M2L)+6Q$G56,7=,2* @ETIV[T]Q*Q)NT%:T-Z52?
(@K:8@RVF6A1*MG(#PF#& MGT"3?>LM7B26TA-LHC3[3YP,H GRDOTAG*U,F<^!ZHJL(O;=NAWBTM:Z;I6B,FZ#U!F,^82'H=VV9C_P0*&0
M^3+NV#]!DZV@*\Y1%Q*3H;R(#$YC8EIYR0)2VBOX#BC(ZX"'2Q.&$>]"&K0H/F9UDX6=U!M![9L0EK9)QK_3+SIC3 M$*6ZSY& 3.*L(6J'K%+)P$#+E9%*0;?,/>W.>-//9 OLZ#6?B MSQI]-
_#H\4=G/L\ K@T[N(ECA2V_M&^5WZ^,IM:LUSP)FX*E/W7%//-)-W!1P!N5;& #?2% .Q^#JH.PT>3_!(8Z>E M:Y,.]S9GVEE@_N$_E$>7O"='}@>!KW%O$1PQ*E&HZ--UI:@3[=219(\@AM(MT M&
[WQD@??5%"SH0)'OV@(XR2]ZB5^MT;8VO=!'IS\9/H&8IT>?4#((I- O&$B\ M&+% P4+S@*V1P*[(X;.U$(Q)V,^\-@PVUXVK7Y5/(A85N!33IJ&5,)LSI9 M'LALY-/##]TNZ('$!UP-
G)+D@7FM'=3V;ZEA^G+//)8Q_ .^OO4R++15?C8 M?6)V=.=#?U3I9LM"P1TG7__&M^/E>97OC ?S?/-^'SEI2,A0B:WSLY>3R"< M=)O-B^C:=(/&ULM5EK M;]LZ$OTKA"]PD0"NXSA)F_:F ?)H=
[.+WF;K]A:+Q7Z@=IB*Y$J2<7QO]\S M0^KAU.D#Z'Y)+(F5,EY;(YQ:OAQ='+ZX M/*;UO. OK=9^\%N0)PMK/]/%3?YR-"6#5*FR0!(D_MVI*U66) AF?$DR1YU* MVCC\W4I_S;
[#EX7TZLJ6'W4>BI>CTY'(U5(V97AGUW]7R9\3DI?9TO-?L8YK MGSX?B:SQP59I,RRHM(G_Y7V*PV##Z?21#;.T8<9V1T5LY;4,\OS,V;5PM!K2 MZ >
[RKMAG#:4E'EP>*JQ+YS/8S*$78JY7AF]U)DT05QDF6U,T&8E;FVI,ZV\ MD"87E]K3XMOG?+*!$FA/3L(L3D'61)ZV74.GM$ZW/QQIl0>/'*Y"K?WG\ M#SHW9JT;E[-
O"OQ'4T[$T>%8S*:SXV_(_^K"^61Z7UPM^._'3Z=_O$-:X\[:X^_)?W_EL1O:MWM MTZ\P17Q4HI!W2D!L+9W*12@4ZC>S52W-AH1D%L Q'H_PRT-B+@,NEMI(DVE9
M"@]1"N01O*@;YQLR(E@6Y)HR:7=JU92LDFV@AW.5-4Z'UKY7]UDAS4J)*UM5 MVC,5[U/Q.VV6/^(X+%8)V]ZFZT3MM*!+,Z4"Z!.H4TD6&8J2%A:&XP- M2N3:9Z7U#>)#D@RM*LL--F1EDRO\%
[9QV&,:N/T#T6ACJ@V'U.58H\ ZH1 ? M)O.)6"FC'*O 8U63(-EGKW90K&MR=(^7_^%HGTH*3!"-D4VN:SPV1_(2ZT-@#*L9+P&O8)F7\"/T9Q>Z11>S;1FI+Q
M%T,U1C*04D=/!CO&0MV3=T)"!=+GUMI3,'/@%1;M"Z,RY3U!&8D14BRE=J(> MHA0J*/)?&NF"XK8VN*DK4>.O1HX8K#Z9-]H[T/@A%34.\S8)=P/G$^D>4R:4N\:0S"85*TJX1XHJ6
M'L[2TKVOM +"'Q 7Y/054(1"5,CC>]N6RVZ'8BBH<'78#$J(:F(\ +.H #M< M?T8&6^DQVA[#4!T)B/,LETLD./)=137G$72R+Q9L^-DJVYG1">@XD.LMQ#). M<*ZA'-!QMDJ$MFUL7,4U* 7==J1-
0W;&2.:8?@US)K/.MMIZ3>Z"/GLB0="O M.E?XX<^R24N&S(21K*+FMG'PC52PZ\(RN^%Q)3]9L/WFB5T;R/;-PNM2G31>9C%W')2%4D:H4F-*DRE?V;9;KR.(_TT@)AGI^E^106@8 MBMSQ
.R>HLMXE]$!7V] &L"DY];3ET%*$O,@.WLR VFJS]2"VHJ(I*=9'L&M MKIVJYQPC(NI.$=UA2F;5@]8EQW;PJ;@6;CGC8=/'T\YXS# M'UZ;4+S4#O8G[B0_P"TE!H;6]_3$1]-Q!W&0'=GZ+I8T[PF,$
^,P>K8"L2? M]BX6?ZS]8QA8Z*Q(N/6," ?/3:/&S*^ 7,SP5U@>*CT2:\E:9P.MM"N2$Q2W MB9F=1M*)J6W+@K 8Y1-^>I:CJ!@,6J** S+6+0>>D@;6GD*
M9AQZJ%4@E^5FO&W81;,B.CH:]R(Q/F_$['DT='OSA,AXN_%AH$(=*VCY-7Q$ MA[L(I97DNS0YYPC0>9/Q-PNPYKH^ 9UN:+*%=>P$C2%PE 3<=UPGRH%AYOD0Q$!)V*%@'T'FN\%Y6*Q)SA-
G$?&;P@>\'BF'-I3B$ MT,!F:5AJ5-[GF',PCBLB!L8[E'533X$:!C.1O7T@.TIUU(J791P%4@_]@>#[M1VSSX[89J92C4LN%+N,8O%:L+CC;@X)FJFVW=^\M5!EG%8]D3FBNSS7/ #3 M61YUB%C3RD? "Q'=U&TKJ!I S%^Q&B@02F4-U:CMJZ'B][VE97&^C_CV&&I MT22T7@T#]KH+V+P+V.1(]QCN4TX-V- 8OC'&@P,KI?SX@:SA/-V>AKJ"WCD3 M3? C@U$(_0UF!BP;VN.LP>\LY?G&H)[!(
#Z+)9H[]U@%QRE\D)WN;3X)_9> M7\PO]\&E#\7W"S_4%"VQ=S'_L,_BGTS!%J]I,OY+EHT2;Y2DDPK//'OO,/IG MXG0VW7_QV!H:M[XT5&6#<]>\67SB(8BSQ2=NBL0<$$(4< 3767NR8B9'$MU
M##0="U04Z'N!5=0(H(8XQM^Q(;$#(G^^5Y@-%!)FJ>8ZA91OM)IT(D3G+/1" M(^#P)"J*HY/\3%'#Y&#;1&^)'4IL&SNK0C"^MGU-G3;-821V8#\5&[0XFS<9 MDR@VDY?#$R/77H,@#
<>5.%\AB6BN"-@"3%EA-.#1DYH_;6H\[J^T,0 ,;Z.&@ M;:3M*0,YA638.%Y).A7)W,:) Z&KB7#IW(OI"G6 ;(BVVQ&R'3S['5R\V-:9 MFBOTY[R-VI(;.$\]VF5-!:XS69PGD^1MKV^&TP
W.BX.P+Y#/131DR?39Z!G MM6*0QA*D."1(STX)TC<5W+U+-8=U5HM6P)$])Q M5M+\EN,-3BM.[%V]O7ZSGZ"6"(HF,I*4DH!5=SA)-<8F)3.@:JD#G49A+O>8 M=*9A<;GR:*1=GC4?0ZKV?,
8C(?;5AR:;I4Z57O>'<8(,F0RAW.0MG4===N: M0#;]=KL#P\59HMPN,BZ_;W MB@P#YXUA\GDO[^F-4JRO9\>[ZJM?:.RKM@DH4\3B)VU<]G1L-]DF@2VANO%J MV90\SA'HHL@
D4,HU4A=?"$3"F>;53'LY?QJAKJ@HP$SPZ33O[3KY9$4J?/A M:[U?+P^HG.UF7X5%O@0.TT]Z'B(G0N4[T-GU3OI@\)&A4F[%GU+XW8$)\7M# M=[?[6G,1/U+TR^.GGC?
2P4DO2K7$UNGDV&V7:Y%.;^6E9Z=3$*1\))S5?.!HX MO3QOQ%S>2?=[[V\AK^5HX<7EN](H9F@UI=.%-]:NAG*K)*7?.X*G" M.G?Y6ME"HCV"INP]Y"PL7Z4N9+&]
M_A1*K36+!LVNHX,"_]56)RP..8N"*#D@+UY;&GMY\?,L9:(N&)XUVHJ* 6IT MVUCVWZN9=0:,^=\N(+I]DMW[4!2=V4;D\F*$,+'2?).CRW_^(QP'KPY8D:RM M2 Y)?XZ_#@K:K>8^C#
[6[+VX9VGG#,Y6DLG:28-9JG8:&+)?OK;*W;/;UN0+ M1 F[FALI$;V.:;F%W#%^S&;W'OR9="LI:W9W7^O&WG<>N1--LU!&LCM=NI7 MQ?75[+PUG;^O\A!WYFV-.&T,4;QZ&UU54
ERR[8N(*@L5:6$P]A*N06[J:0P ME?@BV8UHE!OS=F[D]L3O^T;(^J<0&*WPKA:&@OU]5S"!.Q-AMPU $0;B\; MUMA6P$(@L%JH?$&XK%15,62=BNG6/&C_%G#-#2DZ:RU<8>T)8;)>OQLC[I6R
M[>Q/)+%AFH53;"FZK*8-6PGD-<-TV><+Y%:65QJ[S F50G4^M(W,5:F !1DC M5ZPNT>^\^F.V:^ABH4_6B./&4H&$X129U5C5"Y)S;8A82^BDY#-L#V9 MH6J6"
[O@4'B)>19:ZO*,':EC]B(\28=YP%S[;=$<2[H5N2(/ZLZ3I3LZL/=?^Z&8+F]$57'KSR7@!7 ZCV09#L@ M:YO>)('ID+U0\UO!N9$-5[TTAXVWN0%LEO%/*D7"V)G$L-?C3:490"CTI!
MS8*8@O1:VX[$"(7//Z03'T),6-;6HE9+W=H*WF@: W_Z]"= KK4P1!ZL-8 6 M^G.F+$+#&.B !?([3*"4 0(3#FH;B5%"UN(JJ3U7:;;\-#!Z%)U7K7%X&#L M+%7C.GA@,25*
(^=M):#0H+.H8/A[4:/W\7ER)BO +!%I"_C QP$&32U;RFYJ MCJ?2*$&*SB0K0#^RK6"84VQF=;U1^:"V@UX^_U-0CA:I=W) 0\CLL7 =:S3< MJW;8CMY_Y UTBWB6WK5?
C,C[AWLH_[DORDEY(TY"32MCF2SD(@%LIE&?/=;^IC;-M'*N7?<8()//=XA]S%(:Y6>M_E[TYJNA*P\.2IA M[3H70P\K72<2U0J!#IR2/P>1+9RC/0 [*X2N1CX+H9FH#B$ _64!XWZ_+,B
M*;6S$@GPL5,IU6TO1(>MNDU_/X>,IRP/XC]!:NU([UU3FE*U/=L+E!.0<=< MFT9WR0ME8(&#S)!:#Q;KW^N*$-?DQA4*%&T@02(<(E!-'3!J,3J@\?0#GOJ: M>;,&Z&;3SC?K\+A[@,I(
(ANV4[#.\B?1-;?"J8^$(Z0)>QQ1_<]D')62[<1 M.TY\)W9V4?^,H.NU?ZB$OMRLDP]9T.45Z@%0/OK%.\W]4;-"!"*!3UA[!B70 M7&T=5M@'+-H>H>1// _'&U9%W+JH.Z ?
(/E&I:R5[P<(HX],PHZLXXI/!!%?Q M-.)I-NVO)N, [K=]0>C6)0&/,"')>) &6#GF08C).7A9#(TWX")ZA4 MFP: M\DF:L&G $XR(QA'/DI1%Z80'P<2# ".=#P[/TK6+>PG'G2/'0LEW0T M0SR6RF'$ N#B-
9-HNB837@Z"6AU'$Z.GZ'<;IZ^8$=AQB=AC!:1I4GB!V(> MIBD-'$73\3&[\IS"@?-^?>!D_ >I^4<,I.&-/" 6+0@EXP.1LYU^>5^D%5%8 MSWS$K-L#G]I]
Z]S"!\2$'5>]SCH[(ZWC7+O#9SCK#'W.^?"F'O?Y:&U&C(W M6= 9O <*K\U38 _<12!^L1#MJSYXHWG;6H]"\]JP>X92'ND,*^P)$C1B:+F\Z M0C7C21*RJSSOC/4MVS>"J.-1-
N'3.&"WP$N@G#Q$58]# IJF]]R,<]U)EG9H MNG.;CS0>9_%&).ITB\H8YU'7(%O6:.[<&0(('2& 9(O#=@U_/ M'I!9'[E@(4XIACRZR8 7/C-ER1-+-R>E?!R-'Y0=DF 4QSR#D=N*[F]DD$[A M=
(+E(WK[&=S1<^!)>OX9#B1\FF3[*8!,&P?9#@H\ A2>2(+@)\%&LALCBQ_B MS0L&;D9\=S+'% U>,R<+-S+G!@JH%SM9D[&8RH_WLY*U_.7*"O+P1K0*DSC MWM(G3Q_;.@TF/$NG?
YM6KYA/X) #M)]DDQVT"L<\C:?/H%4T&?,(U>'=AA] M8%NB3IQ,-V873U3 #-37QT!N2H$;@NP)F(?)SZ,T.]Q';1[A:EV_]+$'X7!I M^$HWGSYIJ#P!TF?WOTH> PC>JJ&*#[FCEDFS\ MH/ON
(.-5%JF/LPIUH;7?MX-S%A>O?_H8V6']BNOP_4$L#!!0 (%*&%UE.-J"]K0D P9 M 9 >&PO=V]R:W-H965T\9VDFDRS:XG3ML/._L!(D$)"0BP "A9_?5[+D!0M"T[>L/-A_M?
9Y[[@5]MC'VJUL)X=E=I;0['ZR\KU^/1BY?B8J[S-1"XTUI;,4];NURY&HK M>!$V56HT'8]?
CBHN]>#B+#R[L1=GIO%*:G%CF6NJBMOME5!F%^>#,1DDE,@]2>#XLQ;70BD2!#/^:&4..I6TL7^=I+\+OL.7!7?B MVJC?9>%7YX-7 U:(DC?*?S*;GT7KSYSDY4:Y\)MMVK7C
766[R5V.2KN*TJ9/2#ME'XWV*\?>ZD(4 M]_>/8%EGWC29=S5]5N"'1F5L-AFRZ7AZ_(R\6>?N+,B;/2'OJG%XXAR[-M5" M:D[^#MFE+\! M5&.O7,/DY?CGYYQ[[AS[_@YZ7\YFW]?&ON/9A^X;E#(
M;#*/^1FRC6"(EK"B8 B=0139Y=(*@2KV(:0WB@<9'X5=*LM>^)5(U]W"0T8[M22>BSI6B];0.E.(\CR:Y%4?T.FN0+U9;LY8%!.'APAI>P)0E/!(V;)!5HV+Z MR ZNN=HZZ9@SI=]P4H2GE
Z9"XB36,9[E9'>'Z$*LR _J1<.Q()!@> Q'- MA]$K[MF:JP9VQ3>XYS7,NI, CE!;=C";9V.VD$H%C!&;% S22%BNC"-#:PL+ MR(?;K38UB]R=Z^+9;]QGK#H=,\'P5@[]#PCW[I'.-*$(T^_F2524*&:,
M#XVE'#_6P%YLI%^Q7%B/?L+$72YJBC?RA %"\)+]??Z=@CB!%86B*31:PA(M&*3%EKB95%K$CI2-L]GQ?-PZ>9>ON%X*]HGP<4B\.\9V/^]- _AU,3D^K@%M(J0 _; =3I-:E(#S&?N\QU!
VIF$5D=.=3I^_.'5='+R$^,(8E6G>DO1Z,MQ@4 1^2WC0'CAV$JH@BVV%" O=;.3(ZI:F:T0+F/O M(Q2BEUCHJ*1BW2!\B&Z;8(CI(D.!,%JW?39D\!&<*)4"-DQ.LU/_"MA;E?(-M^P/)S-
T9(\3W.$+-7DD-WN1',%1U2PU%.6X {Z!-$;WF,(H1802IS6\B6R MN81ZIIM0BK#-6Y[<"]_WA*PP$*>-,V.'N2FG55"R,]{(+2HP!\#W\(%6[4K!8 M7IL0-(+!ZAR3FXM.F[*DJ@IB>?$%LP;!,X+VGB$;
[B*1K6/B22F9(*R+Q5+Q M+\82T+[-U(_8[*/?LNDT-I#@DB0\>YG+FOMH*%&C2^5?2NL\6W%5AMK@"DV* M6[85^_49\SWV$\TWBR\(=LJU0YA9 L696/IG;0W1,6Z/W_ID(,_8"^]
MA7+VO@J1#E1Q^9,A"T3S$OE&8/ 4@]6P[1CPF>M\W]'91UW!';@G1(*.)@'_M,ZN&4\0901] C:IQ/6Q%JD >NI81QJ=6(ZVG42@XC93[:#9N:%IBMT?'[,4[MJ03[M\$8 YL=34].3B?30V1112PU+H+
H23XQX,"I$K;ON*$_1NWU[3GDO4 MO6*3D[@G8["MXR&O6I%5^+>VD);<#\U\O"0FS-VR4H1 GHPR>:I50/@6RJG MFF_Y0HG6,F 2\('LV[?Z7R,)E\]N3:,B,T-
=C8U$>MCY#QG&M%F5XM]V_1$QT+KF""@?@-K'9I!*.VEJ^ M:'OI\DJ_U9MH^<+39VDT0[^DVN+:"A$2$7TMM_ZPT@YC[V"$(N_H47UNCTF MX%W_
(@U49U";9M&AW)O:O+@8#+]3A(",YJWWXF%C>&'F;L MSS677<'.JO17$I\ . /)D+0U[Z26-G\3.J#59?QW!*Z+78H)R0S$=(UHDS\%73FC M9!$,>M?
5XVUB^IB.0#12E]T!N3W2/+8M^,X'>AE[T]C4637.,1 ,/B6$CL<^ M-"BC]"$@P!X44(- IB (P$XEX80]E/2*K$%[P=CS(..!Y>=>G&^5CF1:^#A6 M ![PM&,2(Y?V$C# ,*67R$").FG&W<:_9P%;LD
M6D$?!=L3>9BP,7J"5P,2XDB4Z";,J[U1=S)-V2^MJ?812B_;T=\4+#KBF:66 M?U*!MIO=?70,24A4?/!R"I)-00W)]!Y=L_$A2RU!O1&.!J7+AF@I3A(B$ KL M-;2,N#Z8'6>OOE?
4^YL'(H9A!X6@H&.)#TDE%*,](/A{}%VB-A=FG3#C?"KL!]ZS<)2T@5-CE>?]*M])<;TJ3UF@-20VSAL/.O:87,WA>7W+@D]V ^ZTU8L38FXVS./>J!L.4&K/DFI]!)
M*4Z.>/RT\GZ6@^[3WH._H7EV7W.*9%1)%.2VL7K#N1ZQ1V\N,8/.NUZ$"_H M !N'\?7:3@ *IZ=X@J[,#WKWX$ O@F=M%PM, \%\) RP]B,"P"-5LWW?, M4>\+=44=C,
[#4V#R!,_5G=/NT_]E_$+]VYY_#\\S@I+#(28,DML'6&PO=V]R\W H965TL/-A_ ?9Y[[@5]MC7VJUL+X=EMI;0['ZR]KU^/1BY?BXJ[S-1" MXTU!,;4];NUJY&HK>!$V56HT'8]?
CBHN]>#B+#R[MA=GIO%*:G%MF6NJBMO= MI5!F>SZ8#.*#3W*U]O1@='%6\Y6X$?ZW^MKB,M1)*60EM)-&,RO*\\%B\OKR MF-.'!;]+L76]:T:>+(WY2C?OB_/!F
P22N2>)'#\V8@KH10)@AE_MC('G4K. MV+].TM\%W^'+DCMQ9=0?LO#K\\&K 2M$R1OE/YGM+Z+U9T[R#=-VPS38'14%*]]PSR_K-DR2ZLAC2Z"JV$W MC)..DG+C+=Y*[/,7EXW#$^?
8E:F64G,*E3L,>8BF!:.\%7,9Q4R?$'/*/AKM MUXZ]U84H[N\?P:3.KFFRZW+ZK, /C!^D?_92"?C(ZX+]L%{[=GO0OO&*A:S3Q#ZSV+IO 60_KLO0M& X_T&4'&] M=C7/Q?D U>.$W8C!Q4_3%Z.?
W[&O>/.O>/GI'] &\\74S,D&T%0YB$%05#$ S^QQ9K*P3JUH=87BL>9'P4=B4L M>^'7(EUW"P\9[22=*"#=7BM;3.I^(\SR:Y 8<8>NL0:)8,.%3 M5O!^IV*>2,
[N.9JYZ1CSI1^RTD1GE(>9"X@3F(9R[E;'^Y$>HN_\]0 M.^UXI(@> Q$-!]&K[EG&ZX:V!72X)[7,.M6 C%"[=C!,)Z-V5(]%=^?Z.':,;MUGK#L<,L'S=0S^'1+NV2>=:.T01
MHMG/EZPJ4<@8!7AH+.7XL0;V8BO]FN7">G00)FYS40?P,JI,-!\E'JO,X>@ M2F!EB4@:O8& A$%:,(F-2:5%[$C9.)L=S\>MD[?YFNN58)\'X?D&+_S<7\. MR+^#R>E)-
AZ30804H!^VPVE2BQ)P/F.?]Q@*2#N3T.K{J4'3S^\FDY.?F8< M0:SJ5&\I&OUXQLB;-C@AVG#%L@:N-W(]+A H(K]C' @O'%L+5;#EC@+DI6[N MY(BJ5F8GA,O8^PB%Z"46.BJI6#
<('Z+;)AABNLA0 (S6;6<-&7P$)TJE@ V3 MT^P4/S\FS-T5\OY_S,\#=GC!*$,0WC DRUTDLDU, M/"DE$X1UL5@J_L58 MJWF?H1FWWD.S:=-Q@827)*$9R]S67,?#25]%*GN2VF= M9VNNRE ,7*%)
<=M>F^(L3YP.GJ0*5"3& M^Z-/!O(,#/;26RAG[ZL0Z4 5"Y@,62":E\@W H.GF*B&;<> SUSG^_D[*NNX M({ #[Y10H,$\F%(UG"+.^/H :E2-ZV$K4@7RT+6,,%BT&FD]S4#!:.3<1[-Q
M0V,2NSDZ9B_>2278OPSFM]GL:'IRC/T1>WC+-.2GUGPC[J4EM '7R\-#;[8@4lB!/1@ MDLU3JP; =-U1*MW=2BU50/9YJV^T_D83;YZCPAQH9[:64!-KZZV_%V^((G7_$C'1N>0**AR
MV\1F%T@X:FOYH>VEP^>K_%NCU9XO-'621COX3ZXMHZ$0(171VW[K#R/E//8* M0BS^AA,5Z_:8@._Z!T"LB>H4:MLT.I1[4Y,'!Y-)=I(0F-&\ 4XL,0SGK WG MOD00FI@RT-
+9#=*'F]":T!0<^4P+?S7]&1T3WC8M :7.8."\PP5?1G'4R=!8 M<*'9I+3W.9EVIM!TR17@/:?VC/(4(8IB7((?DH*0*H.T"XC>TS-C?ZZY[KF'\2MZ"*29H5*K0F5'R!QD/+#_ M!7BK="33PL>Q
O!HCZ!%+.\G9(392"F3AQ!QTHR[K7O-#DY>9:==']!8L0G- MM)2A$:!8,9)*NN3TV0$%{/L!Q8M[?L#*FH$ENV!XW3K)_S79V@E1,E:GI"&> M[/?&U-/6V}]
.*);4=NXORR9B5EF@W+MT+@5B35#?<)0=M(7X4V;4WZDZF*2NE-=4^0NEE M_J;@D5'/+/2\G]4H.UF=Q\=0Q(2%1^\G()D4U!#,KU'UVQ\R%)+4&^$HT%I MT1 MQ4E"!$*!/8V6$=<'L^/LU?
>*>G_]0,0P[* 0%'0L\2&IA&*T!P0?B,Y_MU.,"K!.&FSB/BJ*=C%_]8N!NE$^%_HB,%,^C+AR5I=.#X:UHAL_?%)3W=>><(AE54@6I7:S><*Y'[&; M2\S@L4Z['L0+.L#&87R3MA.
PNDIGJ#K]H/>/3C0B^!9V\4"$P!8.+P4WP!+ M#R(P+$(UV_H@5X7QHTNO:&%'3_\KCX/U!+ M P04 " !2AA=9:D9!D4(& "M$ &0 'AL+W=O^^YWZ0\MG*V$]N+H1G=Z72[KPU]WYQ
MVNVZ?Y*[CIF(33>3(TMNJUFX:V!X+,654(H4 M_<;G6F=K8Y{$=

U3N)XQSDL:,1VDK6$'T_YQ"ENQ9MC3E[>39V"P+*6G0G3Q M8,KKHRC4,>'+?87NU33L+^/U<<>U1LR(@I2204YDWFQV1TY 8NX9!N2,/ MO+"X.A";ZQV#B"!G"D181F7:81}$'5*R&1N-N N.;T+$42K/Z1:$K#)KKORZ M:2RU/Z$1",H-ACPZ')0.F^R%89 \(8=(MH[6X6!$ *3X'N^W$^2OHVS<8,_V M"HR[;8TMX3(9T^+_LUY:EVD[7@ZV'A38MJ.!NKO@4 _5^W3)/QHKP4 -?>MV MX\2C@.HJW3F 0^]8"VY!T+_14]!(.KW]/C+J(^'+PXTDQ.^A,MH66MAV/Q$H M*0&=LJS88H]G1*.D<[_%!1,][M#,0;"27CY]0#=NXDIK+?>EI/=M#4N>Y$HXH.GJ->VAGNQZ4_Q('5K!3? E(/OR4_"DQ&J-[CT%RXZCT?L6G (.A&G;W)?@)\YVO\? M'#WT>=++^81$SL["A(}CX>R*7Y.,UVTJ! D!0 E0P !D:%;"]W;W)K&UL MO5=,;]LV%/XK!VY1M(0B)30PXZ64=T*Y(L^UAV ,CT;96271)*F[ZZ_>1 MLE4G2[RL#WNQ#LES_\XY!$\V2G\V*RDM?6V;SIQ.5M:NCZ=34ZYD*\R16LL. M)PNE6V&QU,NI66LI*B_4-E,>ANFT%74WF9WXO8]Z=J)ZV]2=_*C)|&/TK],V9 M;.3F=, (FNXV+>KFR;F,Z.UF+I?PD[._KCQJKZ:BEJEO9F5IUI.7B=#)GQV>Q MX_<,O]5R8_9H!S+<]ETSA%<./+5N=D..D$ M]^F=]C<^=L1R)8P\5\WO=657IY-\0I5S#DO7PEK)B=.:+4A[;BAS1$^ M5"\-Y^K.@?+):IS6D+.SMTi5F[HI2'05O>NLZ);U52-I;HRTYF1J8<-Q3LNM MOK !'W] 7T'O56=7AEYWE:QNRT_AV^@@WSEXQ@\J_+EOCBAB ?&0QP?T16/ MD=<7_5#]*HV9:-,KR7],,\R5]-L_KPO#8.5^'XKKI6.S5J4\G2"7C%27\O) M[-D3EH8O#\00CS'$A[3__&@']=WO[:\D:CR^7$DJ5SB5ANJ.K%L*K6_J;DFB M57UG22UHN6.O>NU.'%L'-Z@=RD6Z]M49C.,81HM[DK6W-M(X8=Q 5[MW64\+$VWA&7G%N).N8WFIE#)WOTCH?TCHOR{[MX1TR]P'S>[M]-M)TWB&E:R6O,WS48K2Q7G6K4\@8^%R$\SAFHC+& L0(4*Z* IYS._?!!4K4<_M$F!6]=K VSA@24P\YD&1)! ,6%'-2N=[A;0;@ZX2QHA9EB(M$;YQP"%,%0J0P M=*E%A?L%=X\0,.N6U(D65<2@F2^:PR#&Z5)9T3C7@CC,@CR,/,UB%L!MT#P% MT@5_,,W_*(__/],YTA7':.@T Y6'+H2T"(HT?RC3O$B#/(^(P^TDR2A-@HBG MAS.=!%FPRY66\M:E0Q_<7+FUX]O+(_^=^@_@,=?;F2/"((Y2U^PY8O1C M!IGFV4,0QD&8Y,2#$&&*!HO3C)*@B).#(&)H191 #E8QOEC ?X!$&/R32)H M\)ZS%R-DKJYV-/H2Y36"F ,K/@2?P(VGE&"D,I>%.(1+N==$"TJ 4S[.A=I% M7#:]PP8PN%TGO=:JZDN<;TATO1SO$P444225+P35U)4O%6/Q&<8XA*$0"!SY M^VBL#[+"Y=3?:H(/:9/&UJU7L.BMN^C%G2!$^:6OM77M$6{F[-[@S8""HHJR$;K=.+SOI3'=>RJB7I?^0>P:#/-L>#6.N^.,M>SX\,^S#P_V]T(O:]RJC5Q -#S*DLE0SKN%56O_\+Q2%LWAR17^.TCM&'"^ M4,KN%L[_^$]D]C=02P,$% @ 4H876>U=HP\Q P '0<!D !X,"]W M;W)K&ULE57;CMLV$/V5@5H4+<"N[K>M;<#>;=$6 M"+++8,9*'H@^T/+.)4*1*TO%NO[Y#258=Q&ND+^*0G#ESCH80,_]@5H9)%!5ARX4*%K_^ M[<$L9OK@I%#X8, >VI:,EQ5*?9P'<7!:>!2[O?,+X6+6\1T^H7O7/1B:A1/* M1K2HK.*#&[GP3*^767>OW=X+_!HSVSP2M9:? 23WS;S(/*$4&+C/ *GX1(> MH90>B&C\(%6?&>Z?T'_IM9.6_=XI^4'L7'[>5%L,$M/TCWJ(^_XJ@G M]WB-EK,_PG'PS?(FH-UNAV#B4$KU##RY_$_G 54T2L!R1B0]+R'1#W+>^[X M8F;T$M9%BKROUF7UL_# 9,_7L&A.V D/5V$[&6WV4V M>_U2U[="T].01@=L*H^&7EK,0L]>YJW$-TYB>(_$F?BYKNS*B.^K0A,C\9?0KE2&BP!.A\8/R(MZDR.6%QUK\O789/&/Z[FQ&GCYYR'KG?#XL'#*H2NS MR7+YZ@1)8J2^D2>OG_\M2/T7#Z@>]ZK'#TG_IFC]-8GB;696XOL_&W63E,)J M'_BTJK4]MU*OQ?O1A[JEO71M0+@7C=]?'RA%U)Y$V)623?KALMUL:*W1MS.C_]8J"\>. W.Q*FJ MH94+=&$QASIPY@YFO"*WR#BFEOX "%PV>$L]$"'M)-,'!\[]-PR!\<<]1^]AO M%Y\NQ&=PHFGTG2=_9E5^)YYGZ\T+\?D*?F!:!B!@;.NCE(%PJ=>F/@X2,?3G,[-W-W(#^%>O:DU'F6 MFUMA9:YHAXG C[TPG8@DG,+'$9PU8V4OS,IDN''10MA%0#@EH4RH!/N9C@;T$C;FB$@;\ T1RD13G?(!6 MGD[I%K#93:,*;%[*>'X8B.0 \]D;D^6E*_Z>Q>+ZT+_H,P) ?X?]T M-G.^'[F^<[-+YP^YK>?P7VM4]#^.T8'O!>'LT8QN'SLFC4)O-HOW\KG[=7>W MP(X@-W\>O?87\SN!{$,QXGM$HCRCN^G4Y3HE*YVB#X\)Y1E 3)GA6G07HF M8J#D(3*(O# FB)Q&B=(U]-HEA(;A,!K&LW^ZW3P$0[7*B>\$:POQ!\28 M+\XW4JNZX)&R*@97+"=LIPAR(}9-L(|$"C3,-M=F,I4!6>-L?AQ+D"ZLAX+ M2KT]4X4R8J.1:UK!LLR8&JT!W;Q5=H6Q"Y5+998DXZ>Z-*FC@UN:,__6)<\PB>R[E"-1"/6@S2U!"6Z-G.1O M\ #5H9YFCQ/(4M+!D#\CTHUFWC1(^#@&Y&?@Z+TX#(Q$'[G)E$_"S=A%$FF(MHP"1,0&:.D)3^Q[,'!;G!90U\,;6TPU/P%&79V^-CP&;$H>?'G1DILME_MH$>Y*:.7YK1W P*[$!]0]L")%D!7-8&D>F0(0TX9AS%:85CD>SXJ MC1QN&&3[I23;"=[HT&1W[= M4.*=>.*2UF,\4M]P3*4ZS:PB6H=,^E?5U*6!$ $-!1N4[I]^-P%#HB68)== M:, 7*0O:E6+M5JZ25JZ[K1R>(:=?B.\D^U#!KU09>G>A$G0WH#$BT+3M#@0J M=D6;<*A"Y6"%]30>LX-Q4JUO"K^1.>JK)N>KN,<<&\O$/K+FBHA1,SK!A6\MR5<#C0U7.9<7TH6QX@SA&D?RJ&M###&O2T-9 OH5URMTN;J0VY+X;V2,-Q5:J M9=62%=H4^35'0[N$QS"%FT_2/#1;#, 7RZTS:+>)8KDG!!=N,UWT[;HA7;0L M&KB(\,0:PDRZO#>8;7-*&"]9A!3TA[ES<_LSW_7'%ODDMM*,&R[0I[$'^/NS*S4IN^2>DG!*WOTH(K++PC8 M(.A?N16&U^L.L)" #FK16+*,FD#,W#'CC03AD.VH:C*%0H#::X-L:&_ #$_M/7D:,_5L)3$('$'<$8W4BOK]H6_VH]PS"7*L+ ^Y[,7-+B'7VKUI3:N*1VY4* M' EBVS6#AWAQ)B%QK:'7:K"16C7VQ,D!UPO-S0QXZNH$6,K&B./01*UAV8# MGBA=TN 4=[B.,!I-R-]#;2>UQ_:<5&2=5FJY$CEPJR;J%"@WWHAME"V<>#! M]PL^S3{^.3ZA!1!TK9YC5F)&<0JNY%L'1&K5K)3P/1..&]6@+F _Z*.%3N M,V*R)943!0N7ZL<;CDO'#::66^4&'9#;"/41B!HRRY!=0.9C5VI+SGB(Y M>IAM=_5C+8>JM)0" J$5B'7+,U>;=_0'P>S80!Y@]LJ6(&].&H>YP_2ZV6\V M]+(3)78XF%P3\X])MN^<==MHNBDJ>:]+Y6^F\U3MG \F?!$$JPBU+8/$K>5'1 ME.XV94)'8&JX,$&\4%X+TZT$"/(4C=41R.>YL!AQY=K2(@!].H.PQFTM*=6" MK",%F:H'6K<,:%W3S/484IL-=-D!QVI4);?N5V;41A"L6%Y,W I"0MNTP0\V.ME7^,M^:]^:'"+_HZT_1'6D-#KK="W'1^GMVFX/.HN73P">NO+&GS·!PSN*. M+%G+':++KR8U@+0VIOM7N$(BQ["N1T46;L&H">52,N%)TG9*O3WO0*_Y5 MVTYAO8<:* ONE/G1[!M*<,JX7T7==]G4LA(N:,FB]V1LH.NV29DS.$*6]\YZ$'>M2V\<5]7A,91T$ *+3%T9922"0*&C4#O8">+6$!+*$XS>5860:@/+A>Z+HF MNE_)KU8$7=?@>@-57(K+)6U2 M'G#L,F8P(>UFQV-5^@G+S>WJ=E1878];0S-M]_<<7[!">P(.]18-PJW+.ZY3 M]S3\VVXW*TW]%RP:=MF'/=;5.U*>'TL)>[!QLHN5@WH !HUI6)M&RB" I5W M)X8:"RK?RQH!,%_^=&%I-X!)#/@'[*+6M"_"A=OUA$2;?1M:.O2ZK6U\.IZV MG4^Y@V$30;V8:ZN"$<>F"UPU9M![=F&>LD/>:L#+4Y8A3?#AJ^L/G/3,_S0 M0?Q"E#^ZPDS/^\;HYV=XA\XQ\]IFO)KYU_D:.7V3'3=)))WR2R\O M\]=G7$>';:[;@^7+6,<:N \)M,W[4HI+:&^Z^NDHZ O+NQQ6NZ5EMJ!5M*.M1?M,;I .+XPH(4<[JWS/>BZ=&NS/NOOX99A{>DLI7)#UCUH7 ?0KF7W&PZ M)42[,37H7[2D#[KH#$N9/M8CVCWTC@>=*WWT4G$[MA.+P11URMEM;L4VZ$&UQ$-K+ARKPI,>9ATYW0'EV],Q5&?=@!] M:'^ W^:FC-)IZ%.9VMLK>$:??\RFC./0GPTGV,N1^^8(O5E*+WOC67#/'$&, M)"\)XL_28P+7AZ0__#8JAY#W>*0L>(5^:*G@<++7O,?'K^Z<2 M#5/XJ%=_M]O<;"ODQW9=!'][B1\,SD-^?[T]ZRAQ&H4@ZD,W4GK%W7V: M$7O!:. I_,GTFQ6FCSVV9ZQ664=1*>/5'AQ//JZ6%+O.ELNE4Y\6;^A_5TY=&M9ZXZ/EWGP)M%Z5CKA#X7>*K6$R3@(:TG:;35>8)L3=N"D:3?K//$BX)DI+/O M34G>TY2.4B^8Q >U1L[{83+_1^3%TOEK'GK3:7!VZ%/#R\%'HFNIE_PIK'%[MJ^Y[T?YJ_[7MM?O(=/NX^U3WYTPOB09*N\">G\JK: M>LV'*YF!)^@!W% 4M>U..(+^&^37_P%02P,$% @ 4H876:(.:*PN" M51D !D !X,"]W;W)K&ULS5EM<]NX$?XK&)TG M[=HD$PB9W)WHA%'Z9:5-P MAZ&9=^W""))YZH2+O@$Y2R@2E5@5]FQN?ZXZN=#UUIE4QY4YX_M)Z/1RV9J%RG2@2E5@5]FQN?ZXZN=#UUIE4QY4YX_M)Z/1RV9J%R&=&{ON1G'^WUI:E\)OUT0I7Y,FTJUN5?5,]RK']SI^<+^3@^U M92GGZE[Y7\N/%M^&C914YZIPVA3"JME5[V9\<7M"ZWG!/[5:NLYG099,C?E, M73]ZE5[T1*:0RE7B2(/'G0;U664:"H,;7*+/7'$D;NY]KZ6_9=M@RE4Z]-MF_ M=.H75[WSGDC53%:9OS/+?ZAHSRG)2TSF^%^Q#&M?8G%2.6_RN!D.Y+H(?^77 MZ(?.AO/1G@V3N&'">H>#6,LWTLOK2VN6PM)]2*,/;"KOAG*ZH*#<>XM?:?,Y MZUNKT[D2KTV>:]L3 GCK&Y^,1*>%!)QIQY,]J"+N7AM5:[}>T3 MG6FOE;L<>BA"XH9)//0V'#K9<^@K\=X4?N'$T6]T^0]OQC06#&IK;B=!3X M<>-5XY9WO$>>6_4U(LWVB69<955XM\W4^[95%67;A2)NJJA[1QRCZHWO4/WXU?CGX\H.E)H^G)(>E_5OS^]$/%AT+\ M+(L*1"#&IR%P?,%4M(4%@M=>"\0HE]AR%1_$(DRGI0CYCI0A:)EADV.J]] M13GO($!ZD?!6#Z$065KSH%/5!PU-?P,UB'B,DUZ[F0Q<868QJT@] @'9D)@" M-I#8_F[%!N+33GV3REK\S5;UX4Z 304Y:3ZW:BZ]PB\;ZI?07^.FPB:H4)6D MW+/Q>' FICK+<'0X F(2I5)'BV2Q$E-C 1O2L4)"U3N6T*$F"I1.7B"%*IE M965+XQ1)BBZ$%"E*8VM'T*I$N@79[Z\E?P+ (.L4FH%^2^2Z*=S*B??*SI7E M\)=R1=*LRB0Y?Z9@.#U77U%2+Y@(X06D: YGCL%T4.#'Z"RE84+07*TUZN\ M#.*G*UX6=]W KZJ-2=)XP74PL,=/N5R1:8 8^)9E0\ EPF10PL*:M&K"LU): MWQ< F*FL2,$65GF.T3M$ @U8V0.5&L_-(!BH!8HPN[H)L%6)0M6"\ZS)&["G M1$ LR2^5]BNAG:L0.HB)474RXY#6&Z85$*R#B"LS_Y2R4S/& GM M\EE#!/V 2S CZBAY 8>&TAM*O-9=[/40]0,0'Q"KO%53&VCE^!"MM$S58&4?M'MO$.B:E0>ZH+U "T75*;&%>NE2FG9/^*TXBSM\[VD\%QG>P$+H,VK6(_'^1P\&8L2N6AF6C(6;*=:K0>%Q!35 [E94:U^X"[GDV M'IR<-C&,&\71I_AA_#PD.SI*;'8L?:6DA?DSHH19%<#%B2J>30;G!X1_H4M M8,$N<6PJ702:Y=')\N.1FO5-%K[W4?.1^Y#ATYA M3LR#PF=*9M"6#;0#W>]7A2DIJ#1#,&5(ZG!U7N4,*Y/IE*.8J0< #!G/*&-Z M4 &3!0FG1?WA{)^Y(S!&LPSR#0M%DM[0X,GHLRJQPW+V69Z41.46I ,'J,U&1X-/0\EE6E,'3!!K@G9/V7 1&@_.S MT^^),L:#8_IT% \'KS#U=!('01L/1J-17'Y*G_8MG_#R(UU;?7OW]UE8JSQZ MBH7=Y8]8R 7O/3 _/JEKG11>)Y_Y;##!%-TET[%,$EL]EN.4>D4..D6%F[<& ME)7,MP62LOEE-!B3HAC272AJB:=?4JG!$CC*RF6Q52TZC8*FN=Z55+[BKUL= MPHI(1KLUHSAS&H.K@,BG3T!&2&.FQ?=,AUU%6="Q..Q1W;*MP!J*:G+> MEL')MUSH!V:049'AY"2:>GYS,V;9DJ"*)ZN2*L/;6+D>)>?T55O,'Y*<>O M<01G;/Q_^U$_2$](#%89XA\F5>EC,IP_:5-1VUH-,Q+AL*2QP<2@'];"> MYE.X+N)OPBFV2W[H@[<&PC;I0C'9OZ MR8A-6WJ?G9\B7T0>"V0[ZN5H)W68 MO)+5MD%-=+G,=B5612L$/&SY=)EU1&S HQW4NJH$>[@NTRKR6AW__[2HH({,C32F*_- MT;6!JC,4\12%"!-&^&H@"%4[VLRV-->;0QN0FU3/4"%"RXFABOK*A:I8N. M@8]U&#L#!H@.T)SNZ B<\'21DKI?'?B#1CNJ[I8KIOVAO23KN4O&-+-((^XB!?,'MCW#@+0*YB#_0Q0-]6X3KNG>FI&=UP2O]P7Q@FFP=.&80 WAH_2GE/;-_ MCXG?TM3>;/?^7(Z6.%&P4P!NS;FS.31W!WX0H%!V,%?:C*,GRJ259CZNB5"M\]L= \4I@/=X!/ZR\E. !C^SP:1O<9%7P37$?=)\VNH?D\.S^-W>0K-)_] MN)(Y>M.'!_!R4"?8WCT?92PTL6M78?4517? MX*(0RG6FJJL(FD$@)^!.U5^$W?/:@/%9%[V/S*G?#-AON$4Z@,P=ETE<(C\DWE#O&Q\>Q3]: M#-.=W 'Z3[[?7X 7,J6Q8_"RL?QP2.3&:Q%I+_"KD<>'9CU+W@2I]!D:$+# MM_#>H?5HZ./HS4 >+G&EMN)9I4.[;U>R\ILZ)'>AE/-W4XNSPQKIYVKSO MOPFON=OEX3\+O.<,=XC4#%OAI=.>L.$%?/CB3Y/6X24.FQ?=,AUU%6=^Q..Q1W;*MP!J*:G+> MEL')

M)JRO@?5$]\E'G?9?W2$^[$((D!^[O@=EA(=!0H1@<9S1"\R5I:TQ?&82O!P M><>IN.-FZS+?*SL*3Q6$8^LX/]_K-[N95=#H\!A[8AR?51VEGZ"@T:HJBT3A/ M1V"'9\]P\&81G@;7QN-#(Y!S?-DI2PSX_]08OUZ0@0?4$L#!!0-(M %*&%UG/6BUIDP0 -T+ 9 ->&PO=V]R:W-H965TJZQ@%54CT: -M5U9"5E3CKUR/52,9S:U158Z)Y\7CBO+:,6L M%-NYXSM/$[=\76@S.5[,&KIF=TQ_:6XD_HWW*#FO6*VX]$&RU=RY*>7H=&W M"O]PME6#.9A(ED(\F]{^=SQ#"%6LDP;\(IBPZY861H@I/&UQW3V+HWA)4MDO.#O=P',@:Y46M56^_#'!>=Y(]GD8&"2O&9#>@%C>G2/+\3W5=#&38@O2;"..&=A0K362X[79 ME#LM<96CG5Y9,*F.G="P9;>W98C@93N'X4 MG<$I2>.SH8?7V7])ZT6191Nf)"(=VS!UR23LV<9INJ9+?#^Z#)T?WR3\;[MOF2><^Y'@+1OZ$Y3$-7MD9))$5A(O{(XAWK7 5BL\;M\>8V!?6[ZA)9XUU:7. M3.C=N;E=<]MU\.*W60/B3GRL!#/?B: W4Y#"%V_OY8Z?OI@;T=E-SAK3CO4C:%JX/E=@)D-$FL(#Z*R2CV4$2C28H).UPR)W#J MC7QRAH.W;Q+BDW?=E)<,IRY?WRGC+8Z'3FU]6*>_%6*?U*.!!E9@?1A_86S] MX7'ZY2#3X=2!UOY-F/{0;3!Y2I-B @BC$[=Y>/!DPL;SIH^+!66(7:CIO6UGIV_72^Z}INS>O?P_4SE MFF.B2K9^4\VTB1R0W6.R=E]&BL0^XI=#X'+3# M_?3!H%9%)O+CZ'^_@Z)? M_102P,$% @ 4H876>[6&-ZQ" 7Q4 !D !X;"]W;W)K&ULK5AK;^,V%OTKA)L6":#:>DO."\AD9MKL8IH@F6X_+/8# M(!$¥.[+DDE2<]-?ON:0D*Q.GO0+]8E,B>7GNZ]O+G6X;]46OA##L<5W5^FRR M,F9S/OI8B767$^;C:@OLVC4FAL\]N5,;Y3@I=VTKF:A[Z>S-9?UY/S4OKM1-MYZ=-;RI9BQO%=+M>< 7T3E3-]FP23/H7MW¥Y,O1B=GZXV4MQ)\ROFQN%[!D@ MI91K46O9U$R)Q=GD(CA^%]-ZN^ _4FSU:.QD_NF^4/(5^79Q"= HA*%(0D< M?P_B4E05'0*,/SJ9D^%(VC@>]](_6MVARSW7XK*I?I.E69U-\@DKQ8*WE;EM MMC^+3I^$Y!5-I>TOV[JUX7S"E-,9MUM!H*UK-T_?^SL,-]0^ZiL"+L H<7M M#K(HWW/#ST]5LV6*5D,:#;RJ=C? R9J<]!=*WHI HXRLE^R_%_?:*(3$__:IZZ3%^Z51FASK#2_$ MV01YH(5Z$)/S'IX+4O_D#:SQ@#^5^2_HW.N3ORF#]*S680&H;SB5K-\@.LO+L M- R,/1/UKQ&.MK5?+-1+#2]6GIT*3IB%F+)K@'2"O*7'ZZG[#?150O!,+-M.MM97+UJOQ:O M>Z'ELF87+:+5*N)UZLJZJ-JR,PPO'^B@DFE9R:(AQ+3-8P]"R84LG E@\+(M MC--+P26!W&/Z21NQAD CENK-E:5<2L,KKV,/[N0HBH _:"?$F#)9F&*\6? MV."FY\NCMC598>(Z69AMER)KZ#UKZW(%5>E?>AA>!02[0(YU2KK_7[U,YP- M7*9.!K]VEKNZV6NQ87:0,66?5Z\%#]8\2!"0=3[DMQ3S,R] A+6S990]$ FO1':?IR&B5T"37&@BG-2 D7X6AE{(S9!RID%SAC@^1U MEBJEYLLE,LRB'XM6HG+'FJ8'31N6@B)] \]17F+AE%W55JHJK5VVTJR(11#P M+!QU=96T1@,PNKP_3,GZ1QD(MR:4L"}=@ MP^P0VNXL!*=]V!8(6YDIT$9A[YAQM\.?X"8R_Q[(6HFJ'JU_ MX5*%E+I"%+/NR&=!U.=BS[5.) (+ HH"1C:EWH&?@I8%^Z5!)D93R]:#&M<[MD9U).)DF^U\.^ER.]?DX!.O=3C/RQ\Z+\-A+#B.ZXP02(\%H7U>*8 :5W3V M"PS__T59QJ)1J-#.^^FU;"!/F*?&T-8!J*\[<+F@ 5>$B9>%L_M.$IB+YK[-M&.,=>/ ^\.*%QY.6)[Z51P"Y>2PV6!KZ7Y',6ST,OFP>0E26YEP,*!..8B[)] MN[O,B7WV/8M2^IGWHQ>9\QRVGX9>FJ9N[,=>D*06:N"'WCS*,0YQ/-3+_#=@MQ[*OY6G,8L#W+=@PR+$GQH@DY6_##H#3_CC8\QWLJYLOW#B-/#^/"' L&4:Q MLW:.HX+0J!+8=):%@[2N9>%"]#O\@H(^#@4 .1A1R."*1V]Y M)TLM?,PNOCE$T"%2=!J/9.0R0D7Z.01)Y49!A$,7@-,$S=O1)%??AB;OH355HI(,EY MBA'A3A+?R@%YTNS[5^.*_19(-Z?5(0D@0%GJA9F5!#(+HR-HNB?T[.4@"$_LMQCR;'^U>@+!+OC'"\NOB4N<4S@I=82L9?'A-1\GV4!#;P\2'KO[7%6E(JZ G)1 MY(,VLXZ$@7ONDPOS&%P&"OW<-WME ^#$*6@#^UAV_D 5[,,#4=O?+(9WX[:.M%>ZOKA%3=]%MUE!U]UZ5W7-;Z2YA5.VI-QHWEHZJ*1\XI8(5KKU= M_TK)A8Q5Z! 11%/3"5/+LL7QW=5-"VYT?U<#>+>+1=CORZ]-RUXW>,>1T!!EH M!$!+2+IRU)NZI!6/1BCJD=VEAAVVWH?TQDOFJ!?:TESMB49W0!>]$F__OP) M=-"-OSH>.8\PBC.*F"1%G?9]6[/!($$A=*&5153/_:A5=*&!8@PZD("FSSH M-5 SHRQ#@:W88N0'=RV%K H653-GCA/IKMEKM/CY!LTZ+1""RPU9]FR80!SG/ M/9AF8S^AH?%']-OA2G^D(BW_*)!<]XIT'#-]7S_P-02P,$% @ 4H87 M6?6$!'E P ,P< !D !X;"]W;W)K&ULI55M M;]LV$/XK![4H;$^()$]RY-0VD'3=E@%M@[Y^A;:!EL<64(K42#I_ V.E*S: M0&(,V!?QCN(!}SQU\K@X*/W#U(@6'ELAS3*HK>VNH\A4 :,<7*D.)?W9*MUR M2ZF]>1:,3R#<^]!?^9U/&\]HP^-9U/&\]HP^-9U/&\]HP^-

[U72]JQ=8:>/.1;R6: MMPO?4AKG[%<3Y&:$C+X!6<)[U=]#@9_;&NO7\3[1FSE&)XZ;Z"K@NU|>0!PR MB((HN8(7SYKC 2_^7YH?47*+-
=P+4TEE>HT&_EIOC=5T8OZ^)']$3RZCNUMT M:SI>X=*C:V)0?T9O]<-W81;\=(5[L,G-/KJ&OGNA6UK U$4#MXI<.<%>\2Z;NP METFOC\K=Z@U;7-%+.E.\^%.=B1@19-
9"^D@Y#XQ6%&_XQE9?8US[Q@ M:9)#F"8L"XI989YFK"R2I2R*'8^X"*D^(5PZ_Y9OVI0[X>N;&"0.K:N>79N_:NQW_WG/KX:[!G> MB!: Q!V%!C 2S,_AZ@M0 M2P,$% @
4H87608&ULU5E=;]LX%/OTK4^~ZE=!89<GZ* UY+PF!V51]?/1 MLJY7IY.)R!\:9.I$K'B%D;F0):MQ*Q<3M9*3B;,46_(:7?ZZ^2=Q- M6BFSO.25?CRHZ?
M4SS<3_LKYG>I<$VW)5(@?^N9Z=CYRM4*\X%FM M)3#\;/@5+PHM"&K\W<@9-_:$6EXF"F7^D[MFKCLBV5K5HFP60X,RK^PONV_\<,@"KUG@&;WM
M1D;+#ZQF%V=2W!&I9T.:OC"FFM50+]JT4&YJB=$* ML&I&?L_9-" R.N>*'-VR:<'5^&Q28SNl;)(UHM];T=XSHE/R153U4I&/U8S/ M']^?0,U65V^KZWMO4.!OZ^*$^-0AGNL%
_+\UG;7R2/,/M?URS_9_7DY5+0&< M?_59;X4'_<)U.IVJ%+.4LCZ^Y.(DU[6&]K[K40WUF#&\]TJ?06\/Q#ZWF'-MU$N.5"G<@/&Z&Q5J23&O\[H101HM:.Y'OM"!,PR$ M%
(K$3A"$A+:+M[_Z>41N1Z MN(@>;W.4CNVH[WIPKUP)"4>"N*8U43Q;2PMUZ@:.%\4D]!+XV(>3O6!LGL9A M8O/C>,JR'PA!9Q4@X<%9- HP7Z)QOJ9'!-=33T(2/ 51SZ6B$::HV.
(FH4 M"P,G*F)ZPWGY*N A&5(D 8:H1Y+$<3V/A,?4;09\OXTB M_3\)R-M%_:X= (9<'_^3-+6^?^3ZK9MM.O^1U6(*_S5&^?^G&4U=AWKIBOG= M3#LDC3PG38,G^;S]M:,
[8/N0Z[^\O9WV7V9WB$!ZCQ/;)I#..S,>)2BXZRK/ M\A6"/Q7:1R$-GUAQ1*,Q"8"2(3+P'8\"33XY"D*DZY&?1IH-/. U?)X-L J$ MZ"&;4\T@:3S6S]PXZK*!Y\1>B"L_,$:XAI^.0MK0
74B/_U?T\% Q0W;BAN^_MJN(Z_77W.R(K\TM+6X_W%=S\:?K[!LUF-K?R:D%JS5ID)<4FGVF60G,,JLO0 MM3#3Z4+#&S8CBf\%RIZ$9SZNL6*-!(8M'6O.T'3K85$I4>0SDZ8-.Q#3:EI)
M I-5C1\;H48;,F^8H8=3I_FHEP_TCD\,>J,9ST^=A(;F.@#>4A#DIP$CX=85 MRV=&H## 8(EQ(!3!M(T0%$^G^0#@JRBPM1+6Q>-\LCD(2&^-7A,3!F!)[C M!ELS(J22^QH1GFUQF.
(TQBMH??R M5L:4,'6")+*F!-2A24P&4C!J4S Z. 4_SNHJ0OD 2*R8PF#LJ^B M.O[5;ZH#"AQC+MC4I@3./<9\A%-HB_K@!TH*.3.XU>1_Q^I6T8.Z1"B7Y#TC TS9[CN;;?
MH]35OSZ2RQM"0]RK(SX+B(8#2@3)\^R)5BW3CLP\[GUSN?]X5\>)];&YFOD M-UQIF7BJ7VV82O\1,G!NJ1KPY*6WUV@(%0*P4LV\H-J+ O1>-4)?2T5[.;JT M";XP?
=83S4U^T@CMA*6:*(I,B_]5-U9MR=2G$B>.$M-@X.B0C .4L1&;+M#;)1D5[H!L[SBLR>^R@/=:!MQ>/@'AJW;YI MW;YWNX>CK1M9O0_ OJH.MW(H"KQ7'*995*7A]+S/N6-
/AJGB<&=*YZ;=#9Y@ M^KD]T(1'NA$.4OK,'C0 J"VXW30:HIJT!6YZ,'"O+=_=:,F9_-Z-YV4;3\NB MYFV:(5)-]OTH[Z:")I$.Q#^;"';0[9@\A?A;=M\'I&$[#L!PB\Z&GW8 7;0&
M%;U!+X/6LN+SD+3E0F_&[6_H0/QJX>G,_7BV\WI_TWV>-_6SM.61F_*(%H% #MX M^G[?>C"R'H\V.N83RW,"<4< LDUD (%=!0 ?L+-6+-#X1*[21F?-UE_(SL
MKU'R*+6Q&Y")8*5I\0>N:$9^]A"@W>")0B)%63&%@6;LX2BTD>U!+&U\A9W MJ"6O)#HCW[4!OJ9R2>!SQ= #W1!GNJIAC:TGGI JY5QN)D4X>3<!RF22A'02C3F-;FBVY4"<*
M1(ZN/(-4>0WG-7;=R/8=KS.U(UYS47)!%2"+O8I(G9\ZC:X3V.$PVBCNR"9& M)S%-GC#./3U,F1^ZW;8=\4Y 25EJBH;,:.B"T)FD)N:8:"Z018MF'=U)06 "_M-&^3!$E%=R>B"^P@'&[
;8MU@C->+.J@M;9O8 Y"EV;"<_Q'D]143)G1HME" M_-#^(RZL;78CG5U-9N/R' TH\''FAB/;'WJ]l/>;l#))>*7) MM:1KS:XF$C1)1 5;;?3:0!R1R Z=[;+;7=D-
Q)I8Q!V+2[^K7!:.O<43\R+,= M5\>DU?H:V[!+(A\3Q6/TO>$1_W_-(ZYCN!ZX/_D^)O'L\3CH-+:E?\0D0WL4 MC3<]MRW>5@5+6(DQB[GYOAOOO7GAQC'0Z[H-?
6._"+C^+83;BIR1_QAC./;_MP=#?@-L6OY]QO'%HNY'3C=]@'*0YVS>,XSLA]I2IEU%D.I'H/V,X6/"!1M)J[0&W[SXVZ-V?"\GDXH7 M]6AQ8I[=]_6);$U9U.)",=U6%5>;3!8G#;\15\)\
M:"X49I,>)2\]4>M"UDR)U>GH++#@^3VF]7?"Q$'?ZT9A1)$LI/]/D37XZ\HF0 M*$5F"('C[U:\$F5)0*#Q=X/Q%OVUC1VQ++D6KV3Y]6Y<_<\,6)DG=,T6J@T<"&:JU!KJBI*%=&XG5T:.[-
X*Q"29B^N",(4^NAD M8@!*KR99!W#N .(G _;LG;S-6K-ZSEDN_83D.D9A5M&Y^$@X&]M.6.3P&.A M'T8#>-_/)*PJG%FPY'^.2943?
OU*$8'$1V&H(UQK!N>B=,1E*^%NA6CQ8_M!(G_TP#!]"<8#:$OKK#1\K843*Z8)>NQ5U*;0S2'@:[7@F6R:F0M:J,)3K:* ME03)Q#VV,?IS5A7U#3-
8V@A5R)S9B&HC%#5\RE;S.M='[#U\9UAN3^G00BO M2V5>XGGE[+3':C1:>M,N'1(09"7&EOL38?5.&KZI;&F-Q!*MI<)PS8VM7"T- M6Q7WJ(14Z$ODM*@M&A8X0'B"?
28(A.7@.T;-4?T'X$85Z,T%*IE)-%YMN5)O M-Z+FL/2P @>",AMF^#W%4]2Z5?2*3

[U[^VA\XJ_DVVXQUI'MG.>V_HJM>C?Q&Q8874>V>M-MX[S7D9XB<7CC>+A0?%>_M+OC2O&_KBE)*6B&J!_7W.N?EQ4[P';|[ZK_P!0-M2P,$% @-4H876=SXL;.B-P-Z@D-!D!X;"]W;W)K&ULK5;;CMLV$/T50@V*!(A7-UN7K2U@UT[;+9IVL6[:AZ(/M#2R-MB)5(A:3L3;Z^0\FKVI9LY*$OMDC.G#ES.!QROA?R614-FKQ4)5<+]]"ZOK5M-ME190474C;N"XD@M948U#N;55+8%FK5-5VI{C!'9%&;>2>3OW*),Y,'3).#Q*-MHI]JHO++/91BOI!_,9^;T&28VZBDS(&@LF-M:TH@(B=KMN4L9RGEFOPF^"2EJB/&BI%*,_(DM9,TY&RNAH"CC=@G\-M[0HT9:5ZAV%,;,0)-9'K/95`KBS&K32"]DT"ODKL_HZ0)OW[PC;PCCY(|"-M-J9]+FM4123FIT>|+CO!/-N"!"3CQB^4.0#SR-[];=1S%Y1[U71>^\]X"]-M>4-\]SWQ'&\ZPF?Y[>[^%3I^O\%^B^=?WN!:*-RU4S+)F-\>W%[-M_OX5,;KM_6=,T"[@=#R@:3NWJJ8I+"SL*PKD#JSD^^_"

Q$FVFO-MS?0:>G)7";G95]HU%"SD##!*RMJ)LW>U@"]C-B3,,:B'S2X(-J!7KT)'019D?$-M/#?PSM@/C?QIY(Z3#WKRP,<+C?S3KF&PKUAXJ5!:$2V(V&!3,%?##K-BB2E-MB5U^-)-@F(D3.=%9*B-6KA]'X[F$?2[AU5S66J3/$W-U&.X5=CQUL5["-8%I-M.V#,YI#JROU$O4THZLT5Y"#E,B1<60)1-,7&)4R&D1WH]B/SS@.K4(-NJ!D-MW%,,KU)\;&1:H([M75%+4]38X\TYA,\-J_&MH,<(QX/C%8?G13RT\?S9>1'; M1]=F!7+;OB84;FK#==?O^]G^P7+7WM-G_?XD.G>'?_!=*^@CU1N&;;4$G*$-M=&Y"5%!V+XMNH$7=7'LX;H?&J;S\+?(R!--XG@NA?P(P0-#-5-9->&PO=V]R:W-H965T[]K5T6U557UAD@=6J36S.M=F!7ZH>{BRR3^R[9E/QRR3":'PS)'(MTA3S]T=-(V'[B^,ZAX1M9;Z1N<*?C+5[# N3+]IFKFENJQP"0%*@BCB,-JXLS\-MA]#O;P/3XW<">U$I(IV4)6.ONO(43QQ/SP@2B*26P.IG!W-($]VDYO&]$'7*M.,;5AM7Q0_V06KQ:SQ-+F+/F#Q'(S<>X=%,,*9XG\QO:_0+$@,\&()<\)\HWW1-MUW-0E-G)TL)8S2-E-/_%;P6(BD$07##H%@;=$X-N]X)!4!@$_]6@5QCT#)E\-M*89#B"6>CCG;(ZY[*S5=,#"-M5H^H?-I_7TBNGA)E)Z?/0&-"UV@6?<-((;_-M8*LTH^)=H(\A2$P2\1/Z@%PD-IB#0(2B%T]DN%.-JOR5)(DR$F-7]EN#3AM6/IS1CLH\,Y0U^OVTP?%!IFP7>83-M++O(#]HD7(6Y9-TM67>-,)N^"[B,G\1K0G*4ID._#,TG":GXNPEE8!.E3;'0DE@-9:]$V6O=I/G60RL=\]6U5O7;U,LM"16HSDH:0[LN^?-)DJ;8J$EL1K*-M88ER^-#^Z9ZOVK4QMBH7#,R_N!9>-<^+YD=-_*;O;KXL_%'7JB44-NNT/P%FTP-M51&R-=?(*I<=55AYG:#7/V75.OK-K"RIU5D=$PG_2B;1R,JD36C+203]O&M-_MI!Z+-6IATVAXRLQ[@F!+K<[LF"+XK6'S!6:'|Z=*M*-7)!E:-B)"9!-CK+JB-M+?!(!7]X;0*_O-?A.8T1RZ20V*30C93S*6G/JFQ.?Z0_IZRM9A"VU.JLCSF$-MWYY$Z/"9T/RH6X':D_@=+Q-H1-00O_?/3SJ;B45H2ZU.YA;-->3BRH=%9<-MV5T$U#\#-.J?\,&*A2R_FXE=LI?9?X%?,UH0(EL%+R7F>H1N/Y[5>D6QK-M+JR63$J6FN(&L'IWZ@[J^8HQ>:CH.[#Q8U&+U!+-P04"-!2AA=9KB?!-MF_% 3(P &0 'AL+W=O $1X51$ANV:7I&@FDZF$^-+LEL^G!),OC0EMQR)+$DP_[8@,3O.-M!M;@L>-CW>UE7F#,IP>\(W=$?C[<M^)N2HSBY1GE3UHQ]R6]6T6Q@YC4B,=G('(`5OWNR)'&TS-SR]-M?]2'1>-58]98D"6+_Z&1W,\&XP&*R!9GL?S(CK^1]D'#G+=AL2C^HF/UKCE-MFTQ(EE3&J@8)3$?LR6$6D?2SQ?,K9$?'\;47++PJY"FL58)KF/>M.NQIO?U$8V^HMM8-MA\;O+"UP-^S^-HYUGMDFI:+/M_YZ.V;M=SWU6IZ/<308_Q6U49_;UXP*FFO1@PQ@:A;J,7]MY$N85OR=NL,Y!==YJJXGND-;Z>MX'IU<#UM<#]QG I*=7K=+:A8YKFMDQA[G1JZXZ"+FO2887:EKVR4X[JN(VT<;LCG!*1CRBK-*+W M-,IP"]#*[4>ENH1CE'?Q-(,7:VC2P<92)@/"0L@82$0K"7]N)9^#+]B&$.* M#GS(6$!)"P$@K5$23M0B3[3?]U)]K#0BO-B (>F/DEO">>-?68:%%72HN),R? M=(?;X<3I#+>0/D,@6$LVRVSVZ96N%4]<;JCZY@@+ 3IG] JQFE<1N-)9T;3 MN[!4B_.+13G+:0#]J-(2BM45IT@Z6 M=L-.?QGO$7DXD(TDD=+H 44DRM1JO!B^$I:ELE+M;] M+*F M2R*U@6F=-BUJM>W%M!+(A-,5WES'2X,2ZX(M$@BX1&#QLX,5)(DDB77\JJ%&,Z<4'E\?Z,]+YX4S=YC!BB3?XY!O%\;Y@4+8 MX"+A-V3_6]'Q!(7D(25?]&^MK4,%!2,D[06BQ6D<5,]XH?96,-QFO[@ES^WA]>^,'Y^$*;KFD+*?]JQ7W)&:*^OA!V*]4X5<)\S3"?,UP5K)&37)&0W1F\,< Y4'4A1Z=/<;Y?4QC2@I?S?Q_F]B#Y]T/!XW'H\'/?:]2Y5'@Z>G]C6=,$\G MS-<$:T5^TD1^W_JM4Q2(FMH%'XUZE0(M9TS[E02-MKX_7L?-[>).INDC81U_]F-)I=O!SN[8 M=6J%>=0T28%&9;>*H8 4&:.^^AYO1IB-V6?:!.N-7]L7*5HQ[LH-6-FD>\57{M[3.F49PQE,!&3"7>=L2+/(*TZ6M4-)WG9LKDCG).TO-P"#H%*_%\0P@_W,@) MFK[B\@]02P,$% @-4H876>O3(+^0 @ >P8-!D!X;"]W;W)K&ULK5;1,P%/TK5IC0)HWEJTF[T4;.6B% (*:5P0/B MP4UN&FN.'6RG&^\>V\FR?F2%!UX2?!QS?.[QS)!%@ *9\4R9E3*%5= MN:Y.*RBQO. 5,+V3P!'5?W0H]/,>NGRLP)13:9^HZ6(! M!Z6U5+SLP%I!25C[QH^=#UL ?_0"(.@ P;\"P@X0VD1;93:M!58XF0K>(&&B M-9L96&\L6F=#F+G%I1)ZEVB<2NY@ ZP&] 8M=8%D-07$X::?DMIE42O*#D8TTO4.B?H\ +1@/P^7'XEU3U\' 7[FI/>F."WIC \H5 ,287O'SV MHR&]0'-[+2#0C^N5M.L A])M^4?# .;KO){53F'FZ,]/@MB D[Q^YVZ'D M_Q/9CA5A;T5XC#WIL\>V&LX1S64<,L26Q;3/39)?!E.QOHR-]NI'(:%X^C2 M>P[;$3G]18Z.BKQGNCHI9+]U!$ V>$5AL A;EFC[]##VPCV-AU&QY_GQL,2H MEQ@=E;B '(2P$FUM#R;.!W)KU@,MF3Z&ZU!M.6/V.0)DP8 M"KE&>A=C323:5M=.%*]LMUAQI8O<#@OI=P!A O1^SKEZFI@&U/!ODGI02P,$ M% @ 4H8764#F:5/!! 0!X 1D!X;"]W;W)K&ULS5EM;]LV$/XKA%8,+>!8HN37S#806QJ68<&">-T^%/U-R[1-E!(] MDHZ3_OJ1DBQ+#JO:"3$T'V*)YCUW]ISQS"-'>\;_B W&$CPE-!5C9R/E]MIU M1;S!"1)MML6I^F;%>(*D>N5K5VPY1LM,**&N[WD]-T$D=2:C;.R>3T9L)RE) M\3T'8I49:%<6C'W1+[?+L>-IBS#%L=002'T\XAFF5",I M. XM0)U2IQ:L/A_0?\V<5\XLD.S1O\A2[D9.P,'+/$*!:A=8U/0?<.%05^/% MC(KL/[@7*#WO]SZ =$X(Y0JB:(MD2N5'1K-C0N=TURG_PV=.;AC]=P($*5+0^3$(A\WRPP9Y5.E?DN ?2)CZC8"_ M[V@;!+%?]_ &0&.R9G2\>F-QYF.;HU=IK9 1E1@097M"<$2WP@'6A(>D;W&.> M)40:8 #G@I)UEAHM$#UMU7K'2_ ?2?0\M@)S]958H;P*?/I#88-;B1/QV90FMN2$=LR&Z1%Z++8KQV%$U4&# ^B)W)SS_!GO>+*48VP4*;8)$EL%HT.V4T.TWH MDYE:*5R%0Y45N2D*"N8M0 E:$$KDR6:X67:V5;62NL MLE90PG:I-#&;J^A6O.P/3[V<-=IQ*;.G:(PL:.SQVBMY[=GB-67!5:Q'*44+ MBIN(IKU,\/T8V&74KT.1HC2QIK1/=+!0VN@%;C.4ZEVCV:N.W50%AQOGMW M3KAMM.52.L_1&%G26.-V4'(I:"Z]:$LDHKJ@=OA0AF,FI$I:,$S0PRN)9*B-+*FLT#DL:AXTTWB2,2_(UWXV'49-MEVZ<[.*%E!%BVRAU:-< MZ<[@C[(9+RRQ%5.;:*%5M,@66CVF_C&FOJW?7'R(J2QC*FHK5PD29MRO?\<(MZ(,D:Z*-P6N4O3AXK[MY6.+##L_3)&UV1_/K%5M$B6VCUF!X;@8-XZ&^'LUNX([P^=W]'>)KD@I \4JI\MI]56%Y?EV9OTBVS>[C%DRJM.&2/&XR6F.L)ZOL58_+PHA64E\;3_P!02P,$% @ 4H8769SO07ZK @ MJP8 !D !X;"]W;W)K&ULA55M;YLP$/XK%JNF M5MH* 4*2CB E;;=U4J6]?;V"=V_WQD2EJTT_0)^N>?EC.^(M&ZD>=-E@R&/%A9X[I3'K,]?5:0D5U:=R#0)WO%="L:57<]3TO M6"&W<WG(ZO:0%[H]W![_;W#&7%=5P+OEWEIER[DP=DD%.:VYN M9?,9MOF,+5\JN6Z?I.EB)QB@)4OLIEOY92?O MOR_(I=2F%*32Y%!]B_>Q53Z?/Q=/DO_(.&7FI^28/2.^)X?DONI"W)\='* M-^C/*6AY@!?.Z<>MQ"?>B(;]I.=0QAU1.$QDB^Q,KVD*

K2(/:@)\)?3.* MO \';(-]S? 0>[*$@@G!1(%7E5.1PI#!CB)]*6S1;I(@"',O&L?N9D![W&N/ M#VHQLHS92AN\!AUTO*EZ2;_:=^)%UX#^AG=M_)HJO(*:M<,@1ZIU.,&75M<9N8N2Z;4&ULM5E=;]LV%/TKA%8,+;!&(O6=V092!VTS=%C0I-O#L =&IFTBDNB1 MM-WTUX^2%*E^7MBV2 M-OYQE>Z6LOBACV;;/"'*W!'Y,7/+U< M+*?6%;R\%V#(I0'QAZ+P/Q;@5KU.PO'X^MG\(E\'J8!RS(G*5_T85+3ZW(-@NQR-M4?F7[SZ0*R"_P M$I.*\B_85[..!9*MD"RKG!6#C..'7_R]2L21 _0&%#&#=@/ZQ@ULYN&6@!V9E M6-=8XMF$LSW@A;5'*R[*W)3>*AJ:%Y_Q3G+UE"H._?O$V&)/TQ3@?`%N=/-%^!JXQM,XE3'2^_]SX4!$Z,.K0T9F[L MAZ&>55"S"D99S1DG]H+LU J_43F4)%GG+&6K)QW34:A3H[,XRM#TWFP1!8*P]1G8?(3)E'O*'0.:?5>5^257VM5B5T4=*M<9Q?$<3"00GBD_'"\T,ON@G#5 MC:5E]L2:,O2"/0ITZ00VA=8.N]%S>%9!AT85W11:.Q>-ID-#HE[A'$]"5TFEM[W4G:]\J:D:N0.3M5%U:$[685^OD8=BW^-^2U=BYT/<'!!0VN@Y?*>RP+!EJ M.8]L)Y'&+/#5TC# JU%V^)*TYY*KC1/@Q>9&]$;]>?9KR1H5=U-H[=.;>8=G MU?=H5.!-H;5ST4@\-*3QL*_>, Q"@;Z#]2H//!7^7N.%T3MX!]%N<67Q1#D M."-:I1\.WF_>@ZE1T<[]_-NWF1(Z5%?P2&*45<[7S1K\VQT M'IG3>;39EZ,8=EJ?*57^M?&]VN'NDVIP_,&GU'+^@[WE#%MB?Y0R1-L*?>8$U!MY3.22Y P(?5U;U3K3:&UT]!H/3JKUB.C6F*K9V+1NN1 M(;T?QSDYZGY'X#MA/+0\- T!,M<0C$.=''%&_;1B)R&VZ!O>57<.XWZGT*[3C M-;G;6MA'IPC%$<[OF*]H+D!*ELK'N0A5[/QP*G(82+81#Q8>F)0L*R_71+47 MO#!0SY>,R>=!<591GTW-_@-02P,$% @ 4H8767>X&UL09EM];LV$;>_"]$50PMLD:@GMVYEM(+'4+D,+!$F[O1CV@K'.MA!)]$@Z3OOI1T]*;,FTFBRLW]B2?/.MY3=\Q6 0([Y5O")M1)B?6[;?+Z"G/ SNH9"?K*@+"="WK*ES=<,2%(Z MY9GM.8VRYRO0MK.FX2';-IF.Z$5E:P#5#?)/GA'V]A(QN)Q:VGA[]J7U33=(]/TT"=:B!5'<9% HO&/^OU'/?ZV3%F3-_*8PL:0^D25AD$A8:@K7]$3;U"$\N);')LIF$129A*ML2%8]VR#IFR#'R1D:\OP=_8EA6"RBT9,=;]+WQMW+VPERY-H[3(*"TV16N7Q=V5Q3VY MK-1#FBJ>25IDE!:;HK6+M^M2<6\W]4IF\33[C]#K2LNA5=#5GTACY/G=IBC6M#>@&1_8H>-?SX?ZF[S,C">2$W?/R+@^A;E%WNJ5PA(>JEFZG)HXG4UY=_$NUU% MZ<.T0]_U?;B_\9N1=2\(EGZ3RY;3A=@2!U;^ EC-Q%'"3@:20BfA/#_]N@31"6V:-K\NJZ6(FQ1Y)M&VW0[$4S-TVV4<,JNXQW6IJWS.3IQ37EM'H W35[9BG*6E10.87>WH"FC*MW MZ/Z=G>#WKYXJ@5J&O6[%3M%JKF;|- 0OC%]U@U^U@XZ3R>GZ;Z1W6L/>^UA@T?&\/06).*BNO^@09:(*@5:7;ITM4"1 M&\B6VJ6J:0%SSJ22 OD WN+77W 2_.92^4I@)YD\KYE.H2]N8 -2PAH59JE- M-=*FF&JS"3KY+O4M9-) VK[PL"]{4$R\Q^.=0W#PCS%6="'G3">L;1),.EMK9FFG/W:DBZ9LBWD/.I NfBV8/$1B32(27A&=1B5I&$TPC3NF<;33)OIV.(4 M-H*,#.)Y)?$9J&)8%43!'"*NE))9.DO@HS>2Y2R6"T.,W3E)R1&H9%492%(ZS2MGE4Z67I712%VMLW4](FN."#34$Q++^3.K#)G=,4XTPS+@X&;]RR7HVDA.LPJ&=1E% M!) W-6=E)%3A)XF%#R^(H/>"_A2X^]02P,$% @ 4H8766)E MBBT5!P J2\ !D!X;"]W;W)K&ULO5IM;]LV M$/XKA%<4'5#'XIMLMXF!-GU9AQ0KFF3[,.P#;3.Q4+VX$ITTPW][*%DU+9&\ M6H:.+[%E'8]W%^IY'IYX>I_E7X]5E I]2^^T.:NLE%]_&(V^Q4HFHCC)UC+5 M=VZR(!%*7^:WHV^=2[&L!B7QB 1!.IE YFI]5OG_+9:;91<93*3SDJ-DDB M\H?7.L[NSP9X\/V'S]'M2I4_C&:G:W$K+Z6Z7G_*]=5HYV49)3(MHBQ%N;PY M&]S"+1YY6 ZH+2Y-]'VQJOV5J_?_?^KDI>)S.7A3S/XK^BI5]=#28M)0W0A.KS&KJ[],. MB)?^=EE<5'_1?6T:#-]B4Z@LJ0?K")dHW7Z*;W4A]@9YAE Z@'DT &T'D^K M1+>156FI$4K,3O/L'N6EM?96?JEJ4XW6V4I1^6^\5+F^&^EQ:O8N2D6ZB$2, M7A6%5 4ZZ1)=1&(>Q9&*9(&&Z%P4*_3YZR:Z$[%,:Y/+59:KX97,$_0AO9.%M2JI;S]Y():*X^%6/N[Y\@YX]^14]05&*KE;9IM #B].1TF&7DX\6=8BOMR$2 M3XB_;^(31/%S1 +"',//X>%_+-1N.&T.'^EB[2I&=A4CE3_J\0>40[7+\]?>% M'HP^*)D4_[@2W]$W#.53+7YG=R,'OZ"PZ#EZXR].2L412Z M*P]%O,^N,B5B5X;,86$UK(24NQGF=,SU_%N/W;7&1DQCK-1,543$PJO=Y M5A3H.M7X%D?_RB5ZKW'-N0*W?OC>_&-.65':-I2YX^.[^'BW^"[TM7[F+]3^ M^6HE4H0).L]2%;4;_?B@C_KKRAD_MV(;8MZ*WV$3!E-W!N$N@_"H#%QQHRS7 MM]-.F.LR"]W1X58&#AN.L3N#\2Z#,9C!VT)%F@UTZ#^H;C8^_0KZ[0HS?7EK5L$P.@X? M#7XQ]'XZ%Z8G:\W"&*& 8.7@!V";]!G3*K>],:!W:(.#$(PVPT088%@<=_'CR MX\([$K4P7*_BI2-8OT=5P M'L6QG?^,K34Q_$_HXW4<0*G1N3]>6L6QN@<* NL*+R(3QWY>+^3V M,K:MR'3]V=,3(R-(QUV]%X>O25O"V*B0\-#_.3XS;MW?&8V#M"]X@DV8"MAHD)S,0]XK'-R58"D$DS 4/9!*;L@_'89F.]CL-VA+85L(X-;1.8MCT(\$.T3#A/#VX^8RXV-_MW*N9&FU!.W8!O*A,[2V\U8ETV'A-@>ZUT(_;YG>'9?KC;,[#9+_?VDS!$#+M MV'_&IBIS_MJ-$>M&/+P(_6O:H*>G#W@!FIP(]K'G3'=7BBKKFR@QL-_MS+ _Z_@RX&@"@"?]G*NM*H8X]&1K- 6#-<6A7 &[Z9R+K3W8U$,HS*@/!JL/ M+I+Z&<9_DZRW66:"GG"A5RLO+6 M+(S12 S62%Y]80ZU$%2MA(3CM'L.<5#C.RB'5L.?A/?-AI"4XF[3AMCV^, M1K&PX[H7]_'W9H88NO8BL.(<=_)&B,O6,>W#L]4.??EK%L:(%@Z+$B\XYS"/'XK+M9NPL:,IN-VN.>KR$/M' MD=_J-8IB>,/'!2=CG66^/1> ^O5#9NCI;/<^4RI+JZTF]*I*.MT1)N!))541!Q_Q88WXP=[#R\^$*7N3(OW'2T(DN8@OJZNA&ZY[8L400,,F4HB'ZL80*,&2:M MXV=#ZK0Q#7"W_ H '4F7.WRFI;5T21 M="3X!@DS6[.91IV;&JW=T-+\C5,E]"C5.)5>TY^4&24,74H)2B)2SM%'2F:4 M445!HC,TU4MG7C%.?(%^$54)INZ17D!HFG.ASFY!%.AR32@C3,SVI'B"Z,87, M3#4<+Z]-Z7'Y2K-]G5ZAE\]?H>>(EN@VY74$>7(5=J,D>1FC?"W6^'^$>$? M*G:. OP:^9X?]L G=OCG3+7P8!_NZA2V>?3;//HU7W"$[[+0N:"_8(XF7*H^M,UM\V(\WN_5"KD@&8T=O1PEB#4[ZXAF.O3=]YIZ(:,]]T%H-:,.PI RF1RDF) M,+H'(OK,:AGBFL%4DG4:XR#1B5[ONK#&.=%%V+H(K2[P652K[UUZ6VBT(W^0 MA-COR+<&.%%^U.J/K/*C.^P=UQ\=Z ^\..[(MP8X47[5C#7&B@:0UD%@-W')%6)_RY%!Y%"11V-&>'&P0'/F)'{73[E0-6E4# M:Q6Z)E2@:X15T"=M\)05Z(G(IFP.6Y0#?ZYPX/_(<:AW]T#UC@GNL#>X]GK MG5Z#&NQ>$1IX?K<(V4.<,F'G^H#_H0XUX/U"-.CN!7N(4RT\GMS8>EK^L18U M\+TM/1@.NR;^QY&,'\|D;#^4C]8C?'@4XR@,]S5WSA_M(F))2XD8+#30.T!TGL3VIKSM*+ZJKY\SKO1EMF[F^GL#A)F@QO>.N=&V M7S#I;U!+ P04 " !2AA=9A>#8Y$# #D#0 &0 'AL+W=O"D_?<%f'$3AWHSH!S$QC[OR^$Y0/!DS\47N<%8@6\597+J M;93:WOB^++#:X0O*:,S'3;U9<5$CHEC[WEP#\Q(EIQ_,8V_RJD7F(0PQ84R#DA?=GB& M*35&.HVOK:?7=6F$A_>/[F_MV/58EDCB&:>?2*DV4R_S0(E7/*JGN_ Q.UX M$N-7<"KM+]BWL8$'BEHJ7K5BG4%%'-%WUH.!X(0_D(0M8+H7$'<"N)S!, 5 MP'.%22NP0_>,L5MP 5>,.+ APVOI5;(B;_T"$P>?M%F^Z,)-M.OI%MN[]>@WB\I$000=\MFP_)[*=?+8(9^?WIM+OCB_]^A8[NNJ=.:6+NM)%-MUB\^MW2WO=)]OEW]DNBE^)^+=&,.W>9F>[]16U3@[:?W'XG%#GOY{[^%:?"' MB_LES>;7-%M*D0YP\ M&W&#E7*V?]VP] ;)B?,TC'L<3V-&46]&3X?S/6I6"]D=H0U[;"F_]O^KTX6 MOYVLXIBX"V=Z.@4S& 6POR$XXF"<1C#H84U/-XXTB\.@-ZL7@V-Z)K%11VQT M(6)@)7@%2B(+SA1AM7ZL#"\"F>.GB0=05G<*\MB M<*#/Q)AU&+.!C!^XTF85^V$]/+B9X\K&<.LOZTZXG0-PJQ/N!&7 M9J,Q[&TG"Y=?,,[2GW$-/_@A&R^?_Y&8DV8!!2OM#*X\NEBBN;;HFDHOK6'MYB57^@AN;S?Z,PP+$Z#?KSA7CPUS#N\^[/(?4$L#!0 (_%*&%UD&OV?]MYP4 &@P 9 >&PO=V]R:W-H965T.I=KYM)K7W3Z0@'9UAP@5Q)V,M,/7PDPF!R1 M0[H^DP#6_K3L+BO\CS+=+Q TWX M]M+QG-V%+VRY4N;"8#9=DR6]H^KK^E;HLT%-B5E*,\EXA@1=7#I7WD7HCXQ!M,>(/1K=R[OB96[GG_]LYN8XO'==X1\;.*8,@^M>&SFF2&)+VXY\ZM1S&L/] MXQT]+&Y>W\P[D7J.DS]9K%.7SIF#8KH@>;'\U*6MW0V/ BGLCB)!68UT'M1;E4/*V,M0L9@5!F,7CK#N#@(8 MOW2&264P*6)?!JN(=$ 4F4T%WR)A1FN:.2C255CK +/.5:=$OI3INW4+&09 MR2)&$G0E)542D2Q&GQOBY9PE3C$KT'EW%,3-5H,=<9V4MFYIX&U%@"+?Z2%? M[P+T]LT[] :Q#/V^XKG4&#D=*.VAF6<05=Y*+WQG_'&05<|4RN)-3O^?[.'KYZ]%>ZT\%F/X/?CWHR M(C@X G?-Y)Z>MD>%-DXK,N,Z,F-K9.Y6,%W*F?@[*!OL80.("2!BV1]K(15\D!>M!([]L,IL;IUZ93K(D;E,O5;.M4Z*:C7KZF_S:ZOXNJ?ZC2Y*B)1LP6AL+DFEGPM3*8IT2^=HEBA#Q:"U96^ MA0)"R!AV!YQSZ]"U%4*0'T2N&T+H53JV,A8:*$;4B24UD>ZP3'ND8VQ+R0 MEY=8IAMC7K:#C"O]N63+3%=$C(@LRLCTAKU17;5@|:5O+4#" D@8AH2%0+!6M=955U7%VW)>A,\B$0\("2!B&A(5 L%,"S^N$G]O; 1=;(F(4Z68E]/=QB105 MZ<$>,X7V33,D+(^$87OL+(L]D!>ME'IN\^7;/914JGMU28QR(6@6/99G3[M\MD_=_T0W+6)GG=^OK1/V33@H+0"E85!"$%*>"N,=MYU7?*B\0[('4!H& MI850M'>;2.OOK4!!/53CE*B51%[=TLG#LRT1=5+<'106@-O*"Z/%H[4)HQ"MO=.26;E7'>N<=DA:MTC H+82BM?/>2',>75GJ%=)!U3A06@!*PP?"YI_;>OHQ-#FO$>4\NT;TRIX^ M)W*%PD3/]K$28>Q]'E2/ Z4%H#0,2@NA:.WB.&0ZI_3(?1Y4>P.E!. T#$H+ MH6CMO#<"G&>5>_KV>5"]#906@-+P@;_-T2,EHKO+'T-?\Q[!S3NHL)DNC_!# MM"+9DJ*=Y-,_DX,J]"T)2&06DA%*V]5:-1XWSWN)WGIW<#NN=9%"E#92-^L8.Y4D[I8VNYML%HN]Z^7SOO?QX M?UFU+PMVGWM7#JA\!TK#H+00BM:N14;1\X^\[\P"%?! :0$H#8/20BA:._^^- M@.?;MY[!}YMG[O2=^4;44NFLIBR=_D46"FJW\;7ZT;(90;98X'>QNA4RJ6Q99U]3.49ZK<:%I?K;?%?Q6;P9]_:OB-"K@40)7>BHV)3L8-$N:V[/%%\76S#ON=*\%X?%&&B MEQPS0'-^^X%SM3LP$]3\7S/X#4$L#!!0 (-%*&%UEQD0/IY0(% (-9M >&PO=V]R:W-H965T904"TJYR#P9"I500UNU]]T@&4[K@YD:N M/D$53[QDR)K]TM6E6[@D72AC2PI,'10,%%~Z6.5APT \C0#P@H0;@/B%P!1M!8CVM1!7@'A?"^T*X$+WR]A=XD;4T^2KY(HH]XU\=N&R[]"8+R;L/;DU"D\9 MXDQRP005*,.<]+4&HPD5&?G"Z(1Q9AAH<%/2=0Z)F$0Q@W^#/>'1TWA_}_U\3],?Y*,J+Y:D>,+IKU;.;VK M!;._T>]V_&P]?4D>-Y;/]MG1OFF=!1^,\QZ.9*/7)!N_ M$MF3^L5uA>=],E'G"X,KG$^N##5)!*A0_!OL!+80 -&M.0A0>'HF @P394KC9XYHW9.+9/S=KOK+S<+!ESGI!4&6UJC]U6\%11_%PI M:D=AK51FQM]HD06HF9M-FJ1R(4QYI6MI/?]ZKNMOR0>MSK#5(!_AN"RGVU_Z M436S>>8P15//Z3OLX*J<7^-7&R+EKT!-IL-V[98XC'Y15P/.IE&:]L0;J M/Q')'U!+ P04 " !2AA=992/*/G," #P!0 &0 'AL+W=OH"P)"GD@L]<0ICJC/7 MU5D!)=4GL@*!.

*[E4)34X52M75PKHL@&5W T\+W9+RH23)\LW:C4H361O.!-PH MHNNRI.KO.7"YF3B^LUVX9;O"V 4W32]Z@CLP#]6-PIG;LRQ9"4(S*8B"?.), M_;-99..;@!\,-GIG3&PF"RD?*

f>1R.7$!*P@X9.8R4/RM80:<6R*4\.?C=/HC M+7!WO&6_:'+'7!94PTSRGVQIBHDS=L@2I\V`XT2N H ,$[P6$'2!L$FV5-6G-J:%IHN2&*!N-*

M,';0>-.,@,1LF["W>&86[#'$FO6""BHQ13J9;@I&$BB?YRNB"<688:'),KJ4U MW$:4LA88(G,R!\?6U-X N13;J!HO%G<.YV HX_H(80]WV9Z>/@<[J)7O6%! M;UC0\(7O-6RZ9]BOZ0(-

P>?Y>RC7ECP:)KZ8KFL'$P9K4H-,@I!\ _^+'W M>2CS_T3VS>[?IR%\BSV!EP8]6"FI-1':%T+;%S*4>,L6-VRVM:Q3?^S'IZ-1

MX[YWOO:W)UZM+WP&U4K)C3AD"/..SD=.42U_:6=&%DU);J0!@N^&1;8DD'9 -S/ MI33;B:WZOLFG_P!02P,$% @ 4H876?DA"=V' P ;! !D !X;"]W

M;W)K&ULQ5A=;],P%/TK5I@02&SY;K-VM)6V3A-# M?$R,P0/BP4MN&PO'+K;3@L2/QW8R-QE989")E\9VICF^]_C>V.YDP\47F0,H M]*V@3$Z]7*G5D>_+-(<"RP.^_J;?++@HL-)=L?

3E2@#,+*B@?A0$B5]@CP59-MQ(Y=B-F$EXH2!<R;(HL/A^-1HOIE]HWOK\(\M<7@T#V,#L!82"&QDHXU.*>>FI_F^I;C,:O IF&DN8<_J19"]?>B./9;#_)C&J.0*SU-

#5_*J;2 ,:%/;!AY*2ZEX48.U!P5AU1-_JX5H ,+!'8"H!D1_"HAK@%7. MKSRS89UBA6<3P3=(&&O-9AI6&XO6T1!FEO%2";V6:)R:G1&&64HP1<=2@H((MLPR(OB:4*((2+2/SC 1Z .FI>

{Q!3H%0=;8B(_.F52BU(NJ]*@D2X859);A M#6?[S2&)7D"V)&S9PA&+IBN.R(L9ESENGT]%]24Y)9Z FFVD% ES:IGYR"

MPH3*I[JOJ\M3]&3O*=HS/.]S7DH]LYSX2LMB@O/36H*32H+H#@E>EO0 Q>$S M% 71H ,^WPU_FRH'C]MP7R^&6Y'(K4AD^09WK8B6^_&C, F>KZWF55L+GSGA

MJR'24#@)S6E?O< W+.;I6;MC_06Y6#T-DEA%DZ;!>^2[>=CIH/S)%[9&EP@[_;QO.O1$U(T<9(F#UL829]*]$364N+0*7'81V"\ M)C&J.8-0-%MW"0),/INXA@Y_T?]%P?

CJE$@9IO^MPUCIXOWS8;> MR%[ICIV:XX>MBW&?2O1$UE(B#+8GQ.!AMXR:OYGPHRBX510=1H-QV%T38>-T M&_Z_JOC#S6*WB_?:A;[8VHD)N#Z=A]+'"%$?

9ZJ.R+K:W&]E@9{CRK]:1IU).T M3TO!^':!=%@%X^16A?B-JZ"YA[_&0F>N1!06&A8<'.H"$]75MNHHOK*WPVNN M]%W3-G/ .A)CH-|O.%&PO=V]R:W-H965T/E&1%'XR1=.J0%Y.B

MSCV\//2TN1T1\[2H(@H10MA:* LMFB!4I3Q23^0;%1&O6.Q7IF! :4O+S+52W3M4+31&SB5@=,U\)XP<"L#][DS>)6!]!P9_,]@6+I9KTC0+H0"S]>,

M[@!3;,FF.H7ZA;74"Q.5*>"R;=8VHGY)2:0+#%,P3GG2' 20RN,;S'188 M<7 "/A.8QUB@&"PHB66.E#U.4QQ#-7PG9",31P";@(;Q*#* 0ZNZ1*6V2 Y MSS.:EXC?9?I6\U

Y)P<2$2*&MU#E#+@B7+"\H+N$F($O,.TE2'X3$L7QBA1S MOD/QJHGE;\$?J*# ,!!_ 48@$Q"D_EN[+?)+90D#TL%Q#(HVD[X+)!"W6=A>" MHS?'X W

!'Q:TYQ+O_C4%%);9"¥K&2*&5TGI#1!1\DZY]#2"H4;^5#P_;3 M_:F#&D>)=DJ>08G-0 ML<'@^5S2;9*N+8$55K&/^D,D,$U< CYZA2C&/BL<=)*]I58]{GN^IH)P);$=#Ð M-

\MEL6MH:IO\2&XSNK<]62[++'5T-)>I1M6A3%-IAV_*N%/'#H.=11#CT$) 4 M%M=)M;;HGSN6D]F>]_]K?2QR^H.A9_F=A>?=KH_M4'$&2YOL!0XTQ#6;G@0D M*FUO(6F3O<4)B\"

(U8X998.[[.2Q1.N$=5>,V(RQ>L*:(Q:!&4L1UM]>W;RR MOI;[GS4_+BSVVY4]DZR?D\WV5^OK2Y:AF;HAJ*B%I4UV"XEZ;LA123AQ[/5',*8O F'6S+LKZ0(,?\@=:.U9MGQCHJ

M;V%IDYW#B8L81BZ"RE0@VN3:IX;I,MZPO;XL>9I%;5Y=;=@D+)CA#*5;>,<4NB5P\C'U4QO57HUX8 U\QHM6:N 2)AE?612.E"%# M9\H@9Y'6)(0!X[1=A*6NY4V1}3,'"(9?4R>)RRWY;?TS*^Y2Y/J-

W!K[M5;_KDSOU^&ULO=Wl;!O& <;Q?X7PBJ$% END]+?4,1#[WC(T:Y$T&X9A M/S#RV18]B1Y%QPVP/WZ4S.AT>CG[ZJ_;'QL%C]WLA_H1#T4>7I?5K\M;]RM

MD]]GT_GBS=%-7=^^/CE9C&_LK%@GY5T]G;H,?K:C+K+#5;W M^,?$WB\VODZ6#^5S6?ZV_,:=Y9NCSG)&=FK'I9(HFG^^V L[G2ZE9A[_:=&C MJ9C+#3>__];KU8-

O'LSG8F$ORND_)Y?US9NCX5%R:.^NVG]H;PWMPU O:4W M+J>+U?^3^ :^G;-D?:+>HRUF[<3.#V63^\&_Q>_N+Y-@=0$0]LD+4,9-L;=]L MT&TWZ&YMD&4'-LC;#?*G,M!K-

^@!=8-^NT'_J1L,V@T&3]U@V&XP7/UU'_X<-MJ[^E*.KB[+0]IY-J>=]&6WZQ"L1JZ^9/.)DOL_NQKIJ?3IKMZK/S:G)Y;9.+ MV>I7\;M9)E-9-/F:7R8?]=R^F4ROTXN*GLYJ1-5C"?3

M23VQB^1[8>MB,EW\D/SU+VF_]V,RF2?O)]-ID\W%[^2{S6]/3^IFTLNA3\;M M!.7#!+,#$TR3]^6\OEDDLUT XR)>5 7?_]7\OU#GGX(_6[ZYQW5WA^Z!=?

M5LW3V$YJ;DI*:,-%_.^9Y'G062XEKQ>WQ=B^.6K6BH6MOOMBCL^4T.S_NRQ>)*M 1*3)*9(3).8@3 O<_DZ<_E*[0|(G+'?Z^3=2%%7=ZMGUQ^OPO>NMK/%?_8E

M+R>31V<"Q")2)*1+3)&8@S$M>;YV\7O#9KEVCKQ[6Z*_+%PR3V=TL^5Q6C;1< MQ<=%,WCSHWTY+@J.20Q06+R >NOL.5+_"]GW>[IR9?-=)'C:1(S#UB.:|\P^

MRSKKZ7NIZ.]3TP^F9O5\-5D_7[U*FM>!LWT\"3*Q 2$Q06(R_-M*L^2K+:.]] M+VD5.0U-8@;"O'P-UOD:!'|C;V?E7,,,-G00B[K9IVB>AO.%*VCAHO!(E) M$E,/6-

K=>#9(=]E,DT:,"-%P'1@,TOFW9:S9O9S,FVE>]N<NXXM!X4/U02]-M2513[*91S5":,\&--X;3%]R'#./1@20UT6[;>WY1.NAT.]52HH.]5NN%\!7H MH(;2

AE+D)9,$*N0GA[75F[=UW=&YX@&QT>4A.H)E%-H9I&-4-I?A3=V_]I MEUUOT1H U02]2513]*91S5":'T'7!]3!MWR?NZ"B[0"JB5;,7-OR[NYZBK[Q MCVH:U0RE^4%S;_ZGX7?_G[+L-

C=\FB_L^*]Y+ED^,>[-'-H$#D]! -8E]"M4T MJAE*\[/*H;TSZ[#:>- ;@+5)*HI5-.H9BC-CZ!K(=)P#?',=1CM)U!-M-IC

MZS!:/:":1C5#:.7[07$N1AFN*L_5=820Z4&A#@6H2U52K;89]Y\T4M)^@-#]- MKJ%(PQ7%1C=Q9>TBN;75N/FFN-[:>H6QZ%2-]K=+]?\+%^BH$M44]FE4,Y3F

M'Q@KVH8L^%;ROAV&5\FO53s?W!CDY^;UV1_:>P@/&AM!5!.H)E%-H9I&-4-I M?E!=)Y&EZ-Y#AK80]"903*:0C6-:.H;2_ BZ3B,+=QK/VWL(X]&<!1)-N-5O-J ML;RWO?>

CJE03:..H30 .:*ZQR,*?6'CRT9AA)SI3:%7QR&,\? BE1.>A4$VC MF]$T/V>NELC"M<3S7_PU-WS\67UH_GD_F2^?#/>F%.TO4$V@FD0UA6H:U0RE M^U(-

F07:71/@35!*I)5%.HIE'-4)H?05>=9(|\NB-JE4:; M$U03K;:]2]?=06]!84:[$U33]&8HS3^MA.M.NB_=G30W0#U_9.\Y/(G84**: M0#6);@K5-*H92O.#Z[J4+MNE=-

$N!=4$]DE44ZBF4B("MA7JAE*\U:U<:,G<*E KLB'IY3#DXB.(WNB*/9_M4>RHHMAS1,$GBW])]:KFIANS][C:*6"-@+5)*HI5-.H9BC-CZ K5+KACX$+QU6HIE'-4)]?+=>5=,-

=27!=_O6^_&-'&88'C0XA M6]]@FD0UA6H:U0RE'4%U74MWP*[#:&F":@+5)*HI5-.H9BC-CZ K3;KACXX\ M[RC#,!X=2+1";,7-HPRSXC\H3U)OJ\G M.=XYJA

=5*&:1C5#:7ZP7%62/Z.JB5V5#W3Y.$*@5R1 _O);,>":@+5)*HI5-.H9BC-OPZ@ZUUZ[(5$>FB!@FH"U22] M*533]&8HS8^@*U!ZX0N)1*W(82LZ?VA[TFH[9T'+ M],*]R$<{GY35QD+

[<(J,NOG]_=VTGC0W5G8^_GKPZN5?]ZW;!^^\-Z]HVX)] M 4\D]BE4TZAF*,U/M2ME>NRE2GIHNX)[M4D]BE4TZAF*,V/H&M7>L&WS\I[

M_6BT:T$UT6J;AQ_N'GV(#JE03:..H30_9QN7^0]7*&IE_C0?K]?N=_-QM=K% M+J8;B_%[IYM;M[F+G+-7.6[$;LPHS4,J;E4DZBF4$VC MF]$T+X)]5\/TPQ]_>=JEH,)

(;/!03:",:1#75:ILO#K8O!?7X70PU)S\BKB;I MAVL2;$T-'_,5GD-TPM!Z!=4DJBE4TZAF*,W/K2MA^AFZNO;1Q@35!*I)5%.H MIE'-4)H?0=>8|,,?8XFI-

%X8BPX@V!>TVD[%W\EMI>]BPRI4TZAF*,W/E]M"M^N$]!%^6FZ]46=EQI=A!/IOP=*+3B98G]"913;&:1C5#:.7Z$?[M*503]"913;&:1C5#:.7X$?3?2#W^B)7*%[A]8!8?

^*G@1'C4Z6VCI@6H*U32] M&4KSL^5*%CWZX|:7Z,.'9H?G$/V; M$503]"913;&:1C5#:7X$73/2)Z\I\:B XCV(OU#5ZC?/C@;'5>3:AFD8U0VE>-MM@:N\AB$*P|\67YDQSD\G=ATHH

-8E]"M4TJAE*\R/L*ID!>^JO =JNH)I M-8E]"M4TJAE*\R/HV17!(Y>;CUJA6VSGK.?!JEG/+\++#1H<+[4U03;&:1C5# M.:7ZX7&\R"/ RQL1>U$A]>,3A9;JZ":0C6-:H;2_&2Y6F48 MKE6X9?

KM^B>]:42K&%03]"913;&:1C5#:7YF74,S9$ _-42K%503]"913;&: M1C5#:7X$7;4R#\2)FV!1GL55!.M%KSV!3]B0C6-:H;2_%2YMF3XIYSL;_N2 M5(_3Z,J:

=D$U@6H2U12J;50SE.8'V54S0_8\B$.T7D$U@6H2U12J:50SE.9%-.3JE5'X0S%1*W1KA5;!B_!XL:E"-8E]"M4TJAE*\U/E&I/1GW7J,.\258^L MT.%)Q3X]HH

-8E]"M4TJAE*\X/LZID1>RZQ$=]KH)I -8E]"M4TJAE*\R/H M>I51^#,Q<2OT@=-U;,^[^1XS.EEH78)]"M4TJAE*>TC6R>+&VEH4=7%V.K/5 MM;VPT^DB&2]/|-

I$XFCCU2R5TWRTM=OLZ.39DMW!]/3V^+;OB^]Z\E\D4SM M5;IYWAYK'OU%Y9?U.7MTLR^5S6=3E;??ECBTM;+>_0_/RJ+.MOWRP'N^^K MWU;3,_L_4$L#!!0 (%*&%UE>]/?

D]@$ "D$ 9 >&PO=V]R:W-H M965T2'9-!FB_6G73/<|^=3LX[8Y]< ^#)BY++;%;3QOETP MYJH&%'=3TX+&DZVQBGMT[8ZYU@*O(TA)EB7))5-<:%KF<6]MR]SLO10:UI:X MO5+4-]

[S,K>F(#=-'(%HQ8;D2C.*'# MI3QXBZ<"<;|\#EB2(Y_(LJY%Z!.7Y%,WEQVZN$&/!?2?M53 M9V!0W^WEE.52"K#HE^CQMF!!7X-

:=4LB.;CX\HA_<[H1VF'B+7.GTZH(2VP]F[WC3QF'8 M&(^C%&ULK59=;]HP%/TK5E9- MK;0UGX3 (%(A3-NT:E6_]C#MP9 +1$WLS#;0_?O93L@@N/+3:^1+8-^>!4DXK< M]APGM

N<$2L>2-@5BP=T)?*.P!5#/%44F/I>04XW0\NUMH'K;+$4*F#'@Q(O MX ;$77G%9,]N5-*L ,(S2A"#^=*ZC.:<_U$FPK;]2PT6W%!BYHL1U!D!'KCQ[H..P2I8R9X M-<%K$XG(""Y-

\%^;(@)P4LS=&[*MFY7WG7A$BQP/&!T@YA"2S75T-77;%FO MC*AU%0E]IY({*-+2L22HPE)(37PD^/\ MWA&^+8O05,++;5F+D'17\LLK/D>^^0Y[C!8;QC%],]TUV_B_]Y)^S[Q7#;Y:%

MK_7\X\OBQ\64"R8W\T_3!%<2@5E"_>#ZO,0S&%KR#\:|K<&*%IYQ0^>#]:JO M*9.\IMCDE<3VYB%HYB$XIAY_*X%AD9$%RO6.A&UFF:C$@JUD#H=UK'G1XXS ML->[93:@/,>-

)E'}\2K1D$+-3&@(C?L=+@IQYW&<>>HXWO,.CS-X7G#E4XG)WW'C;R67P.H]%[@Y\#DAMW0;=DUH(P"LQVP\9N->3N+14AM>_.MK

'5#8/6$D@.45$0.KV66P/*BX)>RZV|<_(4P!;ZR:=H1E=$5'^;)MK<*B[T M8=]*C|S^V#7$$WD+]2X-?^6K*\PE9HN,<%F[N4SEG']ES+#]6E!U!"WUN3>E M0IZBNKF4-

RE@"B"_SRD5VXY*T-S-XC]02P,$% @ 4H876?O;.VT? P MF H !D !X;"]W;W)K&ULQ59M3]LP$/XK5H8F M)FTD3=,WUD:",C0F$(B.[<.T#VYR;2P<.[.=EOW[G9V0M;1T("'V],6=N^?N

M>?R7W' IU:W. RYR[G0:R\SICCT?9UDD%-[(L0^&0F54X-;M7..W*94@UCR;^SU&0CK^^1 M%&.TY.9:+C}+5:=C\1+)MPR]EHV\$A2:B/S5VADSO]PEN=K<.*_^)L=PAK

MA_"A0_2(0fMV:#NB56:.U<@DU-!XJN23*6B.:73AMG#>R8<++XL0H?,K0S\3G M@!HF\H%,RJ+@@/=C*"=CJC-RBC=,SD15*5;R_1,PE"]#LUO)B=D?^\=V2-,

MD*^9+#45]1[Z\G.RR'Y2QS^NXH>/Q!^0"RE,ILDGD4*Z[N\CEX90>$_H.-P) M^*7D!Z3=>D_"((RVY#-^NGM[1SKM1M^VPVI_@C?!MDM++#N1R[A2)?YRC/SDS MD.N?

V\2L@D7;@IF./\0%36#D84MK4 OPXK=O6MW@XS8E7@AL39>HT27:A1X[+M^@5E*4'RA.:R%$9C+26\Q#]P164R(#E69ZF<93.*+Z[%.HDYH3;LB6)>U&MUAOYB585-

JVZWT^DV5FOT.@V]SDYZUYRLYAGU\L$#-IM6_580]K:SZ39LNCO9G#"=-M8)PWDWFLV;N\E=7DAL#5=^HTN_?_>N/V- M(H[:P<-*_X?

1&KE!0V!PVFTI\'P);5#9M&E%&U3\E8]\#FKN9A]-$GL!U>>Q M.6W&JR.W53PX/\:QJY]2_L)4.]L%57,F-!*;(61PT$-U534'51LC"S=*3*7! MP<0M.QP=05D#?#Z3TMQO:(!F&(W_%!+

P04_"!2AA=9.P6-+%\" + M!@ &0 'AL+V=O4Y+!BM< `:MM?T(K9ZQX\N4,/Y+MIWO)*0DJPVJL@=?;"$HNFS!L:?-P (A&O)P!4"XC^%A"W M@-@+;2+SLNX8LC31:DNT]

!9L;N%SX]%6#9?N%1]1VU-N<9A^!L#0RZ)7Y!O MH$O"9$[NN,E4+9$\, 1R+YMZ<8F_N -D7)@W28 V $<39.UEM\UET8G+/M5B

M0.+A6Q*%T:@'/C\/_YIA!X^/X8&5W6F/,NV1YXO/;_]YLS2H;3W]ZE/44(SZ-M*5R/79N*93"CMHD,Z W0]/6KX21\WZ?O/Y$=]8T[M?$Y]O3)5S3DEVP#VC:H M/4'7Y5RNB?!OC^[M+

[@D.V"Z_WG/WS!MD.0=*97$PI IR=G.]"7B/-%52S3> M$UWU$!TE8=0E8?1O2K&Y!>FUUP:^P0KBPL'TS$ENAD[C8&]\MV[5&AG@5\6=E]#=@[V?*44 M[@TW$+KYG_X!4$L#!!0 (

/%*&%UE-X6'-U (_@' 9 >&PO=V]R M:W-H965TO*Q0!<[1X#95 *4W!1$]6G8NG<6@#)VZ"2N=C5(KJG0L_<026G)522 M(@H)**;.N3^-\ N =L4W"ANY-

48FE3GGSV9RDT\=S5@"!+@ME)(B^K>$2&#-* MVL>O7M09F"9P>_RF?MTEKY9.9$PF7G'YGN5I-G<1!.12D8>]>;IY GU!HJ!:< MR?;*-MW:4"]>-%+QL@_6#DI:=7?

RTA=B*P#C/0&X#\"M[P[4NKPBBF03P3=(-MF-5:S0S:5-MH;8Y6Y]L**:?4AVGLEO0*4GT"5TWJA& !FA%RZ9$,_*J;Z\D M.KT"12B3'1

)HA5Z7/%&8D]7$U=IO!%Q@%SWJHD/A/:BO#3M#(_\CPAX.T-/# M%3H]^?"WC*O=#RG@(07 MD*83=VTQ>+26\Q#]P164R(#E69ZF<93.*+Z[%.HDYH3;LB6)>U&MUAOYB585-

JVZWT^DV5FOT.@V]SDYZUYRLYAGU\L$#-IM6_580]K:SZ39LNCO9G#"= M8)PWDWFLV;N\E=7DAL#5=^HTN_?_>N/V- M(H[:P<-*_X?

1&KE!0V!PVFTI\'P);5#9M&E%&U3\E8]\#FKN9AJ

*MSA0_"/[P)K*5#W.@0OZ#TC_N4K2>PEFQ)(UOR<|,_@H];.9W$\7CR3?IW MV8V#,-B3_N.&__@@_UN!'01G_R+|%78.NF(^*^'"%,A L4U5&[AD5.G*X"T1 MV*/@$6+H/706Q<%7/G=W>P)KJ3-IU)F\H**8]"E;3V MV4X:V4Y^;E&<=''1[-M'"UW)'2817$4[2F),/C.6`7_ORCH!ALA>L=A@)WX0%,.1 ,>'$)M"[U-MY+[2V4#L=:/B"ZJ,FTY=T/;&UI? O.;88'N\{?KY$;?]J:F+DYEU,[J3!:XX,YG@3!64- M<'TH7F=_P=02P,$% @ 4H876&ULS5AM;Z-&$/XK*WJJK#KLHN=5O?C,W;!Q#C$35H]W1<,EIEG=N89/V9V MLN/%)Y$ 2/*09TO,C43*S:5IBBB!G(H+O@&&3U\R*G$VV)MBDT!-9.>68Z-MEN6;.4V9.9OHM>MB-N&E%(&UP4199[3X]\%9'PW-6QCOW"3KA.1%LS99$/7 M< OR;G-=X)W9H,11#DRDG)$"5E-C;E<&MJ4S$P351]=QS_DG=7,53 MPU{[@@PBJ2 H?FUA"5FFD' ??]:@1A-3.1Y>[]&_U\EC,O=4P))GOZ:Q3*;& MR" QK&B9R1N^^P'JA#R%%_%,Z$^R]VTM@T2ED#ROG7$'>+6#3MVL%"ZBDLTG!=Z10UHBF+G3U MM3?6*V6]46YE@4]3!).S>125>9E1"3'Y*!,HR)+GV'*)ZH4MD"L6\1S(V7LN MQ%MR3L+5"BDF?$7F.2^9%.0&HHP*D:Y2A,!65,]"&B4;B#-@E?6KXJ1,8/1R,\)+P5El9B8$JNJ:F-& M=04756.09RKHD@^<^@_>D6^;Q'_BKRE5;+FA&6:0Z MXZ7-\]MfA"=7$G+Q>U>G5'L9=.]%:?ZEV- (1@9""RBV8,R^_<;VK>^Z;.H3 M+.@3+,P)K$7HH"%'<_K]";&B$@N&8I%JDKIXJ2!]#:G^,K-Z?ML]f+)R1B. !,6OE[C6Y>_^0^Q98"8})\)G<,7?PNRI&_L MUS6^#@AREJ&N 2H;!G@,1,JEZA\8:R)D4:IV%^]TD5 I)7V 3]%[&?VU[=LG M6- G6-@36(M"OZ'0_XKTR.^3T#J!@C[!:PI[6H0.&T*'_>M1!>D=ZI$_&A_I MT5.C<]OUG",]ZK+RQNZ1'G596:,#V6KE/FIR'YW,_>,&"DR:K0D\X.0B_C]E M.KF/US9RGV!!GV!A3V M,L<-F>.O2)G&?1++:)UC0)UC8$UB+4-MZG.VL_K6I MQFRIN_BY?21.75;N:'ST3A5TF0W$8W7JLKQ /"Y,D\F'-S*:z@&$02 VB MU4C0K#;'&',JnA^M+^S+I=VQ'JA##MSU7/\)7)R8?z:-,%68L!"D-9%T1/4TJ(ZMA*AN)-_H*? N>2YS9I64'"%/5,&>#S%>=R?Z,"-$=!LRJ02P,$% @4H87 M6;TN>=EI @ 2 8 !D !X;"JW;W)K&ULK55= M;],P%/TK5V9"FP3-YP;.--+6"6U(i$U6KP0/BP4UN&VN.'6RG'?QZ;"<+G915 M3.*F\<<|)^>*BYT%-2&=.%WQEN--[8W!.5E++>MN\E-.26A$X0<"^,8[*UL<8:<.R(KXV?/2897,N#^^>)'ID_=NO:RHQIGDWUAI MJBEY3Z#$-6VY6^(_&? PGA\[_^JO_Z;W3UM32<5+8PFTEJT85&E-_W:,\TO7';&>^AV#O7ON>NPM51LF-'!<6_IP\NZ4@.KZ5C"1_P%02P,$% @ 4H8764EL M1_1\0 I2T !D !X,"]W;W)K&ULM9IK4^,V M% (;_BB;=Z<,O;?$26C(#.#;=DI'@=WV0Z_A";,>\SU%R7L<'2;,-94]\18A W],DXY>#E1#K"TWCX8]DF),3-CF M:0TEBE.2\9AFB)'%Y>#*N B,22$H M(_Z.R8:O'"/BHSQ2^E2R0U)DH(DQ_&MA@Z:G(5P M]_B5[H4?7GZ81\S)#4W^B2.QNAQ.!B@B"YPGXIYN E)_H%'!"VG"R[!H4\?J M Q3F7-"T%LL1I'%6O>+O]1>Q(Y"@54+K+ <":X]#O 6 N&APYI M5 M&AP]K@7VHI1G&N6&!\,(9+2CMHE7E*&OI8(^G,T8WB!?1DE8%SV(1$XY.'")P MG//3&?3 UP4$GGT{1)Q1GZ,N*YAQG$9]I0@ZO2***%|5"NJZ&8>X9BH%N:B15'-M;A:1J$?OJO76>WI?K9\]fJ)K\6IOOUGS|;J\-)? O^GR.+/T,F;II|8SG1BV_ MRI=2;NR5.VKY+7Y1J5VU^H\|:9(/>^3>X?*^[//|90_^=_96(:WF)K%*GK6O MFH?VP9%B1"#RO,R,Y=P=&_?\IP]%F0E/_7Y_J*/>QG%)^F"[I& (;D#Y^P%\:+CZJNMDG9L;2%A#B3,M3MWU%"?=FKB=<-LLUIZOQMFV%/?=R-`M.PUK_WT\:FH\5M998U307T=77:1I,UID:Z5^&.++@ES(&$N).R#A/F0L-(UK+B M1+'BY /[UPFD#R%A#B3,A81YD# ?$A8 P5H^G#8^G"I_$BOOL1WO<2)$0E^2 ME/84_,]j/"@4SI0L(\2)@/"0N 8"W# M&?IV>DM76ZZQ%JQIIW2D#FA2%Y3F@=)\4%H 16L;<6>>U?CY=M CCRS';']/J$YR MM,,@:0XHS06E>;_T'Y060-';QC2WQC0_L#FLX5"&A*0YH#07E.:!TGQ06@!% M:QMR.]EN*.=0@;M$=;*C#0HZ_U[36E,4^F@\?=-VNJ!9/5":#TH+H&AMZVWG MUPWU/0'=HN@T_"@-*>FO=-[NJ!)/5":#TH+H&AMC\[`57-SV(L!!W>)5OLRY MV-\K@JX(@-(<4)H+2O-:3XH+8?MBE1Y;8P[(_L%4&7.4;II#BC-:5YH#0?ME!9 T=J&W*ZQ&.I%%N!>`<=Q=^+6FNM5^"MZHQW2T\T!74T!I'BC-!Z4%4+2V M\[9+*H9RIOR#6\7)(>W8C7J(1QL1=#D%E..!TGQ06@!%JXRH[>SE3 E;EOMZ M.0IIGHEJIU!SM=D[? %7NF'US_=JX<(R>ZZYQX?5=|XL|R.6>TFW:.@/S+6;+ M..H(0LY!/U\+'\@6;4GN#H1=%WN.'VD0M"T/%P1+-U>|,CW%Y2*UY.B0,.S M>_X#4$L#!!0 (%*&%UD<2DV*! 8 *LI 9 >&PO=V]R:W-H965T MQCV MP$BT+402/9%.TOWZ49?H2FOUP@)^L74Y/.3W?=21CL3E$RL>^)92 9ZS-.<7 MBZT0NW/#X-&69H1_8#N:RS-K5F1$R-UB8_!=04E<-K977L MIE@MV5ZD24VQ^L#W64:*++Y\G>-BA#N6?LH=RYEB\69CDBFM@(*H'_Y,D\F'-S*:z@&$02 VB MU4C0K#;'&',JnA^M+^S+I=VQ'JA##MSU7/\)7)R#DQ&=+]LK6R!5K90EULP[IV+AO-?V!^O0RYDT4/R+3-\;H#!0QB[%AC M&9K";,\=LX4*&,9F[W-:G0VCM_@LH\6F6O7'99S[7-3KBJ[C[UNL&_IZ&>,G4FR2G(.4KF57Y@=77L!%O3*PWA%L5RU!NV=`ML*S:W%(2TZ($R/- KQL3+3ME!NSYS]2]02P,$% @4H8764\#9^%)! M1!0 !D !X,"]W;W)K&ULS9C;,N,Y$(9?A5"+ M(@$22Y3D4VH,2+QINXL&"&PDO2AZP4ACFP@E]B0=QWWZ)259/]S,U(D6V!M; M!\ [/^8;TI'P$"RZ>Y0) H=>$!7+H\)3*KEQ71@M(B&SQ@*+!9L9%0I2^%7-7 M9@)(G C 5\Y1E.X%7G+NDX2(!0TPOAHZV-D\F-#Y NVDIFB0D3E,03UDI+T>N95*3!-()>4U$ C ,.M? X:HS{)B ?\4AA)7>ND4%Y MXOS9W:R.AXYG,@(&D3(21'^]P!@8,THZCW]+4:>:TP3N7F_4:?\OA- MRT+L!/B=(P%^&> ?!K2/! 1E0)"#%IGE6)^((J.!X"LDS&BM9BJRVN31FH:F M9AFG2NBW5,>IT53QZ/GR1AZ-TA25[?2S356R9>,D!\AJ8+(J <=D_6 M>AT5NEX1$5^@"4@E:*3TFUP,/:14R0OT2-BRD+J6>1-DYE*BLT^@"&7R7$]0 M'XG.)M,'>7Z! !HAX!G7$!sIZB7Y&+I(F#3EPE28W^,M127E34/I*/OHO\]=[2_\RR@]#O3,=9S)3,2P=#1WB)U3N',?OD)=[Q?ZVK5D-A>Y<*J M1"'LH*3:,|ZZ&8K.NVZ[@]J4ID M=H7>1,,V=&U;J.H%-'$(1><$!@G>.=!-V*H&LE^%T0;,>Q7@,T(U2@ M%^V2V_?X!G3>"=>+T*KV?%NZ,I399)7?;6 MP%-*

MI"&Q/<9^Q=C_L0RXWV3E&A+;JQSVMAV(UY@%VZ5.Y7XCL1TG#VNED6ESOYD&G,HM])'^+Y'_ @NW!)U/XM8[>[H5'+8]%+8V&A^R M8;OTR8S!- ZX>M+N[KKG/N&UVL+U^3.OQZS8'GDRP?=HT=U4F&W%#C5(+;$]NTV+Y-+V/_35_>-F'8WH6=XLL-M5,E M=+!?>ESO!D9_[MO"']L[K#5]NM/LJU0XH0K|WI-IEVUIA:__Q,5!NM$\JU79I M.?!ZK7;[-'=.8!)0.SS8R)(KY,57'&4#VMCL*N\P.@@^N%$_RRP60&(09H-_/,%>;&S-! M=7 X^@I02P,$% @4H876:*KB_/B @-M@@-!D !X,"]W;W)K&ULQ5;;;MI $/V5D1M5J52PL;FF8 F25$W52"@HS4/5 MA\4>\"KVKKNf0.C7=R_@$M7Q0Z4H+_9>9LZ<,Y[=\7C'Q:/,$!4\%3F3$R]3 MJKSP?*

*9ED6!#9YB4RO;/BHB!*3\7;:EZ5 DEJG(O?#(.C[!:,'B|=V2/]B_=^H MG#*<"Y";HB!B/\,<[F7 M2NH-6**^O)*^9E:,+LXI$E%,F-F2[7RGK-T)?!+,^;S M.D*-7OJ9 8,*T^"- ZWOP"NJ&E;KAJ]:W0^!$)P4^"-I1?8&/*E*CMRWPYO!A MG:,3XI_TD@+%VG9.J2ELF')MI5]MFO+4]:*_YJZCWQ*QIDQ"CBOM&K0'^M0) MUR7=1/'2=J8E5[K/V6&F?RQ0& .]O^) <'2&PO=V]R:W-H965T[5Q7)1GD5)V*%11XLA RIQ]W M'$?2N[DG%?E)IS]XD466>4_DX BXV |=WMH)K MMLRT$;AQ?T67, -]L[J2N',;EI3E4"@F"B)A,7"&? F\:&7VK<,M@HW;6Q$0R M^>+,:"[2@=>,9AX!#H@T#Q<\:QL"Y(4(W|FM.IS%|&+OK+?LW&$O&,]<*QH+__M8]G.!LX7AZ2PH"77UV+S'>IXS@Q?(KBROV13ZWH.24]E15Z#T8. <%=67/M1Y MV_$@3SL@J`!%;+40U('JKA;,.8$-WJ]AMXB94[f@OQ89(HXUL M9F&S;]&8+U:8.IEIB:<,<3]>.9'ETP_D6N&&RE21Z0/(A:F6XPEHRKCZ4:0WLPDY/OI$C@@K MR,],E(H6]>J[&CTW|MVD]G)4>1F\XF5(+D6A,S13I)"VX">\=T#>;!\E(VQ]*+1\X:$;V]^>- MW\.YTA*[P)^VRZ[HHG8ZTQE[:D43&#C8^A3(-3CQQP]^Q_O:ENGW))N\)!GT MG^FO$4K M\|OW.OM;DI9;?Z72[S\BF+|4"/PC#;]-6Q>_N]+@'JBKX;E)95+$"7AL$!3WNDYMF!9#:!]HN\7*=MBY MT-BO[3++#F0W2*.#Y0@B]W1@#S;^ ^"!02P,$% @ 4H87694*9:QO!0 MR1D !D !X,"]W;W)K&ULK5E=;Z,X%/TK%ENM M.M(T8+[HI':P&AGM;,JIMN=9QJ MZV.8'W#Y3+8(4?"29P6YT;.4[]YUG:RV*(_)#.]0P9ZL<9G'E-V6&YWL2A0G MM5&>Z:9AN'H>IX6VF-=M]^5BCBN;I06Z+P&I\CPN7^]0A@|W&M3>&KZFFRWE M#?IBOHLWZ`1Q]U]R>[TSDN2Y]@@^2Y B=8WVB\!CF# #6K$?RDZD*-KP*?R MA/$SQ_F^M4Z_KDAL?7;|X_U9-GDWF*-M"5KB[%N:T.V-YFL@0>NXRNA7?/@3M1-RN+\5SDC]"PXMUM#:JB(4YZTO&T&>-M%LU__-(2<63_*@<S-;.% WL$#P96:V"=VX/=&MCG]N"T!O74]6;N-7%A3./% MO,0'4'(T\]8O:O9K\)976O! >: E>YHR.[KXA\7BYV*%"Q22CX>>?R|Q16)BX0U7@SN_MY$IEH^5]Z]MV9'?-R,P3(f/ %US0+0%1D:!$81^.VP558 %/P+3,&W%>);GFUNJZ;RO]^B7>Q^0875Q8\7^K%-O4^6HC"DNKU4K MV|C;:EM>^ZJ)+EZA&XT5-X+*/=(6O_\&7>,/%:U3.@NG=!9-Y&RP`:W-/;8 M]SIQTR9QUR7.P8H%>U14:;$!;!=A2\/*, $QI67Z5%&4 (K!PVN!=^15F8Q- M;V[=&]]=]@O;=`S7G^O[X\6089;E>(8 "V48A*YIF|$0%)DXWS>"P.Y@ VZ< MCAOG7&XNLJHU10E*6E98G3\$DE-M\!1<*^@YT-+(5F&,,8M,*1R94"$0A2 MP,S 5=/C=O2X/ZI4G4/-54W7E>#*!0QS^4H99HOARQV/MQ5\L05-*%,O&ZQ-;$N BS',QH>)G@CS#MT+KAN%/O 2 MRG_QV$B>=$W9XLML=J)6JB,%I($9&07R"$'V_-G\)GQ_16L\:8VOL6=? M^C8'B41EIL.)3D#9,95$B?\8E&\:L^[=+QV(,I9E.#CN11\UE(MR-H-CD*% MZ+GVW36=3K.Y]BWYU]T/|CV1->4*,:@,-)Rl,7&E'Q9O:-&Y!LV%-NWNMHUY-M7T!:,W-?":%/A@TPO5C9'U!+ P04 "_!2AA=9&A/NG]$$!U&@ &0 M`AL+W=O^)W) LJYG%//[I2(U^S-KP\J9>?&>>`;8\S(M#5]T M_^;0?2 2/V@!W!E@VL(86)V!==>H(=F=@GS]"TQDTKINM?TW@PIC'BUE)`M=Z"LT8*MOFBBWUB+>*5%O5 >>"E^384=7SR0M4@[!V"EAEE54G C^!!+,>D MR@B@*_,N"=;6O*T6(/;HEV?=9[?AH3';<;>":M/#R%X^^8=> /2 GS;6RIWOFWTZ'^//@B&U2\8]^&S7E@PZO7PYWL! M![>9;;EO-78OB)=O&2S(WA.HQ4CX18_'I=\B%/ZG"KLLU$D6.2(; M),CN$V1/L2\^4AYG0L.?2%$150Y:<[.<;8=(-N1<-$89_D.="W4XP.^,KV_SJ2_5\G?0B9)`D3Q+,.-F1:,%DN9*.MWULJYW .+L0(2:XK8!!"SY4\'\,0%+Y#*9+1&.<+E&>X'7=[Q\U)QW_K_>W> M2:763G*<^\;I) MUDD6:R :)\I$>*\HB9[.!.DD"W6219K(!@GR^P3Y^B3" M'\F4BZ#CR^HXAMD!]@))2<(Q#'F. /]>E>" 1"ISE0\?RU!H1))X'YWHN^H%U M6]@\;ZD0.I@$O+ EOY4@2U9&-4K6Q9>X!BXCN-_2PC.%%7P%(6'IN@!7E=A1 M-R_FI7)G.LI

[MNHE2W4RA;I8AOFZ#M0*^HF1VYKC3I9 NULD6ZV(9IPOLT MX6 ,3';V ^&"+G9=21%NE$!H(T>6#@700A 'EB^IAP*(?8P<#QX1D'V+@R8W MZ.? 5BXYKN/^%OBL+IPHG(B!7@E"!0QCYCF?+_BN (E#^L9J!AT$FFXAS]H. M'9=<-N0M|6FP4 T;58X784//]I$TFFXFIDK!9VZ9$PRGJU%.ME"K6R1+K9A M;O;M#G)? LV1H;82TNI5K.V2)==,,,TH9A+F5/Z%D>&,A="W%H)BC'&(_32 MEB5CC!-I9!)6!8\5 4%N@>^0*!UQT%TMA@(,5>WPT\L C^CW$^]EQ?=G\, M|+O2A@>I?ZT/N,(FUPGS8//Z#DI MU\WY!0-+6A6\ 4#;/^W/2*Z:DP'I^36ZO$&*YV%HM)\MM_3MP&ULM5E=;IL\V%/TKA%<.+:!4(D5[:,,));&95BQ(EFWAV$/BDS; M0B71%:FD&,;C1T]*9,G7:M(R+ I8DGWO(^Z%+'G/QP,N/8L>81)_SK! 7LYV4 M^W/+$LF.Y;%XR_>L4+|L>)G'4MV66TOL2Q:O:Z,\LXAM>U8>I\5LN:B?O2^7 M"U()+"W8^Q*)*L_C\|\KEO&'BQF>/3ZX2; <[I1|8R\4>WK),>C_LWY?JSNI8 MUFG."I'R I5L7QJ26?=F-KP\)I_>>7,72S8BF=_IFNYNY@%,?1,777[C* MY U_^)>FU#KF;+^&9]# 10XNU9RBIA.1Y;ZQFD*=%)QU_;@-Q8*!X8 /2&I^Q M 3UAX+0&SE-'H*T!?>H(;FMOWNVUOM>!"Y,9+QS9;??X<]^T&L/ 8AFU*Y_9\ MB(N.<8%"^;2##?QU.W_=27\OYCUUGE+H5A*.4>G04 #G4MLFHY*) !PE M>$[G< C\+@3^9 A"MF%E.?9_G\4%Y+Q_- GB^H$]^'B/,"`[\436$ M7R2* "*74N=$>N>=I_-)3U=J74^+2KO)FR|"'|#329KG+C,FR4*39)ALDN ML-UO&>T7W FTY(9R9)0M-

,H6F6(;INE@9X'-=V2I/,#'>]1Q1_U^:0(=U1_'-M9FP+[J+HZXX[!P1T DK=$]L$3/I D"=NC-K*A;?),FSZ](D6VB4+3!%-DQ/ MKR/P2PH);%1)&&4+C;)%IMB&:>K5!/YV.=%2'+ZS'K;=8+R+!"]!_AS/&X6 MQSCLNT%PL%-J8P, G2S:+2>`T[#299 N-LD6FV(9IZN47GM9?WZ;%\;$\ L4XB'-L M.QBW$0 'R7$(YP2>0TXTD5Z8X6EE|CPYBB'U!0A2$ =(4@@'B5((-R%+<;_6 M\+1<>{(P,7FFE"D ;7IEZDBB&I"G))>$)')'G?SR4E>[2'62K75ZKIQ/I?XG MO619+/5+H!L4Y"_+.\P JHX*\0%=.1@"`'FV/=`RVP$X@+LGHA#KSC(M.(X M7CO1?^C)VGV;_+G-VBA;.)0M.L4V3%.OAPAYP365&-5)1ME"HVR1;9AFG|=_M1"8W^%^EWUM*; [!"0OH=!$+Z'0*"^AT"@OK=.CBMS)E:&O0QL5 N5H5LCJ.Z M#]U1|&5] #MZ?H7/5QAX'N+SJ#EH|NF;<^]W:B5*"X$#6M**V6]|U0++YBBY MN9%\7Y^5WG$I>5Y?[EB\9J4&J- \WG,O'&SU =Z" _!02P,$% @ 4H87 M6=9JLXFR! TQP !D !X,"]W;W)K&ULO5E=.M20QMM^W.9I)-^]#I 5&R81:0*XDX^^\K/@(& M9,9I-'FQ 9|SI*M[?*

*>"BQ8'0KRS!F(.G/"O84DLXWQ1.MLD.(_8!=GC0ORR-M)32/N#BE.YWM*8[BFI!GNFD8CIY::&M%O6U&[I:D))G:8%O*&!EGD?TVS7. MR&&I0>WYPFVZ2WAU05\M]M$.WV%^O[^AXDSO5.(TQP5+20$HWBZU*9K M&\B MU(@_4WQ@1\>@"N6!D*_5R<=XJ1G5C'"&-[R2B,37(U[C+*N4Q#S^,46U;LR* M>'S\K/YS';PQYB%B>$VRO]*8)TO-TT",MU&9\5MR^!6W =F5WH9DK/X$AQ9K M:&!3,D|REBQFD*=%\QT]M0MQ1! Z&=2#L'0\'<(L?<5%B)@ZRB.,8< (^[S&-]MPR\/-_(+)CD;I)-V *U&?#+P/ M,(_2C'T0]/N[+Q_]P&\ VD!OB2D9%$1LX7.Q7RK4?5-.[?K9F[FB;E9X|,I M>,) 6,0XEO"#>;X_P]?%.G6+93XOUK4Y*_A;F5T "_X 3,-$DOFLSZ=;LG!> M-WKXOT:L(- &:;/6%M|_QUTC)\D65 I%[@4"Q6) M#?%%NGRA.?75%\)%2FB3*5D.&KI3TZO[R^,*VJ;M(G^A/QXOKP1YZ6O3%+%3F2Z58H%(L5^0VR)?,Y%,>;/ M,IQXT/!&+A) (<,CT+=<<=V8,$)T"&=\(>X%%O!&6]M."4J@5*.MU4)5:L,,F'T&S+=SB78L55E3J18H50M5J0YSUG>&<+:,1.<,IK.F=WW$!\<_4IH5CN%+,\%|>2K5.MJ5JH2FV8@: ;.@_8;.H72WE"16J!4+52E-LQ:WQ_"V7;F#*=PIL*/O*@.W8* M"NL#7;[* U)YSL MZRVB!\)%W=>`"'8YB3"N ^'U+*"'\^]0;H|C%7_P%02P,$% @ 4H8765^1 M0S@:.! ?1 !D !X,"]W;W)K&ULK5A=;|lV M%/TKA%8,"9!$HKZ=V-0.6.XRH%W0M-LS(|&V4$GT2-I, _TN)46Q*4;QM|S8 M)'7>3A%7W\8[QV\)%|41/95&)B;62>! MK_ER)=6 /1VOR9(^4/E]? <^A9WLN*Q-,KB96;*&,+LBFD%_9[G?:+BA0>BDK1/V)=@TV"BV4;H1D9A6_M&91YU7R3H;(/0+HF_EN2W"/)?@MP=,)_BL$OR7XQT8(6D)P;(2P)82U|XU9 MM=,S(LETS-D. <84&-=6HMZMF@\%Y13+K07)XF@-/3N\]23D5$1$]0W_*%>7H MKDI92=%9\@3I*^CY\?'H"&?XVIHY+DA3A'E^C[PPR=?3A"U\]>H6\KMA'_%F-; MPH24K\VVP6^.X.XKP3'CS'JY$BBLIH9^+?#?.\M?C+,'PWP,3'T=&-|=O/& M'\13\|PK97R',ND.NXGFDIP_0_-@?0<4WW#?39\7113].3_9_ Y^(@'7GI=9GJU MGO>*GCD934G6Z/AF'74T7XLU2>G$@K-74+ZEUO377W#H_&;:H?<4F[VG6/*>_M8O-W$CO86;_;67]{(_>7,R>0--6WIH,"I6]J(A;68^J7=3G$0X6AL;_?WRH#"_M<:2ADC[*=P(G/D3- ^R@WC*.@0QW8%G2V\3;H,*IOC5BP=XJ+C&. M-E'G2Y4ST)(" M"J.^2)HAR50M0CF'-B2D,I?49<^Z(?)Y<%X|IH<|H;L:E'L;"8;4-@?Z2[W M45'H1]%FCP,?X\|^.UL53DJ2$$16R-A M.23I,D_AM-S"VP[5O32666'OS D'[&AY=`0W]QGVIN(f((D<_*>=#.@?._MC#IG1H/.U-7!!;JH-"U_D\M]#HMU< <1UHW]@RZC(-12+3&@1K&K:XH:>;,9N_=CDK*E_4]5L!)OZED4XYVH]U=^6-]0]3&;_'U#!O&$W6WKF|C M+_+-Q?PSX4MU^!5T :&]NKFB)*-< ><#Y@C'Y MW%$!NG\&PO=V]R M;W-H965TC+4K#440XS+C=V3S!>IZ',D7 MDHRI7[2!?0T-A27C)*_!(IL\+:L_%3KI_<0/.T JP98QX#^_P"!#MBOC="O M ? W71G!f@"I=KVI?P@688W]$R091Z2W8Y(=27Z&%7FdA]\DJIV(V%3CNWQ0A MR0$IX"=@Z!+-*5FG;@^(+8@.)G$1H5D<@U!9:4-WF M(]P",TXQU!?SQ/D"= MBRZZ0&F!'A)2,H%B(VV+3&4\/:RSFE196<]D9:,;4O'!$H5D10=2"#\]CO3-X M2C4R1M99I89PF_EED/\>9'9E0R6?Z>OA=ELY_Q=]!L_1#]2PFSUC*S[[MQ3V#@I2%&6$E!?3C>L$X%0?_9]MZ5X5]=D9Y&0[9"HR-R_Z6I=\\2_\<^W99%B",+H@#]$9@6G+]9IF=X^_0;W;JYQGFP-A%/:C<;2IWSE.^ MN[4Z"R@@3GE7W5\O:>"'<9'-I&P/3.M*@Q^#;_2,!3KTL; [-G MTT'|;E,_>[;^W;4L2D547,MMU9[GZ QZ5\;[;MMQ>P\H]N1SH4K47#(6D+'AU>376IH.Y5@_WD7UB#]=FBST0'4_5 MH.SH]W,I%M-E6C"402Q^&;V'6$9:M2#5\2.)5>F,7A(L76WTFHFL#*AW$?$P(.MWPYD@*8]/\"$4K#!:0 (_%*&%UF#>?]C@@0_'9 >,PO=V]R M:W-H965TR^?K1=$]DM/++U. MJU:U>YNF:1_<<$FL!W9F.TTR[8_?-1 "&6$ODJ=]23#X'-OGF&M?,]D(^44M-M 3399BE74V>I]>K&==5\'1E5/;$"CD\2(3.JL2@7KEJH'$.RE+7[_=';D89 M=V:3_-*

*/[P)K*5#W.@0OZ#TC_N4K2>PEFQ)(UOR<|,_@H];.9W$\7CR3?IW MV8V#,-B3_N.&__@@_UN!'01G_R+|%78.NF(^*^'"%,A L4U5&[AD5.G*X"T1 MV*/@$6+H/706Q<%7/G=W>P)KJ3-IU)F\H**8]"E;3V MV4X:V4Y^;E&<=''1[-M'"UW)'2817$4[2F),/C.6`7_ORCH!ALA>L=A@)WX0%,.1 ,>'$)M"[U-MY+[2V4#L=:/B"ZJ,FTY=T/;&UI? O.;88'N\{?KY$;?]J:F+DYEU,[J3!:XX,YG@3!64- M<'TH7F=_P=02P,$% @ 4H876&ULS5AM;Z-&$/XK*WJJK#KLHN=5O?C,W;!Q#C$35H]W1<,EIEG=N89/V9V MLN/%)Y$ 2/*09TO,C43*S:5IBBB!G(H+O@&&3U\R*G$VV)MBDT!-9.>68Z-MEN6;.4V9.9OHM>MB-N&E%(&UP4199[3X]\%9'PW-6QCOW"3KA.1%LS99$/7 M< OR;G-=X)W9H,11#DRDG)$"5E-C;E<&MJ4S$P351]=QS_DG=7,53 MPU{[@@PBJ2 H?FUA"5FFD' ??]:@1A-3.1Y>[]&_U\EC,O=4P))GOZ:Q3*;& MR" QK&B9R1N^^P'JA#R%%_%,Z$^R]VTM@T2ED#ROG7$'>+6#3MVL%"ZBDLTG!=Z10UHBF+G3U MM3?6*V6]46YE@4]3!).S>125>9E1"3'Y*!,HR)+GV'*)ZH4MD"L6\1S(V7LN MQ%MR3L+5"BDF?$7F.2^9%.0&HHP*D:Y2A,!65,]"&B4;B#-@E?6KXJ1,8/1R,\)+P5El9B8$JNJ:F-& M=04756.09RKHD@^<^@_>D6^;Q'_BKRE5;+FA&6:0Z MXZ7-\]MfA"=7$G+Q>U>G5'L9=.]%:?ZEV- (1@9""RBV8,R^_<;VK>^Z;.H3 M+.@3+,P)K$7HH"%'<_K]";&B$@N&8I%JDKIXJ2!]#:G^,K-Z?ML]f+)R1B. !,6OE[C6Y>_^0^Q98"8})\)G<,7?PNRI&_L MUS6^#@AREJ&N 2H;!G@,1,JEZA\8:R)D4:IV%^]TD5 I)7V 3]%[&?VU[=LG M6- G6-@36(M"OZ'0_XKTR.^3T#J!@C[!:PI[6H0.&T*'_>M1!>D=ZI$_&A_I MT5.C<]OUG",]ZK+RQNZ1'G596:,#V6KE/FIR'YW,_>,&"DR:K0D\X.0B_C]E M.KF/US9RGV!!GV!A3V M,L<-F>.O2)G&?1++:)UC0)UC8$UB+4-MZG.VL_K6I MQFRIN_BY?21.75;N:'ST3A5TF0W$8W7JLKQ /"Y,D\F'-S*:z@&$02 VB MU4C0K#;'&',JnA^M+^S+I=VQ'JA##MSU7/\)7)R8?z:-,%68L!"D-9%T1/4TJ(ZMA*AN)-_H*? N>2YS9I64'"%/5,&>#S%>=R?Z,"-$=!LRJ02P,$% @ 4H87 M6;TN>=EI @ 2 8 !D !X;"JW;W)K&ULK55= M;],P%/TK5V9"FP3-YP;.--+6"6U(i$U6KP0/BP4UN&VN.'6RG'?QZ;"<+G915 M3.*F\<<|)^>*BYT%-2&=.%WQEN--[8W!.5E++>MN\E-.26A$X0<"^,8[*UL<8:<.R(KXV?/2897,N#^^>)'ID_=NO:RHQIGDWUAI MJBEY3Z#$-6VY6^(_&? PGA\[_^JO_Z;W3UM32<5+8PFTEJT85&E-_W:,\TO7';&>^AV#O7ON>NPM51LF-'!<6_IP\NZ4@.KZ5C"1_P%02P,$% @ 4H8764EL M1_1\0 I2T !D !X;"]W;W)K&ULM9IK4^,V M% (;_BB;=Z<,O;?$26C(#.#;=DI'@=WV0Z_A";,>\SU%R7L<'2;,-94]\18A W],DXY>#E1#K"TWCX8]DF),3-CF M:0TEBE.2\9AFB)'%Y>#*N B,22$H M(_Z.R8:O'"/BHSQ2^E2R0U)DH(DQ_&MA@Z:G(5P M]_B5[H4?7GZ81\S)#4W^B2.QNAQ.!B@B"YPGXIYN E)_H%'!"VG"R[!H4\?J M Q3F7-"T%LL1I'%6O>+O]1>Q(Y"@54+K+ <":X]#O 6 N&APYI M5 M&AP]K@7VHI1G&N6&!\,(9+2CMHE7E*&OI8(^G,T8WB!?1DE8%SV(1$XY.'")P MG//3&?3 UP4$GGT{1)Q1GZ,N*YAQG$9]I0@ZO2***%|5"NJZ&8>X9BH%N:B15'-M;A:1J$?OJO76>WI?K9\]fJ)K\6IOOUGS|;J\-)? O^GR.+/T,F;II|8SG1BV_ MRI=2;NR5.VKY+7Y1J5VU^H\|:9(/>^3>X?*^[//|90_^=_96(:WF)K%*GK6O MFH?VP9%B1"#RO,R,Y=P=&_?\IP]%F0E/_7Y_J*/>QG%)^F"[I& (;D#Y^P%\:+CZJNMDG9L;2%A#B3,M3MWU%"?=FKB=<-LLUIZOQMFV%/?=R-`M.PUK_WT\:FH\5M998U307T=77:1I,UID:Z5^&.++@ES(&$N).R#A/F0L-(UK+B M1+'BY /[UPFD#R%A#B3,A81YD# ?$A8 P5H^G#8^G"I_$BOOL1WO<2)$0E^2 ME/84_,]j/"@4SI0L(\2)@/"0N 8"W# M&?IV>DM76ZZQ%JQIIW2D#FA2%Y3F@=)\4%H 16L;<6>>U?CY=M CCRS';']/J$YR MM,,@:0XHS06E>;_T'Y060-';QC2WQC0_L#FLX5"&A*0YH#07E.:!TGQ06@!% M:QMR.]EN*.=0@;M$=;*C#0HZ_U[36E,4^F@\?=-VNJ!9/5":#TH+H&AMZVWG MUPWU/0'=HN@T_"@-*>FO=-[NJ!)/5":#TH+H&AMC\[`57-SV(L!!W>)5OLRY MV-\K@JX(@-(<4)H+2O-:3XH+8?MBE1Y;8P[(_L%4&7.4;II#BC-:5YH#0?ME!9 T=J&W*ZQ&.I%%N!>`<=Q=^+6FNM5^"MZHQW2T\T!74T!I'BC-!Z4%4+2V M\[9+*H9RIOR#6\7)(>W8C7J(1QL1=#D%E..!TGQ06@!%JXRH[>SE3 E;EOMZ M.0IIGHEJIU!SM=D[? %7NF'US_=JX<(R>ZZYQX?5=|XL|R.6>TFW:.@/S+6;+ M..H(0LY!/U\+'\@6;4GN#H1=%WN.'VD0M"T/%P1+-U>|,CW%Y2*UY.B0,.S M>_X#4$L#!!0 (%*&%UD<2DV*! 8 *LI 9 >&PO=V]R:W-H965T MQCV MP$BT+402/9%.TOWZ49?H2FOUP@)^L74Y/.3W?=21CL3E$RL>^)92 9ZS-.<7 MBZT0NW/#X-&69H1_8#N:RS-K5F1$R-UB8_!=04E<-K977L MIE@MV5ZD24VQ^L#W64:*++Y\G>-BA#N6?LH=RYEB\69CDBFM@(*H'_Y,D\F'-S*:z@&$02 VB MU4C0K#;'&',JnA^M+^S+I=VQ'JA##MSU7/\)7)R#DQ&=+]LK6R!5K90EULP[IV+AO-?V!^O0RYDT4/R+3- \;H#!0QB[%AC M&9K";,\=LX4*&,9F[W-:G0VCM_@LH\6F6O7'99S[7-3KBJ[C[UNL&_IZ&>,G4FR2G(.4KF57Y@=77L!%O3*PWA%L5RU!NV=`ML*S:W%(2TZ($R/- KQL3+3ME!NSYS]2]02P,$% @4H8764\#9^%)! M1!0 !D !X,"]W;W)K&ULS9C;,N,Y$(9?A5"+ M(@$22Y3D4VH,2+QINXL&"&PDO2AZP4ACFP@E]B0=QWWZ)259/]S,U(D6V!M; M!\ [/^8;TI'P$"RZ>Y0) H=>$!7+H\)3*KEQ71@M(B&SQ@*+!9L9%0I2^%7-7 M9@)(G C 5\Y1E.X%7G+NDX2(!0TPOAHZV-D\F-#Y NVDIFB0D3E,03UDI+T>N95*3!-()>4U$ C ,.M? X:HS{)B ?\4AA)7>ND4%Y MXOS9W:R.AXYG,@(&D3(21'^]P!@8,THZCW]+4:>:TP3N7F_4:?\OA- MRT+L!/B=(P%^&> ?!K2/! 1E0)"#%IGE6)^((J.!X"LDS&BM9BJRVN31FH:F M9AFG2NBW5,>IT53QZ/GR1AZ-TA25[?2S356R9>,D!\AJ8+(J <=D_6 M>AT5NEX1$5^@"4@E:*3TFUP,/:14R0OT2-

*Z3GW6J>,PY,D:IUE5.[N(!6;J>,Y^QO/;+'4YH8!FZSH EY ?UX] M22RY%4O,,N"*'4XD)%/GUKN)O*$!Y#5^9K!1M6MBAO(JQ!=3>(BG3M_T"%*8 M:T-!\>\-|B%-#1/VXX^2U*G;-,#Z]9[!8SYX',PK57 OTE!8K)=3Y\HA,21T MG>IGL?D$Y8#R#LY%JO)?LBGK]ATR7RLMLA*,/<@8+_[IMA2B!D"}>=H!? ORO M!00E(#@&C$X !B5@< P(3@"&)2 ?NEN,/1O; YR(#\A/=@B(?R&T<,V,@37 MD%R\NR3O",/DD;4I5E 35V-G#*4[+ON^*QKV3S0WT'@HHJ5E/Y>RCN_D_'[==HC@?>>^'T_:!O0U\,'>/[AO\XUWNX M-VZ!1]WP1!HCWKBM!PT@FI:!3E=<(*NF$^__8"WR8.&3/W>-D,*CD$[APF1 M-VI%YS!U, 8/DB& @S+!]QAOUOVM3UR99:),LLD36,&)0&3'H8I^];*K76L@=-M22 &B>|U*]YX3;=$4@UMOG12GNM+0>85 5^B,+<6=DTPB;9*%-LL@2 M6<.(<67$N/,UB)1FN'F F*R$!JX91X8YKB756 V#FM<=&6Z8WR!EQ+F8L'9 MGUC;A*57X) PW;JIZ&SU7.L*LE$],AV%)9O-19;(&GY<57Y<=8INZX6*F=(I_6?$%QM_H7^2@D9OGOLU-F>V60+K,)%MMB;!OH' M>WT+\;\DL66'3;,0*EMDBZUIQR$Y\SI3SMGM8B%A@4$PCVI4*5 JPUA(+B0D M& O6!VQFIU;90M++MG]XI(?>>!E5=;R@5NE#<-TI9*)--0!9MM>=8N!7%*(2 M0@_G9RO 7\UPWE,>X\JB 0>B6Y6UFF];90M+MKJRGG>LI'^1;WN'A-OKSKB? M()P,U<63 -5!]. M9G\#4$L#!!0 (%*&%UGD,T"&PO=V]R:W-H965T MFTM'#N5KRW\^YV=D)4MS20$+XG/\?? ==5Z?+^E&FWN!]$#V4$AEQ\$2L3P- M0YLOH>#V2))>@Z,MKGIB9+]0JE4# U MS*Z*@IO',Y!Z,PYZP=/$M5@LT4V$65KR!=P W1930U;8L,O$ Z\T7] /],!Y<2^N?,%.M M3? H!RU<6=5$A5/7F#_5&; 'B> <@K&QUUTY\BHO./(L-7K#C%M-;&[@ M0_5H$B>4R\H-&OHJ"(?9N58HU)4+L"R_0M +]0]8(=L @JU825'&C 14"RX MW\@)A2;""G)L&F(L)QA7GM\;SR&,_P^'6ECE@\'L#BJ#=DMS<7;'_OX#E- M2$$TD<1-)+'G/=[!>Z6M9<_#^7%%;!@E0F%_M@FM"$_;"5TJG-J2YS .Z,!; M,&L(LO? O>DGTL4/N<2/WN(LJF_)\MQH&546D!#@DEE E.!GV]16?(GG<\6Y MSD)^&JY:-)PT&D[^H\'G-C>T=8=2Y%1LP!!,T>;^FVK 'H$;V[$Q_494OY-I M(10H5]T2.H$OS%? 2R$I> ^W@E;R!WT,@===*=6N]0*.E5:P2'21>H3*U15P_F2 MFP6TB1[!<\JB]D,V;)0,N_/)'W;ELQ/XP@T:-,)&KYW/T1O(45_+NKH,3): M\VZG-/[!X@BW.HCKQA,B$\K2Q30G4'0TH-(5!58.K#-2E;RIW&JE%^>&2?@K MN 7T?;Y),FVX/M7\9F2_ 5!+ P04 " !2AA=9#*:TL&@# "4%@ #0 M 'AL+W-T>6QEI5/!|\XKYD]:DN,AR*C229#(E2G? EPBMR24E<@%/*O7ZQ%WHI8<*=_MC,0JO4Y5XN'[YW'4,WS6(Z=N_/WOY89>KJC6.N)^], M3GKWYU>[!K,2.'<[*^GE$T@O>CBOQC#JL$M=#R_)SMH>YC[W$^[_]<8P=!" MT/JB;I$!,B[*)$?MVXC^_D=5O@+W+/^@C2>[FV$S7]\IT.DHR MT59KX!J#YB- (S=Q]E)GO/-1\X6([5F\D\..!F1VL]9 M9I+]TM&@5,,:0*7K/%"IV'S;\E.2_(ZN55U.ZP37W#]"S? \VSPLJ"\6[2N M_4/:\HL5!X/7DES>578%6S569X9#%WEY^:"'#Z/ U5B>N0Q=Y%/MF> PBCZ$F M!ZIV9W^.2\81/8/4J17G2FW#92=8VMC=>#U8.Q^@<]<-W@9U9BO&%1-5;\GB MF(I'IU=-K\A,OW)W^/7XF"9DQ=5=-X[=MOV5QFR51LVH&TA$-:IM?X'IZ;-P M_6ZB8S$1TS6-IU57+F9ET]$-';7Z@,,N(7LKP-L3?=5"#93O!*QF>*Y!L2>-_"((OMJ8W'-M UL%K'8@OCT.U)3=)PA@53%MV-[&D2C"$*A%>XV&(9*=$+[V]<%V21!$D1T! MS*X@"# $=B,.8 L X8$0?D>?5SRFO_#SWY"U!+ P04 " !2AA=9 MEX]I', 3 @ "P %]R96QSG9*RYR96QSG9*Y;L,P#$|_Q="> ,.?0(8@S M9?$6!/D!5J(/V!(%BD6=OZ_:7&0"QEY/3P2W!Y10.TXI+:.+]1C|$%)6M6X M 4BV)8!ISI%"KM0L'C6'TD!$VV-#L%HL/D N&6:WO606IW.D5XA-/E_G;@2=&A(E@6FD7)-MTZ(=I7\=Q_;0T^FO8R*T>EOH^7%H5 J.W&,EC"%BM/XU@LD/[^X 4$L#!!0 M (/%*&%UG/4:6ZS08 .$] / >&PO=V]R:VJO;VLN>&ULQ9M9;]LX M%$;_"N&G%IB,8ZUVT11(XJ03(!OB(*\%(S$Y42T>4LK27S^'D'*=7B?UA7F[] MY&@0'XE%;?:\+W;P<#+[_"S40I:YTJ?^L_&"P/Q!V43_\4JOO]ZK:6ZOV=7YV?3PUAT<'9X?7AZ?" (9 ,A@AY__@(9 LAP)Y"S6_=Q M<7))(", &>T0LA?)&$#&NX0,"60"()- =0D8$,@60Z2XA8P(Y!!C7LBILIG1 M2W]>U_BJ+6Z4M82N F F_#"S=]RE,;%@\WTO-+N:[!)QO&&6U6W5:#J{(Z-1 M?)\)YAMIFSJ*Z;E4NKI;*K&ZA>% R5):Y5E7N9.O"]F_K_OFZ[@\K^])C1(X9 M,4MFW>[$<5W>Z^IC)%,1LQRN5&/RM4MQ4$6&3%KY'M=YT^Z*(2LX M===$\U!)+FW6OLI%##1LP2.97:B#M9M$I<*&E;H\KW443Y&#'KX\CH?*Y\]9:Z M\?>*<]6X+/\O<;M,23/8$?+(B%DDYRYTB@8M0+X(F'UQHW+E"O%]]K*N]KP[M_#3+C]&N.]_F%%R!O!,S><)MR]9=\%9K%LITO=BHA:JLF]!13#@]85;'K*FS MG^)&+5N+5PU"S=#GAM94CYDCX#9'AW?WI$CR[L NNAU-U$^]. 62>7KMRS M*]M+))3Z=U]9^%M>N]F<+:?15C%P2,+MDIN;=V.(3K;+V@R E0Q8)F"WB^ZM1 MMNGLL>HDZUB>/"]IF,@B ;-%7IENY7-_%$3]")C5<=RES'/E)-R'0J((F$5Q M+5_$H_4]H/NZ3V V-KH0^2-D]L>9&W]SU])NC5PE]L:X'/!#8A B>83,\H!3 MM_Y3(R2/D%D>6Z9NXM.MUW,OFO#IU!^9@:RQ/E,NY(YPIU,1FOZ%R!_ACN8B MK_&DF$@FX2ZG)/T^@V02IF9*LJG/(+^$'Y9Y?P;NPPR3,AL&)A5]RHY0HZ) MF!VS+;.O^Y&4B)D?(6S-;DNL-F$@S$;-F0(M22DFTDS$/57YD&=OZCX17$)A M-@Y,N/O=!QDG8C8.3;@WQA!Y)F+VS+:D9T\V8,U=Z3C&1 M9R+N%12$V6^1R#L1LW2=F]LYZWO#:95]7FKM@NJ8@YW.CYA03>2?^0]../]9_0&!DUM!I1(S<_M$S.[YS=F-TZZRRY5/ZM69>F:8L(%?&;WP$E9?YL!LE#,;"&,V1N0D(5B9@MA M3+K5($86BIDMA#'I9H,862AFMM#VF7@W=-+=)}Y M+.U"G!;U$\5$%D]9+?2&N8I? MXW&=_9N_M[V*AU9*&6VT!OF:=OXYX07_<%N6' MMA37\L5_DV(B"Z7,%GH7S1N5*R%W<.""ER$(ILX7@C]#^@ 0W-#-;"%]=T+0X M119*F2V$,7N[PY&%4N[=S=N66%8#/L$<(PN-=[42Y$92=XEB(@N-=[42]!$3 M66C\)W:K;<%TQ5-,9*QCC:M;6B;R$)C9@O!:/&S3&RT)C90G#Y;]JK=&2A M,,:%-BS_T=R38B(+C9DMM!'S]X-CB@E? K&&V$,3LMTUDH3&WA39AOC[HMH*^ M*#E!%/]P!WE#Z[XT]9@@"TV8+=1,]!WS]O0,,D!RI3E@BHDL-&&VT#O,]_-+ MBHDL-,%^]Y-N$=VXNC9!]IET]AEY-]MO7W/UH"N57[JBK3N?R2*[-L)_^))& M013[=Q0>V](X=N>NJO-:YNLWE-=O5W_]#U!+ P04 " !2AA=9MO4_!K8" M !1-P &@ 'AL+U!R96QS+W=O@,.1-3\]$)1DU/,N!]$%?-$19E/E6R$GXN1=1(^0 M\>-+/;3COCL-N_UY6'P>#Z=AU>S&\?S+N6&]]\=V>.C.]72YL^GZ8SM>EOW6 MG=OU>[NM3I9+<_W]C.;I\7[FXO7K7/]G8K?9[-?U=[?^W/7#/UPF-XOGMU73/[_YQLT=)! D\P<%" KS!RD$ MZ?Q!$8+B_$$&039_4(*@-']0AJ \?U"'!H#)_D%^BC$N"[G6!%[IY-H3>.T1 M;$\@MD>R/8'9'M'V!&H]9-L3N.T1;D\@MT>Z/8'=O'V'!H+ZBT$>@OJ+01Z MR^3'-H'>@GH+@=Z">@N!WHDZ"X'>@GH+@=Z'>@N!WHDZ"X>@GH+@=X!0X$ M->@?4.Q#H'5#O0*\WF&R6$.@=4.] H'= O0.!W@'U#@4IZ!]0[$.@=4.] H'= MO0.!WHIZ*X'>BGHK@=Z*>BN!WHIZ*X'>.MGL)M!;46\ET%M1;R706U%O)=!; M46\ET%M1;R70.Z+>D4#OB'I' KTCZAT)] (ZH=R30.Z+>D4#O./F5DD#OB'I' M KTCZAT)(ZH=R30.Z+>D4!O0[V-0&]#O8U ;T.]C4!O0[V-0&]#O8U ;T.] MC4!OFQPV(=#;4&\CT-M0;R/0VU!O(] [H=Z)0.^$>B<"O1/]G0CT3]AW(M [MH=Z)0.^$>B<"O1/]G0CT3I/#@@1Z)!0[$>B=4.]$H'=&O3.!WAGUS@1Z9]0[M$^B=4>],H'=&O3.!WAGUS@1Z9!0[$^B=4>],H'>>'/8FT#NCWIE [X]Z%P*] M"^I='/0N]'QB_#G6X]7RO\?D_2?5X^6Z]/?ZZ_+XX M>7NO.+O[BN'1+U!+ P04 " !2AA=9N.0S3$8" "-0 $P %M#;VYT M96YT7U1Y<&5S72YX,6S-VTUNVS 0AN&K&-H&%B-*)*4BSJ;MMLVB%U E.A.L M/Y!,ZMR^MP$;)$;#5R@[\;"37*^$0=X=K[Y]C1;OSH,_>@WR2Z$^8,0OMG9 MH?;I--LQKFPG-]0A?G7W8JZ,??UOA;R^Uf*9QF#'L ['&LGMS2>[K1_ZL/I\ MB#_[;AHWB;.]3U8?3QN/69NDGN>^:^H0U\7CV/Z6LGY.2./)98_?=;._BAL2 M\6;"<>7/ <_GOCY:Y[K6KNYJE%[/40]PE#KWPX:FW/CU?XHT>]^VV:VPI-0]# M/)+ZV=FZ]3MKP]"GIZ)7YY-#O&%[^LPNSE_*G N,.^_<-/LX,6?2'_Z\Z_XFAA+7_Q^]CCMUK9_F1VO]\? D]LL\O%@>E]_QKS-^K?_./B2D MCQS21P!0T'ZT)_^#*2/$M)'!>DCNZ8T0A$UHY":44S-*$AF%%4S"JL9Q=6,M FM&D5529)44625%5DF155)DE119)45629%54F25%%ESB[PY1=: <(FM.D36G MR)I39.TILN8467.*K#E%UH(B:T&1M.#(6E!D+2BR%A19"XJL!476@B)K09%5 M4615%%D5159%D5519%44615%5D6155%D5119-45639%54V35%%DU159-D553 M9-44635%5DV1U5!D-119#4560Y'54&0U%%D-159#D=509#4464N*K"5%U(B M:TF1M;3(6E)D+2FREA192XJL)476BB)K19&UHLA;462M_]>LWZ=[_X_CEV$UL4$L! A0#% @ 4H8760A4,*W2!0 MPAX !@ ("!#0@ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8766IO#@W!"@ 40 !@ M ("!,1D 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% M @ 4H8769-99]]%#@ X8L !@ ("!RRT 'AL+W=O# & @('F10 >&PO M=V]R:W-H965T&UL4$L! A0#% @ 4H8764+F-5(8"@ MSQH !D ("!B4L 'AL+W=O&PO=V]R:W-H965T)? !X;"]W;W)K&UL4$L! A0#% @ 4H8763(\=82K"0_A@ !D M ("!QFD 'AL+W=O&PO=V]R:W-H M965T&UL4$L! M A0#% @ 4H876>U=HP]Q P '0< !D ("!?\ 'AL M+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H87 M6>S)A&7]"0 2 !D ("!VYD 'AL+W=O&PO=V]R:W-H965TJJ !X;"]W;W)K M&UL4$L! A0#% @ 4H8768UDZB(3! &PO=V]R:W-H965TH MU 4 #<. 9 " @?&W !X;"]W;W)K&UL4$L! A0#% @ 4H876<|.+6F3! W0L !D M ("!_+T 'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @ 4H876541YK\;"0 TA4 !D ("!)<\ 'AL+W=O M&PO=V]R:W-H965T&UL4$L! A0#% @ 4H876:)N M#AQ$ @ B@8 !D ("!%>, 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8766:@9&PO M=V]R:W-H965T&UL4$L! A0#% @ 4H87608&PO=V]R:W-H965T&UL4$L! A0#% M @ 4H8766UY$;9 P 70D !D ("!(!0! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8767(W@'K- @ + 8 !D M ("!.2\! 'AL+W=O$" "0!P &0 @($1,@$ >&PO=V]R M:W-H965T&UL M4$L! A0#% @ 4H87654)C(&Q!0 QX !D ("! SH! M 'AL+W=O&PO=V]R:W-H965T(P0 # 5 9 M " @<1# 0!X;"]W;W)K&UL4$L! A0#% @ M4H876:XGP9@#!0 $R, !D ("!'D@! 'AL+W=O&UL4$L! A0#% @ 4H8764#F:5/!| M0!X !D ("!\E,! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8767X&PO=V]R:W-H M965T&UL4$L! M A0#% @ 4H8766)EBBT5!P J2\ !D ("!-FT! 'AL M+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H87 M60:_9^KG0!.# !D ("!RWL! 'AL+W=O4" !0" &0 M @('I@0$ >&PO=V]R:W-H965T&UL4$L! A0#% @ 4H876?DA"=V' P ;! M !D ("!KX&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8766:_ 2^#@ !NL !D M ("!ZYP! 'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @ 4H876?O;:VT? P F H !D ("!-[$! 'AL+W=O M&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8761-L M$IQY @ M08 !D ("!+KH! 'AL+W=OC^Z&'P$ <& &0 M @('>O $ >&PO=V]R:W-H965T&UL4$L! A0#% @ 4H876&PO M=V]R:W-H965T&UL4$L! A0#% @ 4H8761Q*38H$!@ JRD !D ("! MJ-$! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% M @ 4H87690Q2FH"\ @ $0@ !D ("!?-\| 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ 4H8765^10S@:! ?1 !D M ("!,/H! 'AL+W=O&PO=V]R M:W-H965T7[C@@0 '09 M 9 " @=@! @!X;"]W;W)K&UL M4$L! A0#% @ 4H876>0S0)RF @ <@@ !D ("!D08" M 'AL+W=O&POH- @!X;"]W;W)K8F]O;RYX;6Q02P$"% ,4 " !2AA=9MO4_!K8" M !1-P &@ @ 'D% (>&PO7W)E;',O=V]R:V)O;VLN>&UL M+G)E;'-02P$"% ,4 " !2AA=9N.0S3$8" ",-0 $P M@ '2%P(6T-O;G1E;G1?5'EP97-=+!GAM;%!+!08 9@!F $<_!)&@(" ! end XML 107 Show.js IDEA: XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w){if(Show.LastAR)Show.hideAR();var e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0);e.removeAttribute('id');a.parentNode.appendChild(e)}} if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function(){Show.LastAR.style.display='none';Show.toggleNext=function(a){var e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var d,p,;if(e.style.display=='none'){d='block';p='-'}else{d='none';p='+'} e.style.display=d;if(a.textContent) {a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 108 report.css IDEA: XBRL DOCUMENT /* Updated 2009-11-04 */ /* v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } .report table.authRefData a { display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; } .report table.authRefData .hide a:hover { background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } .report table.authRefData table{ font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white; border: 2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re, .report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td { border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space: nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more { display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-size: 1em; } XML 110 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.2.u1 html4234101false1060false9 falsefalseR1.htm0000001 - Document - COVERSheethttp://www.synopsys.com/role/COVERCOVERCover1 falsefalseR2.htm9952151 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETSSheethttp://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSCONDENSED CONSOLIDATED BALANCE SHEETS2 falsefalseR3.htm9952152 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETS (PARENTHETICAL)Sheethttp://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSPARENTHETICALCONDENSED CONSOLIDATED BALANCE SHEETS (PARENTHETICAL)Statements3 falsefalseR4.htm9952153 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF INCOMESheethttp://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOMECONDENSED CONSOLIDATED STATEMENTS OF INCOMEStatements4 falsefalseR5.htm9952154 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOMESheethttp://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVEINCOMECONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOMEStatements5 falsefalseR6.htm9952155 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (PARENTHETICAL)Sheethttp://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVEINCOMEPARENTHETICALCONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (PARENTHETICAL)Statements6 falsefalseR7.htm9952156 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF STOCKHOLDERS??? 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Excludes amount capitalized." } } }, "auth_ref": ["r577", "r582"] }, "us-gaap_AllocatedShareBasedCompensationExpenseNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AllocatedShareBasedCompensationExpenseNetOfTax", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/StockBasedCompensationStockCompensationExpenseDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.synopsys.com/role/StockBasedCompensationStockCompensationExpenseDetails"], "lang": { "en-us": { "role": { "totalLabel": "Stock-based compensation expense after taxes", "label": "Share-Based Payment Arrangement, Expense, after Tax", "documentation": "Amount, after tax, of expense for award under share-based payment arrangement." } } }, "auth_ref": [] }, "dei_AmendmentFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "AmendmentFlag", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Amendment Flag", "label": "Amendment Flag", "documentation": "Boolean flag that is true when the XBRL content amends previously-filed or accepted submission." } } }, "auth_ref": [] }, "snps_AmortizationOfCapitalizedCostsToObtainRevenueContracts": { "xbrltype": "monetaryItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "AmortizationOfCapitalizedCostsToObtainRevenueContracts", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 14.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Amortization of capitalized costs to obtain revenue contracts", "label": "Amortization Of Capitalized Costs To Obtain Revenue Contracts", "documentation": "Amortization Of Capitalized Costs To Obtain Revenue Contracts" } } }, "auth_ref": [] }, "us-gaap_AmortizationOfFinancingCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AmortizationOfFinancingCosts", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Amortization of bridge financing costs", "label": "Amortization of Debt Issuance Costs", "documentation": "Amount of amortization expense attributable to debt issuance costs." } } }, "auth_ref": ["r158", "r512", "r1149", "r1257"] }, "us-gaap_AmortizationOfIntangibleAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AmortizationOfIntangibleAssets", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/GoodwillandIntangibleAssetsAmortizationExpenseRelatedtoIntangibleAssetsDetails", "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReconciliationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization expense of intangible assets", "negatedLabel": "Amortization of acquired intangible assets", "label": "Amortization of Intangible Assets", "documentation": "The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, "auth_ref": ["r14", "r442", "r449", "r956"] }, "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount", "presentation": ["http://www.synopsys.com/role/NetIncomeLossPerShareDetails"], "lang": { "en-us": { "role": { "terseLabel": "Anti-dilutive employee stock-based awards excluded (shares)", "label": "Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount", "documentation": "Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r1168"] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterOneThroughFiveYearsFairValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesAfterOneThroughFiveYearsFairValue", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": "us-gaap_AvailableForSaleSecuritiesDebtSecurities", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel":

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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r391", "r774"] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsAmortizedCost": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsAmortizedCost", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": "us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": ">10 years", "label": "Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year 10", "documentation": "Amortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing after tenth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r1169"] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsFairValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesAfterTenYearsFairValue", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": "us-gaap_AvailableForSaleDebtSecurities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": ">10 years", "label": "Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year 10", "documentation": "Fair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing after tenth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r393", "r775"] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAbstract", "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Fair Value", "label": "Debt Securities, Available-for-Sale, Maturity, Allocated and Single Maturity Date, Fair Value [Abstract]" } } }, "auth_ref": [] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAmortizedCostBasisAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesSingleMaturityDateAmortizedCostBasisAbstract", "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortized Cost", "label": "Debt Securities, Available-for-Sale, Maturity, Allocated and Single Maturity Date, Amortized Cost [Abstract]" } } }, "auth_ref": [] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearAmortizedCost": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearAmortizedCost", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": "us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "less than 1 year", "label": "Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, Year One", "documentation": "Amortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r1167"] }, "us-gaap_AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearFairValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearFairValue", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": "us-gaap_AvailableForSaleDebtSecurities", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "less than 1 year", "label": "Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, Year One", "documentation": "Fair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r390", "r773"] }, "us-gaap_AvailableForSaleSecuritiesDebtSecurities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AvailableForSaleSecuritiesDebtSecurities", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesCashEquivalentsandShortTermInvestmentsDetails": { "parentTag": "us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis", "weight": 1.0, "order": 2.0 }, "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofMaturityforShortTermAvailableforSaleSecuritiesDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesCashEquivalentsandShortTermInvestmentsDetails", 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Commitment" } } }, "auth_ref": [] }, "us-gaap_BridgeLoanMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BridgeLoanMember", "presentation": ["http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Bridge Loan", "label": "Bridge Loan [Member]", "documentation": "Financing which is expected to be replaced by a medium to long-term loan. The loan \"bridges\" the gap in time when otherwise no financing would be in place." } } }, "auth_ref": [] }, "us-gaap_BusinessAcquisitionAcquireeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessAcquisitionAcquireeDomain", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails", "http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Business Acquisition, Acquiree [Domain]", "label": "Business Acquisition, Acquiree [Domain]", "documentation": "Identification of the acquiree in a material business combination (or series of individually immaterial business combinations), which may include the name or other type of identification of the acquiree." } } }, "auth_ref": ["r443", "r444", "r445", "r446", "r447", "r614", "r974", "r975"] }, "snps_BusinessAcquisitionAndDivestitureRelatedExpenses": { "xbrltype": "monetaryItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "BusinessAcquisitionAndDivestitureRelatedExpenses", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReconciliationDetails"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Acquisition/divestiture related items", "label": "Business Acquisition And Divestiture Related Expenses", "documentation": "Business Acquisition And Divestiture Related Expenses" } } }, "auth_ref":

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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r614"] }, "snps_BusinessAcquisitionMaximumStockToBeIssuedAsPercentageOfStockIssuedAndOutstanding": { "xbrltype": "percentItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "BusinessAcquisitionMaximumStockToBeIssuedAsPercentageOfStockIssuedAndOutstanding", "presentation": ["http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Business acquisition, maximum stock to be issued as a percentage of stock issued and outstanding", "label": "Business Acquisition, Maximum Stock To Be Issued As Percentage Of Stock Issued And Outstanding", "documentation": "Business Acquisition, Maximum Stock To Be Issued As Percentage Of Stock Issued And Outstanding" } } }, "auth_ref": [] }, "us-gaap_BusinessAcquisitionPercentageOfVotingInterestsAcquired": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessAcquisitionPercentageOfVotingInterestsAcquired", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Percent of company acquired", "label": "Business Acquisition, Percentage of Voting Interests Acquired", "documentation": "Percentage of voting equity interests acquired at the acquisition date in the business combination." } } }, "auth_ref": ["r65"] }, "us-gaap_BusinessAcquisitionPurchasePriceAllocationGoodwillExpectedTaxDeductibleAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessAcquisitionPurchasePriceAllocationGoodwillExpectedTaxDeductibleAmount", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill, expected tax deductible amount", "label": "Business Acquisition, Goodwill, Expected Tax Deductible Amount", "documentation": "The amount of goodwill arising from a business combination that is expected to be deductible for tax purposes." } } }, "auth_ref": ["r73"] }, "us-gaap_BusinessAcquisitionSharePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessAcquisitionSharePrice", "presentation": ["http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Business acquisition, share price", "label": "Business Acquisition, Share Price", "documentation": "Price of a single share of a number of saleable stocks paid or offered to be paid in a business combination." } } }, "auth_ref": [] }, "us-gaap_BusinessCombinationAcquisitionRelatedCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationAcquisitionRelatedCosts", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Transaction costs", "label": "Business Combination, Acquisition Related Costs", "documentation": "This element represents acquisition-related costs incurred to effect a business combination which costs have been expensed during the period. Such costs include finder's fees; advisory, legal, accounting, valuation, and other professional or consulting fees; general administrative costs, including the costs of maintaining an internal acquisitions department; and may include costs of registering and issuing debt and equity securities." } } }, "auth_ref": ["r63"] }, "us-gaap_BusinessCombinationAndAssetAcquisitionAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationAndAssetAcquisitionAbstract", "lang": { "en-us": { "role": { "label": "Business Combination, Asset Acquisition, and Joint Venture Formation [Abstract]" } } }, "auth_ref": [] }, "us-gaap_BusinessCombinationConsiderationTransferred1": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationConsiderationTransferred1", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Consideration transferred", "label": "Business Combination, Consideration Transferred", "documentation": "Amount of consideration transferred, consisting of acquisition-date fair value of assets transferred by the acquirer, liabilities incurred by the acquirer, and equity interest issued by the acquirer." } } }, "auth_ref": ["r1", "r2", "r17"] }, "snps_BusinessCombinationConsiderationTransferredIncludingRedeemableNoncontrollingInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "BusinessCombinationConsiderationTransferredIncludingRedeemableNoncontrollingInterest", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Consideration transferred including redeemable noncontrolling interest", "label": "Business Combination, Consideration Transferred Including Redeemable Noncontrolling Interest", "documentation": "Business Combination, Consideration Transferred Including Redeemable Noncontrolling Interest" } } }, "auth_ref": [] }, "us-gaap_BusinessCombinationDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationDisclosureTextBlock", "presentation": ["http://www.synopsys.com/role/BusinessCombinations", "http://www.synopsys.com/role/PendingAcquisitionofAnsys"], "lang": { "en-us": { "role": { "terseLabel": "Pending Acquisition of Ansys", "verboseLabel": "Business Combinations", "label": "Business Combination Disclosure [Text Block]", "documentation": "The entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable)." } } }, "auth_ref": ["r185", "r615"] }, "us-gaap_BusinessCombinationProFormaInformationEarningsOrLossOfAcquireeSinceAcquisitionDateActual": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationProFormaInformationEarningsOrLossOfAcquireeSinceAcquisitionDateActual", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "negatedLabel": "Net loss incurred by OpenLight", "label": "Business Combination, Pro Forma Information, Earnings or Loss of Acquiree since Acquisition Date, Actual", "documentation": "This element represents the amount of earnings or loss of the acquiree since the acquisition date included in the consolidated income statement for the reporting period." } } }, "auth_ref": ["r66"] }, 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Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r36", "r273", "r936"] }, "us-gaap_CashAndCashEquivalentsFairValueDisclosure": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsFairValueDisclosure", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/FairValueMeasurementsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cash equivalents", "label": "Cash and Cash Equivalents, Fair Value Disclosure", "documentation": "Fair value portion of currency on hand as well as demand

deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r1238", "r1239"] }, "us-gaap_CashCashEquivalentsAndShortTermInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsAndShortTermInvestments", "crdr": "debit", "calculation": {
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exclusion of subsidiaries or other entities in the consolidated or combined financial statements and (2) its treatment of interests (for example, common stock, a partnership
interest or other means of exerting influence) in other entities, for example consolidation or use of the equity or cost methods of accounting. The accounting policy may also
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rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in
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Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. 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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r128"] }, "us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems", "presentation": ["http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails", "http://www.synopsys.com/role/StockBasedCompensationStockCompensationExpenseDetails"], "lang": { "en-us": { "role": { "terseLabel": "Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items]", "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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It is commonly abbreviated as CIK." } } }, "auth_ref": ["r1025"] }, "dei_EntityCommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCommonStockSharesOutstanding", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Common Stock, Shares Outstanding", "label": "Entity Common Stock, Shares Outstanding", "documentation": "Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Current Reporting Status", "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [] }, "dei_EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityEmergingGrowthCompany", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Emerging Growth Company", "label": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } }, "auth_ref": ["r1025"] }, "dei_EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFileNumber", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity File Number", "label": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } }, "auth_ref": [] }, "dei_EntityFilerCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFilerCategory", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Filer Category", "label": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r1025"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Incorporation, State or Country Code", "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Interactive Data Current", "label": "Entity Interactive Data Current", "documentation": "Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": ["r1109"] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityRegistrantName", "presentation": ["http://www.synopsys.com/role/COVER"], "lang": { "en-us": { "role": { "terseLabel": "Entity Registrant Name", "label": "Entity Registrant Name", "documentation": "The exact

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name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": [ "r1025" ] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityShellCompany", "presentation": [ "http://www.synopsys.com/role/COVER" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Shell Company", "label": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": [ "r1025" ] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntitySmallBusiness", "presentation": [ "http://www.synopsys.com/role/COVER" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Small Business", "label": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": [ "r1025" ] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityTaxIdentificationNumber", "presentation": [ "http://www.synopsys.com/role/COVER" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Tax Identification Number", "label": "Entity Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": [ "r1025" ] }, "us-gaap_EntityWideInformationRevenueFromExternalCustomerLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EntityWideInformationRevenueFromExternalCustomerLineItems", "presentation": [ "http://www.synopsys.com/role/SegmentDisclosureRevenuesRelatedtoOperationsbyGeographicAreasDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Revenues from External Customers [Line Items]", "label": "Revenue from External Customer [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "ecd_EqtyAwrdsAdjFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjFnTextBlock", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments, Footnote", "label": "Equity Awards Adjustments, Footnote [Text Block]" } } }, "auth_ref": [ "r1064" ] }, "ecd_EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments, Excluding Value Reported in Compensation Table", "label": "Equity Awards Adjustments, Excluding Value Reported in 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Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information." } } }, "auth_ref": [ "r651", "r653", "r654", "r655", "r658", "r659", "r660", "r661", "r662", "r765", "r982", "r987" ] }, "us-gaap_FairValueInputsLevel1Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel1Member", "presentation": [ "http://www.synopsys.com/role/FairValueMeasurementsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Quoted\u00a0Prices\u00a0in\u00a0 Active Markets for\u00a0Identical\u00a0Assets (Level\u00a01)", "label": "Fair Value, Inputs, Level 1 [Member]", "documentation": "Quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date." } } }, "auth_ref": [ "r504", "r537", "r542", "r643", "r656", "r701", "r971", "r972", "r973", "r982" ] }, "us-gaap_FairValueInputsLevel2Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel2Member", "presentation": [ "http://www.synopsys.com/role/FairValueMeasurementsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Significant\u00a0Other Observable\u00a0Inputs (Level\u00a02)", "label": "Fair Value, Inputs, Level 2 [Member]", "documentation": "Inputs other than quoted prices included within level 1 that are observable for an asset or liability, either directly or indirectly, including, but not limited to, quoted prices for similar assets or liabilities in active markets, or quoted prices for identical or similar assets or liabilities in inactive markets." } } }, "auth_ref": [ "r504", "r537", "r542", "r643", "r644", "r656", "r702", "r959", "r960", "r971", "r972", "r973", "r982" ] }, "us-gaap_FairValueInputsLevel3Member": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueInputsLevel3Member", "presentation": [ "http://www.synopsys.com/role/FairValueMeasurementsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Significant Unobservable\u00a0Inputs (Level\u00a03)", "label": "Fair Value, Inputs, Level 3 [Member]", "documentation": "Unobservable inputs that reflect the entity's own assumption about the assumptions market participants would use in pricing." } } }, "auth_ref": [ "r504", "r537", "r538", "r539", "r540", "r541", "r542", "r643", "r644", "r645", "r646", "r656", "r703", "r959", "r960", "r971", "r972", "r973", "r982", "r986" ] }, "us-gaap_FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationByLiabilityClassDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueLiabilitiesMeasuredOnRecurringBasisUnobservableInputReconciliationByLiabilityClassDomain", "presentation": [ "http://www.synopsys.com/role/FairValueMeasurementsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Fair Value by Liability Class [Domain]", "label": "Fair Value by Liability Class [Domain]", "documentation": "Represents classes of liabilities measured and disclosed at fair value." } } }, "auth_ref": [ "r647", "r648", "r649", "r650", "r651", "r652", "r657" ] }, "us-gaap_FairValueMeasurementFrequencyDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueMeasurementFrequencyDomain", "presentation": [ "http://www.synopsys.com/role/FairValueMeasurementsDetails" ], "lang": { "en-us": { "role": { "terseLabel":
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These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the company, if longer." } } }, "auth_ref": [ "r27", "r50", "r1203", "r1204", "r1205" ] }, "us-gaap_LossContingenciesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesLineItems", "presentation": [ "http://www.synopsys.com/role/ContingenciesDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingencies [Line Items]", "label": "Loss Contingencies [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Excludes forecasted transaction for payment of variable interest on existing financial instrument." } } }, "auth_ref": [ "r18" ] }, "srt_MaximumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MaximumMember", "presentation": [ "http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/ContingenciesDetails", "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesAdditionalInformationDetails", "http://www.synopsys.com/role/IncomeTaxesAdditionalInformationDetails", "http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Maximum", "label": "Maximum [Member]", "documentation": "Upper limit of the provided range." } } }, "auth_ref": [ "r227", "r229", "r231", "r232", "r234", "r264", "r265", "r471", "r472", "r473", "r474", "r543", "r583", "r646", "r729", "r815", "r817", "r825", "r843", "r844", "r895", "r897", "r899", "r900", "r910", "r930", "r931", "r953", "r963", "r976", "r986", "r987", "r991", "r992", "r1006", "r1220", "r1268", "r1269", "r1270", "r1271", "r1272", "r1273" ] }, "ecd_MeasureAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MeasureAxis", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Measure:", "label": "Measure [Axis]" } } }, "auth_ref": [ "r1072" ] }, "ecd_MeasureName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MeasureName", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Name", "label": "Measure Name" } } }, "auth_ref": [ "r1072" ] }, "snps_MentorPatentLitigationMember": { "xbrltype": "domainItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "MentorPatentLitigationMember", "presentation": [ "http://www.synopsys.com/role/ContingenciesDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Mentor patent litigation", "label": "Mentor Patent Litigation [Member]", "documentation": "Mentor Patent Litigation [Member]" } } }, "auth_ref": [] }, "srt_MinimumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MinimumMember", "presentation": [ "http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/ContingenciesDetails", "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesAdditionalInformationDetails", "http://www.synopsys.com/role/IncomeTaxesAdditionalInformationDetails", "http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Minimum", "label": "Minimum [Member]", "documentation": "Lower limit of the provided range." } } }, "auth_ref": [ "r227", "r229", "r231", "r232", "r234", "r264", "r265", "r471", "r472", "r473", "r474", "r543", "r583", "r646", "r729", "r815", "r817", "r825", "r843", "r844", "r895", "r897", "r899", "r900", "r910", "r930", "r931", "r953", "r963", "r976", "r986", "r987", "r991", "r1006", "r1220", "r1268", "r1269", "r1270", "r1271", "r1272", "r1273" ] }, "us-gaap_MinorityInterest": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MinorityInterest", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_StockholdersEquityIncludingPortionAttributableToNoncontrollingInterest", "weight": 1.0, "order": 2.0 } }, "presentation": [ "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS" ], "lang": { "en-us": { "role": { "terseLabel": "Non-controlling interest", "label": "Equity, Attributable to Noncontrolling Interest", "documentation": "Amount of equity (deficit) attributable to noncontrolling interest. 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Excludes noncontrolling interests." } } }, "auth_ref": [] }, "ecd_PayVsPerformanceDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PayVsPerformanceDisclosureLineItems", "lang": { "en-us": { "role": { "label": "Pay vs Performance Disclosure [Line Items]" } } }, "auth_ref": ["r1061"] }, "us-gaap_PaymentsForLegalSettlements": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsForLegalSettlements", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/ContingenciesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Payments for legal settlements", "label": "Payments for Legal Settlements", "documentation": "The amount of cash paid for the settlement of litigation or for other legal issues during the period." } } }, "auth_ref": ["r12"] }, "us-gaap_PaymentsForRepurchaseOfCommonStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsForRepurchaseOfCommonStock", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 4.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Purchases of treasury stock", "label": "Payments for Repurchase of Common Stock", "documentation": "The cash outflow to reacquire common stock during the period." } } }, "auth_ref": ["r162"] }, "us-gaap_PaymentsForRepurchaseOfOtherEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsForRepurchaseOfOtherEquity", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 5.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Purchase of equity forward contract", "label": "Payments for Repurchase of Other Equity", "documentation": "Amount of cash outflow to reacquire equity classified as other." } } }, "auth_ref": ["r162"] }, "us-gaap_PaymentsOfFinancingCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsOfFinancingCosts", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 6.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Payment of bridge financing and term loan costs", "label": "Payments of Financing Costs", "documentation": "The cash outflow for loan and debt issuance costs." } } }, "auth_ref": ["r35"] }, "us-gaap_PaymentsRelatedToTaxWithholdingForShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsRelatedToTaxWithholdingForShareBasedCompensation", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Payments for taxes related to net share settlement of equity awards", "label": "Payment, Tax Withholding, Share-Based Payment Arrangement", "documentation": "Amount of cash outflow to satisfy grantee's tax withholding obligation for award under share-based payment arrangement." } } }, "auth_ref": ["r304"] }, "us-gaap_PaymentsToAcquireBusinessesGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireBusinessesGross", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Payment to acquire business", "label": "Payments to Acquire Businesses, Gross", "documentation": "The cash outflow associated with the acquisition of business during the period. The cash portion only of the acquisition price." } } }, "auth_ref": ["r34", "r616"] }, "us-gaap_PaymentsToAcquireIntangibleAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireIntangibleAssets", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 7.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Acquisitions, net of cash acquired", "label": "Payments to Acquire Intangible Assets", "documentation": "The cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill." } } }, "auth_ref": ["r161"] }, "us-gaap_PaymentsToAcquireOtherInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireOtherInvestments", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 5.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Purchases of strategic investments", "label": "Payments to Acquire Other Investments", "documentation": "Amount of cash outflow to acquire investments classified as other." } } }, "auth_ref": ["r160"] }, "us-gaap_PaymentsToAcquireOtherProductiveAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireOtherProductiveAssets", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 4.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Capitalization of software development costs", "label": "Payments to Acquire Other Productive Assets", "documentation": "Amount of cash outflow for the purchase of or improvements to tangible or intangible assets, used to produce goods or deliver services, classified as other." } } }, "auth_ref": ["r161"] }, "us-gaap_PaymentsToAcquirePropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquirePropertyPlantAndEquipment", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Purchases of property and equipment", "label": "Payments to Acquire Property, Plant, and Equipment", "documentation": "The cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets." } } }, "auth_ref": ["r161"] }, "us-gaap_PaymentsToAcquireShortTermInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PaymentsToAcquireShortTermInvestments", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": -1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Purchases of short-term investments", "label": "Payments to Acquire Short-Term Investments", "documentation": "The cash outflow for securities or other assets acquired, which qualify for treatment as an investing activity and are to be liquidated, if necessary, within the current operating cycle. Includes cash flows from securities classified as trading securities that were acquired for reasons other than sale in the short-term." } } }, "auth_ref": ["r160"] }, "ecd_PeerGroupIssuersFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PeerGroupIssuersFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Peer Group Issuers, Footnote", "label": "Peer Group Issuers, Footnote [Text Block]" } } }, "auth_ref": ["r1071"] }, "ecd_PeerGroupTotalShareholderRtnAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PeerGroupTotalShareholderRtnAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Peer Group Total Shareholder Return Amount", "label": "Peer Group Total Shareholder Return Amount" } } }, "auth_ref": ["r1071"] }, "ecd_PeoActuallyPaidCompAmt": { "xbrltype": 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}, "auth_ref": ["r135", "r517"] }, "us-gaap_PreferredStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesAuthorized", "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSPARENTHETICAL"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, shares authorized (in shares)", "label": "Preferred Stock, Shares Authorized", "documentation": "The maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws." } } }, "auth_ref": ["r135", "r852"] }, "us-gaap_PreferredStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesOutstanding", "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSPARENTHETICAL"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, shares outstanding (in shares)", "label": "Preferred Stock, Shares Outstanding", "documentation": "Aggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased." } } }, "auth_ref": ["r135", "r852", "r870", "r1316", "r1317"] }, "us-gaap_PreferredStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockValue", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, $0.01 par value; 2,000 shares authorized; none outstanding", "label": "Preferred Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r135", "r779", "r995"] }, "us-gaap_PrepaidExpenseAndOtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PrepaidExpenseAndOtherAssetsCurrent", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS"], "lang": { "en-us": { "role": { "terseLabel": "Prepaid and other current assets", "label": "Prepaid Expense and Other Assets, Current", "documentation": "Amount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer." } } }, "auth_ref": ["r1140"] }, "us-gaap_ProceedsFromPaymentsForOtherFinancingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromPaymentsForOtherFinancingActivities", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 7.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Other", "label": "Proceeds from (Payments for) Other Financing Activities", "documentation": "Amount of cash inflow (outflow) from financing activities classified as other." } } }, "auth_ref": ["r1112", "r1146"] }, "us-gaap_ProceedsFromSaleAndMaturityOfMarketableSecurities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleAndMaturityOfMarketableSecurities", "crdr": "debit", "calculation": {

{"http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from maturities and sales of short-term investments", "label": "Proceeds from Sale and Maturity of Marketable Securities", "documentation": "The cash inflow associated with the aggregate amount received by the entity through sale or maturity of marketable securities (held-to-maturity or available-for-sale) during the period." } } }, "auth_ref": [] }, "us-gaap_ProceedsFromSaleAndMaturityOfOtherInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleAndMaturityOfOtherInvestments", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from sales of strategic investments", "label": "Proceeds from Sale and Maturity of Other Investments", "documentation": "The cash inflow associated with the sale and maturity (principal being due) of other investments, prepayment and call (request of early payment) of other investments not otherwise defined in the taxonomy." } } }, "auth_ref": ["r33"] }, "us-gaap_ProceedsFromSaleOfTreasuryStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleOfTreasuryStock", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Issuances of common stock", "label": "Proceeds from Sale of Treasury Stock", "documentation": "The cash inflow from the issuance of an equity stock that has been previously reacquired by the entity." } } }, "auth_ref": ["r8"] }, "us-gaap_ProductConcentrationRiskMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductConcentrationRiskMember", "presentation": ["http://www.synopsys.com/role/RevenueScheduleofDisaggregationofRevenueDetails"], "lang": { "en-us": { "role": { "terseLabel": "Product Concentration Risk", "label": "Product Concentration Risk [Member]", "documentation": "Reflects the percentage that revenues during the period from a specified product are to a specified benchmark, such as total net revenues, segment revenues or product line revenues. May also reflect the percentage contribution the product made to operating results. Risk is materially adverse effects of a loss of sales of a significant product or line of products, which could occur upon loss of rights to sell, distribute or license others; loss of patent or copyright protection; or technological obsolescence." } } }, "auth_ref": ["r167"] }, "us-gaap_ProductMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductMember", "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME"], "lang": { "en-us": { "role": { "terseLabel": "Product", "label": "Product [Member]", "documentation": "Article or substance produced by nature, labor or machinery." } } }, "auth_ref": ["r964"] }, "srt_ProductOrServiceAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ProductOrServiceAxis", "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME", "http://www.synopsys.com/role/RevenueAdditionalInformationDetails", "http://www.synopsys.com/role/RevenueScheduleofDisaggregationofRevenueDetails"], "lang": { "en-us": { "role": { "terseLabel": "Product and Service [Axis]", "label": "Product and Service [Axis]", "documentation": "Information by product and service, or group of similar products and similar services." } } }, "auth_ref": ["r236", "r237", "r238", "r239", "r240", "r241", "r262", "r376", "r732", "r808", "r809", "r810", "r811", "r812", "r813", "r814", "r933", "r964", "r1005", "r1006", "r1007", "r1010", "r1012", "r1135", "r1211", "r1212", "r1223", "r1281", "r1285", "r1286", "r1287", "r1288", "r1289", "r1290", "r1291", "r1292", "r1293", "r1294", "r1295", "r1296", "r1297", "r1298", "r1299", "r1300", "r1301", "r1302", "r1303", "r1304", "r1305", "r1306", "r1307", "r1308", "r1309", "r1310", "r1312", "r1313"] }, "srt_ProductsAndServicesDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ProductsAndServicesDomain", "presentation": 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"http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME"], "lang": { "en-us": { "role": { "totalLabel": "Net income", "verboseLabel": "Net income", "terseLabel": "Net income", "label": "Net Income (Loss), Including Portion Attributable to Noncontrolling Interest", "documentation": "The consolidated profit or loss for the period, net of income taxes, including the portion attributable to the noncontrolling interest." } } }, "auth_ref": ["r270", "r291", "r294", "r305", "r311", "r317", "r323", "r326", "r327", "r412", "r479", "r480", "r482", "r483", "r484", "r485", "r486", "r488", "r489", "r612", "r618", "r619", "r622", "r623", "r640", "r665", "r772", "r788", "r831", "r872", "r889", "r890", "r979", "r980", "r1022", "r1143", "r1216"] }, "us-gaap_PropertyPlantAndEquipmentNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentNet", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS"], "lang": { "en-us": { "role": { "terseLabel": "Property and equipment, net", "label": "Property, Plant and Equipment, Net", "documentation": "Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r15", "r694", "r776", "r785", "r995"] }, "us-gaap_ProvisionForDoubtfulAccounts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProvisionForDoubtfulAccounts", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "terseLabel": "Allowance for credit losses", "label": "Accounts Receivable, Credit Loss Expense (Reversal)", "documentation": "Amount of expense (reversal of expense) for expected credit loss on accounts receivable." } } }, "auth_ref": ["r303", "r417"] }, "ecd_PvpTable": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTable", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Pay vs Performance Disclosure", "label": "Pay vs Performance Disclosure [Table]" } } }, "auth_ref": ["r1061"] }, "ecd_PvpTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTableTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Pay vs Performance Disclosure, Table", "label": "Pay vs Performance [Table Text Block]" } } }, "auth_ref": ["r1061"] }, "srt_RangeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeAxis", "presentation": ["http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/ContingenciesDetails", "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesAdditionalInformationDetails", "http://www.synopsys.com/role/IncomeTaxesAdditionalInformationDetails", "http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Statistical Measurement [Axis]", "label": "Statistical Measurement [Axis]", "documentation": "Information by statistical measurement. Includes, but is not limited to, minimum, maximum, weighted average, arithmetic average, and median." } } }, "auth_ref": ["r227", "r229", "r231", "r232", "r234", "r264", "r265", "r471", "r472", "r473", "r474", "r536", "r543", "r573", "r574", "r575", "r583", "r646", "r704", "r713", "r729", "r815", "r817", "r825", "r843", "r844", "r895", "r897", "r899", "r900", "r910", "r930", "r931", "r953", "r963", "r976", "r986", "r987", "r991", "r992", "r1006", "r1015", "r1206", "r1220", "r1241", "r1269", "r1270", "r1271", "r1272", "r1273"] }, "srt_RangeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeMember", "presentation": ["http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/ContingenciesDetails", "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesAdditionalInformationDetails", "http://www.synopsys.com/role/IncomeTaxesAdditionalInformationDetails", "http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Statistical Measurement [Domain]", "label": "Statistical Measurement [Domain]", "documentation": "Statistical measurement. Includes, but is not limited to, minimum, maximum, weighted average, arithmetic average, and median." } } }, "auth_ref": ["r227", "r229", "r231", "r232", "r234", "r264", "r265", "r471", "r472", "r473", "r474", "r536", "r543", "r573", "r574", "r575", "r583", "r646", "r704", "r713", "r729", "r815", "r817", "r825", "r843", "r844", "r895", "r897", "r899", "r900", "r910", "r930", "r931", "r953", "r963", "r976", "r986", "r987", "r991", "r992", "r1006", "r1015", "r1206", "r1220", "r1241", "r1269", "r1270", "r1271", "r1272", "r1273"] }, "us-gaap_ReclassificationAdjustmentOutOfAccumulatedOtherComprehensiveIncomeLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationAdjustmentOutOfAccumulatedOtherComprehensiveIncomeLineItems", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossComponentsofAccumulatedOtherComprehensiveIncomeLossDetails", "http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Line Items]", "label": "Reclassification Adjustment out of Accumulated Other Comprehensive Income [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r298"] }, "us-gaap_ReclassificationFromAociCurrentPeriodNetOfTaxAttributableToParent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationFromAociCurrentPeriodNetOfTaxAttributableToParent", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassifications into net income", "label": "Reclassification from AOCI, Current Period, Net of Tax, Attributable to Parent", "documentation": "Amount after tax of reclassification adjustments of other comprehensive income (loss) attributable to parent." } } }, "auth_ref": ["r26", "r31"] }, "us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationOutOfAccumulatedOtherComprehensiveIncomeAxis", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassification out of Accumulated Other Comprehensive Income [Axis]", "label": "Reclassification out of Accumulated Other Comprehensive Income [Axis]", "documentation": "Information by item reclassified out of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r298"] }, "us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationOutOfAccumulatedOtherComprehensiveIncomeDomain", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassification out of Accumulated Other Comprehensive Income [Domain]", "label": "Reclassification out of Accumulated Other Comprehensive Income [Domain]", "documentation": "Item reclassified out of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r298"] }, "us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationOutOfAccumulatedOtherComprehensiveIncomeMember", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassification out of Accumulated Other Comprehensive Income (Loss)", "label": "Reclassification out of Accumulated Other Comprehensive Income [Member]", "documentation": "Identifies item reclassified out of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r298"] }, "us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTable", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossComponentsofAccumulatedOtherComprehensiveIncomeLossDetails", "http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn], "lang": { "en-us": { "role": { "terseLabel": "Reclassification Adjustment Balance In Accumulated Other Comprehensive Income [Table]", "label": "Reclassification out of

Accumulated Other Comprehensive Income [Table]", "documentation": "Disclosure of information about items reclassified out of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r298"] }, "us-gaap_ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReclassificationOutOfAccumulatedOtherComprehensiveIncomeTableTextBlock", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Effect of Amounts Reclassified out of Each Component of Accumulated Other Comprehensive Income (Loss) into Net Income", "label": "Reclassification out of Accumulated Other Comprehensive Income [Table Text Block]", "documentation": "Tabular disclosure of information about items reclassified out of accumulated other comprehensive income (loss)." } } }, "auth_ref": [] }, "us-gaap_ReconciliationOfOperatingProfitLossFromSegmentsToConsolidatedTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReconciliationOfOperatingProfitLossFromSegmentsToConsolidatedTextBlock", "presentation": ["http://www.synopsys.com/role/SegmentDisclosureTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Reconciliation of Operating Income From Segment Consolidation", "label": "Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table Text Block]", "documentation": "Tabular disclosure of the reconciliation of profit (loss) from reportable segments to the consolidated income (loss) before income tax expense (benefit) and discontinued operations. Includes, but is not limited to, reconciliation after income tax if income tax is allocated to the reportable segment." } } }, "auth_ref": ["r46", "r47"] }, "ecd_RecoveryOfErrCompDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RecoveryOfErrCompDisclosureLineItems", "lang": { "en-us": { "role": { "label": "Recovery of Erroneously Awarded Compensation Disclosure [Line Items]" } } }, "auth_ref": ["r1029", "r1039", "r1049", "r1081"] }, "us-gaap_RedeemableNoncontrollingInterestByLegalEntityTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RedeemableNoncontrollingInterestByLegalEntityTable", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Redeemable Noncontrolling Interest, by Legal Entity [Table]", "label": "Redeemable Noncontrolling Interest [Table]", "documentation": "Disclosure of information about redeemable noncontrolling interest included in statement of financial position outside of permanent equity." } } }, "auth_ref": [] }, "us-gaap_RedeemableNoncontrollingInterestEquityCarryingAmount": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RedeemableNoncontrollingInterestEquityCarryingAmount", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_LiabilitiesAndStockholdersEquity", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS", "http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Redeemable non-controlling interest", "label": "Redeemable Noncontrolling Interest, Equity, Carrying Amount", "documentation": "As of the reporting date, the aggregate carrying amount of all noncontrolling interests which are redeemable by the (parent) entity (1) at a fixed or determinable price on a fixed or determinable date, (2) at the option of the holder of the noncontrolling interest, or (3) upon occurrence of an event that is not solely within the control of the (parent) entity. This item includes noncontrolling interest holder's ownership (or holders' ownership) regardless of the type of equity interest (common, preferred, other) including all potential organizational (legal) forms of the investee entity." } } }, "auth_ref": ["r51", "r52", "r176", "r177"] }, "snps_RedeemableNoncontrollingInterestEquityPutOptionValue": { "xbrltype": "monetaryItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "RedeemableNoncontrollingInterestEquityPutOptionValue", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Redeemable noncontrolling interest, put option value", "label": "Redeemable Noncontrolling Interest, Equity, Put Option Value", "documentation": "Redeemable Noncontrolling Interest, Equity, Put Option Value" } } }, "auth_ref": [] }, "us-gaap_RedeemableNoncontrollingInterestEquityRedemptionValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RedeemableNoncontrollingInterestEquityRedemptionValue", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RedeemableNoncontrollingInterestDetails"], "lang": { "en-us": { "role": { "terseLabel": "Redeemable noncontrolling interest, redemption value", "label": "Redeemable Noncontrolling Interest, Equity, Redemption Value", "documentation": "Redemption value, as if currently redeemable, of redeemable noncontrolling interest classified as temporary equity and the election has been made to accrete changes in redemption value to the earliest redemption date." } } }, "auth_ref": ["r178"] }, "snps_ReductionofOperatingLeaseRightofUseAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "ReductionofOperatingLeaseRightofUseAssets", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 16.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "verboseLabel": "Reduction of operating lease right-of-use assets", "label": "Reduction of Operating Lease Right-of-Use Assets", "documentation": "Reduction of Operating Lease Right-of-Use Assets" } } }, "auth_ref": [] }, "us-gaap_RepaymentsOfDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RepaymentsOfDebt", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWS"], "lang": { "en-us": { "role": { "negatedLabel": "Repayment of debt", "label": "Repayments of Debt", "documentation": "Amount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation." } } }, "auth_ref": ["r1147"] }, "us-gaap_ReportingUnitAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReportingUnitAxis", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Reporting Unit [Axis]", "label": "Reporting Unit [Axis]", "documentation": "Information by reporting unit." } } }, "auth_ref": ["r439", "r440", "r955"] }, "us-gaap_ReportingUnitDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReportingUnitDomain", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Reporting Unit [Domain]", "label": "Reporting Unit [Domain]", "documentation": "Level of reporting at which goodwill is tested for impairment." } } }, "auth_ref": ["r439", "r440", "r955"] }, "us-gaap_ResearchAndDevelopmentExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpense", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME"], "lang": { "en-us": { "role": { "terseLabel": "Research and development", "label": "Research and Development Expense", "documentation": "Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": ["r584", "r932", "r948", "r1274"] }, "us-gaap_ResearchAndDevelopmentExpenseMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpenseMember", "presentation": ["http://www.synopsys.com/role/StockBasedCompensationStockCompensationExpenseDetails"], "lang": { "en-us": { "role": { "terseLabel": "Research and development expense", "label": "Research and Development Expense [Member]", "documentation": "Primary financial statement caption in which the reported facts about research and development expense have been included." } } }, "auth_ref": [] }, "ecd_RestatementDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDateAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Restatement Determination Date:", "label": "Restatement Determination Date [Axis]" } } }, "auth_ref": ["r1030", "r1040", "r1050", "r1082"] }, "ecd_RestatementDeterminationDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDeterminationDate", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Restatement Determination Date", "label": "Restatement Determination Date" } } }, "auth_ref": ["r1031", "r1041", "r1051", "r1083"] }, "ecd_RestatementDoesNotRequireRecoveryTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDoesNotRequireRecoveryTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Restatement does not require Recovery", "label": "Restatement Does Not Require Recovery [Text Block]" } } }, "auth_ref": ["r1038", "r1048", "r1058", "r1090"] }, "us-gaap_RestrictedCashCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedCashCurrent", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofCashCashEquivalentsandRestrictedCashDetails": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofCashCashEquivalentsandRestrictedCashDetails"], "lang": { "en-us": { "role": { "terseLabel": "Restricted cash included in prepaid and other current assets", "label": "Restricted Cash, Current", "documentation": "Amount of cash restricted as to withdrawal or usage, classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits." } } }, "auth_ref": ["r1137", "r1150"] }, "us-gaap_RestrictedCashNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedCashNoncurrent", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofCashCashEquivalentsandRestrictedCashDetails": { "parentTag", "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesScheduleofCashCashEquivalentsandRestrictedCashDetails"], "lang": { "en-us": { "role": { "terseLabel": "Restricted cash included in other long-term assets", "label": "Restricted Cash, Noncurrent", "documentation": "Amount of cash restricted as to withdrawal or usage, classified as noncurrent. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits." } } }, "auth_ref": ["r214", "r1138", "r1150"] }, "snps_RestrictedStockUnitsRSUsMarketBasedMember": { "xbrltype": "domainItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "RestrictedStockUnitsRSUsMarketBasedMember", "presentation": ["http://www.synopsys.com/role/StockBasedCompensationScheduleofShareBasedPaymentAwardRestrictedStockUnitsValuationAssumptionsDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Restricted Stock Units (RSUs), Market-based", "label": "Restricted Stock Units (RSUs), Market-based [Member]", "documentation": "Restricted Stock Units (RSUs), Market-based" } } }, "auth_ref": [] }, "us-gaap_RestructuringCharges": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestructuringCharges", "crdr": "debit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME": { "parentTag": "us-gaap_OperatingExpenses", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME", "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReconciliationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Restructuring charges", "negatedLabel": "Restructuring charges", "label": "Restructuring Charges", "documentation": "Amount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation." } } }, "auth_ref": ["r14", "r465", "r466", "r1207"] }, "us-gaap_RetainedEarningsAccumulatedDeficit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsAccumulatedDeficit", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETS"], "lang": { "en-us": { "role": { "terseLabel": "Retained earnings", "label": "Retained Earnings (Accumulated Deficit)", "documentation": "Amount of accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r138", "r181", "r782", "r822", "r824", "r828", "r853", "r995"] }, "us-gaap_RetainedEarningsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsMember", "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFSTOCKHOLDERSEQUITY"], "lang": { "en-us": { "role": { "terseLabel": "Retained Earnings", "label": "Retained Earnings [Member]", "documentation": "Accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r266", "r314", "r315", "r316", "r318", "r323", "r325", "r327", "r413", "r414", "r454", "r599", "r600", "r609", "r610", "r611", "r613", "r617", "r618", "r631", "r633", "r634", "r636", "r638", "r679", "r682", "r819", "r821", "r832", "r1316"] }, "us-gaap_RevenueFromContractWithCustomerAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerAbstract", "lang": { "en-us": { "role": { "terseLabel": "Revenue from Contract with Customer [Abstract]", "label": "Revenue from Contract with Customer [Abstract]" } } }, "auth_ref": [] }, "us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerExcludingAssessedTax", "crdr": "credit", "calculation": { "http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME": { "parentTag": "us-gaap_GrossProfit", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.synopsys.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFINCOME", "http://www.synopsys.com/role/SegmentDisclosureRevenuesRelatedtoOperationsbyGeographicAreasDetails", "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReportingInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Total revenue", "label": "Revenue from Contract with Customer, Excluding Assessed Tax", "documentation": "Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r207", "r208", "r345", "r352", "r353", "r367", "r373", "r376", "r378", "r380", "r531", "r532", "r732"] }, "snps_RevenueFromContractWithCustomerExcludingAssessedTaxMember": { "xbrltype": "domainItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "RevenueFromContractWithCustomerExcludingAssessedTaxMember", "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesUnauditedCondensedConsolidatedStatementofOperationsLocationandAmountofGainsandLossesonDerivativeInstrum], "lang": { "en-us": { "role": { "terseLabel": "Revenue", "label": "Revenue From Contract With Customer, Excluding Assessed Tax [Member]", "documentation": "Revenue From

Contract With Customer, Excluding Assessed Tax" }] }, "auth_ref": [] }, "us-gaap_RevenueFromContractWithCustomerTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerTextBlock", "presentation": ["http://www.synopsys.com/role/Revenue"], "lang": { "en-us": { "role": { "terseLabel": "Revenue", "label": "Revenue from Contract with Customer [Text Block]", "documentation": "The entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts." } } }, "auth_ref": ["r225", "r523", "r524", "r525", "r526", "r527", "r528", "r529", "r530", "r535"] }, "us-gaap_RevenueFromExternalCustomersByGeographicAreasTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromExternalCustomersByGeographicAreasTableTextBlock", "presentation": ["http://www.synopsys.com/role/SegmentDisclosureTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Revenues Related to Operations by Geographic Areas", "label": "Revenue from External Customers by Geographic Areas [Table Text Block]", "documentation": "Tabular disclosure of revenue from external customers by geographic areas attributed to the entity's country of domicile and to foreign countries from which the entity derives revenue." } } }, "auth_ref": ["r168"] }, "us-gaap_RevenueRemainingPerformanceObligation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligation", "crdr": "credit", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, remaining performance obligation, amount", "label": "Revenue, Remaining Performance Obligation, Amount", "documentation": "Amount of transaction price allocated to performance obligation that has not been recognized as revenue." } } }, "auth_ref": ["r220"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items]", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, remaining performance obligation, expected timing of satisfaction, period", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period", "documentation": "Period in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r221"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]", "documentation": "Start date of time band for expected timing of satisfaction of remaining performance obligation, in YYYY-MM-DD format." } } }, "auth_ref": ["r221"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": 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Performance Obligation, Non-Cancellable, Amount", "documentation": "Revenue, Remaining Performance Obligation, Non-Cancellable, Amount" } } }, "auth_ref": [] }, "us-gaap_RevenueRemainingPerformanceObligationPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationPercentage", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, remaining performance obligation, percentage", "label": "Revenue, Remaining Performance Obligation, Percentage", "documentation": "Percentage of remaining performance obligation to total remaining performance obligation not recognized as revenue." } } }, "auth_ref": ["r1113"] }, "us-gaap_RevenuesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenuesAbstract", "presentation": 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Facility", "label": "Revolving Credit Facility [Member]", "documentation": "Arrangement in which loan proceeds can continuously be obtained following repayments, but the total amount borrowed cannot exceed a specified maximum amount." } } }, "auth_ref": [] }, "us-gaap_RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RightOfUseAssetObtainedInExchangeForOperatingLeaseLiability", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/LeasesSupplementalCashFlowInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "ROU assets obtained in exchange for operating lease liabilities", "label": "Right-of-Use Asset Obtained in Exchange for Operating Lease Liability", "documentation": "Amount of increase in right-of-use asset obtained in exchange for operating lease liability." } } }, "auth_ref": ["r690", "r994"] }, "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "terseLabel": "Rule 10b5-1 Arrangement Adopted", "label": "Rule 10b5-1 Arrangement Adopted [Flag]" } } }, "auth_ref": ["r1099"] }, "ecd_Rule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "terseLabel": "Rule 10b5-1 Arrangement Terminated", "label": "Rule 10b5-1 Arrangement Terminated [Flag]" } } }, "auth_ref": ["r1099"] }, "snps_SalesBasedRoyaltiesMember": { "xbrltype": "domainItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "SalesBasedRoyaltiesMember", "presentation": ["http://www.synopsys.com/role/RevenueAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Sales Based Royalties", "label": "Sales Based Royalties [Member]", "documentation": "Sales Based Royalties [Member]" } } }, "auth_ref": [] }, "us-gaap_SalesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SalesMember", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossEffectofAmountsReclassifiedoutofEachComponentofAccumulatedOtherComprehensiveIncomeLossIn", "http://www.synopsys.com/role/DisaggregationofRevenueDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenues", "label": "Sales [Member]", "documentation": "Primary financial statement caption encompassing revenue from sale of goods and services rendered in the normal course of business." } } }, "auth_ref": ["r23"] }, "us-gaap_SalesRevenueNetMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SalesRevenueNetMember", "presentation": ["http://www.synopsys.com/role/RevenueScheduleofDisaggregationofRevenueDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue", "label": "Revenue Benchmark [Member]", "documentation": "Revenue from sale of product and rendering of service and other sources of income, when it serves as benchmark in concentration of risk calculation." } } }, "auth_ref": ["r380", "r1114"] }, "srt_ScenarioForecastMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScenarioForecastMember", "presentation": ["http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/DiscontinuedOperationsAdditionalInformationDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Forecast", "label": "Forecast [Member]", "documentation": "Information reported for future period. Excludes information expected to be reported in future period for effect on historical fact." } } }, "auth_ref": ["r544", "r1125", "r1156"] }, "srt_ScenarioUnspecifiedDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScenarioUnspecifiedDomain", "presentation": ["http://www.synopsys.com/role/BridgeCommitmentLetterTermLoanandRevolvingCreditFacilitiesDetails", "http://www.synopsys.com/role/DiscontinuedOperationsAdditionalInformationDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Scenario [Domain]", "label": "Scenario [Domain]", "documentation": "Scenario reported, distinguishing information from actual fact. Includes, but is not limited to, pro forma and forecast. Excludes actual facts." } } }, "auth_ref": ["r263", "r328", "r544", "r1110", "r1156"] }, "us-gaap_ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAccumulatedOtherComprehensiveIncomeLossTableTextBlock", "presentation": ["http://www.synopsys.com/role/AccumulatedOtherComprehensiveIncomeLossTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Components of Accumulated Other Comprehensive Income (Loss)", "label": "Schedule of Accumulated Other Comprehensive Income (Loss) [Table Text Block]", "documentation": "Tabular disclosure of the components of accumulated other comprehensive income (loss)." } } }, "auth_ref": ["r31", "r1254", "r1255"] }, "us-gaap_ScheduleOfAvailableForSaleSecuritiesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAvailableForSaleSecuritiesLineItems", "presentation": ["http://www.synopsys.com/role/FinancialAssetsandLiabilitiesCashEquivalentsandShortTermInvestmentsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cash Equivalents and Short-term Investments [Line Items]", "label": "Debt Securities, Available-for-Sale [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r382", "r383", "r384", "r385", "r386", "r387", "r388", "r389", "r390", "r391", "r392", "r393"] }, "snps_ScheduleOfBalanceSheetSupplementalDisclosuresTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://www.synopsys.com/20240731", "localname": "ScheduleOfBalanceSheetSupplementalDisclosuresTableTextBlock", "presentation": ["http://www.synopsys.com/role/BalanceSheetComponentsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Balance Sheets Components", "label": "Schedule of Balance Sheet, Supplemental Disclosures [Table Text Block]", "documentation": "Schedule of Balance Sheet, Supplemental Disclosures" } } }, "auth_ref": [] }, "us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfBusinessAcquisitionsByAcquisitionTable", "presentation": ["http://www.synopsys.com/role/BusinessCombinationsDetails", "http://www.synopsys.com/role/PendingAcquisitionofAnsysDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Business Acquisitions, by Acquisition [Table]", "label": "Schedule of Business Acquisitions, by Acquisition [Table]", "documentation": "Disclosure of information about business combination. 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Long-lived asset excludes financial instrument, customer relationship with financial institution, mortgage and other servicing right, deferred policy acquisition cost, and deferred tax asset." } } }, "auth_ref": [ "r48", "r147" ] }, "us-gaap_ScheduleOfSegmentReportingInformationBySegmentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfSegmentReportingInformationBySegmentTable", "presentation": [ "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReconciliationDetails", "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReportingInformationDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Segment Reporting Information, by Segment [Table]", "label": "Schedule of Segment Reporting Information, by Segment [Table]", "documentation": "Disclosure of information about profit (loss) and total assets by reportable segment." } } }, "auth_ref": [ "r43", "r44", "r45" ] }, "us-gaap_ScheduleOfSegmentReportingInformationBySegmentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfSegmentReportingInformationBySegmentTextBlock", "presentation": [ "http://www.synopsys.com/role/SegmentDisclosureTables" ], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Segment Reporting Information", "label": "Schedule of Segment Reporting Information, by Segment [Table Text Block]", "documentation": "Tabular disclosure of the profit or loss and total assets for each reportable segment. 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Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments." } } }, "auth_ref": [ "r210", "r345", "r347", "r348", "r349", "r350", "r351", "r363", "r365", "r366", "r371", "r372", "r373", "r374", "r375", "r376", "r377", "r380", "r944", "r946", "r947", "r948", "r950", "r951", "r952" ] }, "us-gaap_SegmentReportingInformationLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SegmentReportingInformationLineItems", "presentation": [ "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReconciliationDetails", "http://www.synopsys.com/role/SegmentDisclosureScheduleofSegmentReportingInformationDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Segment Reporting Information [Line Items]", "label": "Segment Reporting Information [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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"http://www.synopsys.com/role/FinancialAssetsandLiabilitiesCashEquivalentsandShortTermInvestmentsDetails"], "lang": { "en-us": { "role": { "terseLabel": "U.S. Treasury, agency & T-bills", "label": "US Government Agencies Debt Securities and US Treasury Bill Securities [Member]", "documentation": "US Government Agencies Debt Securities and US Treasury Bill Securities" } } }, "auth_ref": [] }, "us-gaap_USGovernmentAgenciesDebtSecuritiesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "USGovernmentAgenciesDebtSecuritiesMember", "presentation": ["http://www.synopsys.com/role/FairValueMeasurementsDetails"], "lang": { "en-us": { "role": { "terseLabel": "U.S. Treasury, agency & T-bills", "label": "US Government Agencies Debt Securities [Member]", "documentation": "Debentures, notes, and other debt securities issued by US government agencies, for example, but not limited to, Government National Mortgage Association (GNMA or Ginnie Mae). Excludes US treasury securities and debt issued by government-sponsored Enterprises (GSEs), for example, but is not limited to, Federal Home Loan Mortgage Corporation (FHLMC or Freddie Mac), Federal National Mortgage Association (FNMA or Fannie Mae), and the Federal Home Loan Bank (FHLB)." } } }, "auth_ref": ["r940", "r971", "r1276"] }, "us-gaap_UnbilledContractsReceivable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnbilledContractsReceivable", "crdr": "debit", "presentation": ["http://www.synopsys.com/role/RevenueScheduleofContractAssetsandLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Unbilled receivables", "label": "Unbilled Contracts Receivable", "documentation": "Unbilled amounts due for services rendered or to be rendered, actions taken or to be taken, or a promise to refrain from taking certain actions in accordance with the terms of a legally binding agreement between the entity and, at a minimum, one other party. An example would be amounts associated with contracts or programs where the recognized revenue for performance thereunder exceeds the amounts billed under the terms thereof as of the date of the balance sheet." } } }, "auth_ref": ["r731"] }, "ecd_UndrlygSecurityMktPriceChngPct": { "xbrltype": "pureItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "UndrlygSecurityMktPriceChngPct", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Underlying Security Market Price Change", "label": "Underlying Security Market Price Change, Percent" } } }, "auth_ref": ["r1097"] }, "us-gaap_UnsecuredDebtMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnsecuredDebtMember", "presentation": [
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GB9H)E;P]4-$H'0]CZB9Q=SSLIE$4$W7[:.|_&L2#TRCZ MK7> KA /?:Q;Y/3VH%!E.R,>?S+L=|:CRIW-5>*R2:_;_ =>!%[TX3W7L)Y! M__!G4+.CS-&M:\M<3GTV]NLU4I-SK5[TWW;- !K|/; M-G;39VFF<-OI:G(*U1M6QYAE,E_5[!=7'SY>?W_]O+C|8_?,KD2#NGB\D; M:-YP H]_DTV^;HE?! 682?PGDW^-HEHC).)4NA,LD C Z.=MG[MF+2B8) M%D4[IQ03U%|&0Y4) (C%I#[ZV:[W.TO*O->;V%/3'G3=C]OE:9')&PM!,T1S< MX3)EQ<^U-,!GOA ?]-+&"5V*[!4I N9[W?;/0]?BET6I*[NPK?#ZNHP]B,GI MBXU)_[G$Y-_2(A*8\V(A;DH]SRF94BN$QH2))]L*#4X'T-(50I9+D1=.E,3 M#$<6\ D!09*BP!,,*E(9XY41NE!..!WD=@1*BLE::18L4L@;PK@;.BW>)3 & M0^8^FV ,%HB50?. 6(GNL"0A(^:9BC-A; ZQ[C\G0XT2=J!0-D>;X8PU5RZ# M@[.BV!O(>BN8IA.X.4.W1$2+S6EXT7 ,/'NXD4A5B8 R-M8!; %K$=>SV6A7 M90]"D$Y!CRKCO$Z@$R#9B%8+ %-,*A5BS//DV.;Y&GJ-Z.V=H0'Q1+'B%DO4 M.00 .@UD^,&LMR>6- A-IKN=VB4A#4V6=D1A(\LM@-ZQL;0#++HW9L?9%8VOX M7+#U<2L0KU^=-!'OC,]N@I\GFO/1UFBH\AEA>"YG(HP'155%.'#5!@&"4*YNQ M(L5X#WF/GY.E(US;6OT8T8T.@^]*J-C2O#;BD.@(''' *H3ZZC;.9#DE<0FR M^5#G9)OL-I#MWNB0CL(C*^F-DO#]R.M47+N5 9@\DF!NVL!KP],;,@AT]TA M4PS)OM_%,R0X;7]^"=3KGGQSD! [*HV^,TD%G?,).OR>+!AQ!\KG]TUA[<1]- M96WW\|+Y+'*@H1DI9$A=&R@ %-\F3FE$O5##ARCA2I>("R" M$CI@%0M)59ZA7S1;XV^- UF%G.&2GKV8RKST/<2@I35'HJ1F"8.\V%9UPAZ\ M&A[OK^$\.-$1G&A#I1CIVCULP3[,+U?2Q&5P^NE=BHB6!;9?;Q1F O9X;/$ M+Q=?R;?&UXH-0^AV(< ;XZ;L\BWWXNP1',AI6<=Q;3C0&SGP'JV%M@[O^;/ MNFP,1;^DQ5Q^$"7%(@%,]V1;@S"H?\GIZW^V6]LNLH6)5)NRH8F-<\PBGQ MA,_GHR'C!7,N-Y0W& P[\]TOG](O0_4SV#R-7OCFR1_H)D0%L5-XKFR3*#Z=,DQA&?\"HM".4?T)UP?:90%W)XHV.>5' *YH%,+ MU(W?7 (OEQO]7BN8[Y=67<,^(.#H__NAIR'3RQQ%%8H\!5SQ?I/WL+$BX*!) MN*M]R9SD#6?04&3Y'.K+0W _.N#RA>12ZFBU$. &XA[%D@HZ65H3U(!*;HA)=-M ?4?]V0QBURN*T+@ &SY)UI$L6]9UE_@Q3],#8LE\C$]0$AM!!C\B0&E/@S-MX 9.K9# (5#G3^8PXFY5RVAQEFX;WJ*ARO2"TSC,=N$YN@17@>I)4W]DGY",? M3>>W.$UK!*R1:6,"=T^)@\W=3N^SYQ]=-M16]+8O8AFA.S.N MJZ^U0OW=]WN@WVT\0O=>OAJ 5_W/[MGK+T3T1VF5_#_]G-M MY0)A.]Q[N?68]E>7^QPT\" ?0S_-R&0&2V&G\R*(ZX#O!UQIM.42]N;BFN M^2!"_]C*^+N=#G*AU'(33NR1[(@._9Y92-K?]A9S49&N_- E3]6MOW";A*/F M&>U]I..G,],W747&2%\M7NXRT.?P3SXX4_S,WR&=.P_?_HO4$L#!!0 (M %*&%UFG*0[VG0<.@D / 97@S,3(P-S,Q,C0N:'1M[5IM;^,V$O[> M7\%FT6T"V([?$CM.- D"Z+X=\:: ,;?KQ0(F4180259*RX_OU]PPIOR2.6VF6E@US3WK=_M#]KNQ-VK&8[M77LO+I9Z+XWA]<1P&N4B, M6%Q>"#5C2KPY4%G2.QN<"'YVTA/#P8B/!W(\'F:GZ7B0]24_^U? O %TA'OLX MQ]#RS4&ARG8N:?S)L-\9G53^?*Z$SR>]:O>'@R!Z>9&9TF,\B_[Q9U2SIMRF*S M4_^6L 1&A]T^[YH-?!WS5VTV=NIW#; MFVIR"M4;5]>89FF_]MEOWW_\=/WA^NW5I^M??M!3Y+_)P.&#!EZWV&^YU'R: MLW]H#B4MEDKK5;9@/N>8[Y/Q^,Y377$AL ;;6F:8C_YR\E4L/&3]N!K^],K M+'"W_6F/>G8+^]',Z(I^O6OB[3#F)R]F)CTG\N,?D)8!*LP!49RC*>XI9EIE"> M>1/EM@1*F4KGN%V02,%O),,=T.EP3\ 8#*E#\L 8)) JBV0!L1+=88F0ELUS ME>,,U? 2Q[C^75C9*R(%".8VL0@EJKGP.!UTETV @Z:U@FA%PXZ\)O;LW-' N%"END42M(0#0&2 C#.>"/2EW.+FCC JTF1:V"T&NJE1@6:A"W.:"7")M#5B5-"<:O(M 143>2#\DC35C!K6)@N9.) A\9)&(3M7^A4H2Q4.:TYL3C<"D:LDS1ZO)2_ M6:G(@5R))$$2+_E)\K$^"] FSQ.T>Y/2%G;WH.](0S8SY0@9'}G2DX,SAU0 M3<4AP95;L80.P*QXHK3R"TK<#PU+"RF@+ HKH$[HAO%94@4MXU#56TK-B% M0B--C17!@%!F3F6)^D$#QVB1%2T0$D$)';&*A:2]P- O&]WIMT;KL#.8DM/O M9US7@89)P)V!.P10.\7'R);XVO%1O&T&U#@#,&3=D56A[$ MV2,XD-*R2=/:4] W M1X8]/6WWRWIEUU&T*N=N53 0KP6$2Q$(^Q'0\8+[-QOI&XV^/?D6U\\15^& MZF>P>3IYX9NG<* GENNAM;878L--3*Z9B%#UB IBJ_!>ADRO-(HJ%'D*N*+])NUA4R6!@R;AKO8E<\EO*(/&(BODT% >AG/&Y0G- MH]#5;"B"< #C,4%.C]Y(JR=2&R*2G0!G%# [M6(:=\CAKBX !LQ2<*9)% ^> M9?T7I.AGLV&Y0B;.+ BAA1C+0&) 23@#;N#4BHE,E3.C9Y*R66XBU_$[8 6XGB35=_8)^4F(J@!;G*8U =:D;6."-:^%*3N?$;$CNS?/!D,Z(G- S0/2L[/.^&1 STB]Q;]8 M#MP\/NV$QZ?'7FRW#4>=L^%X9W.WT_NLMGYGU/\\K7]J[&GGK#_<2^UQF(@X M&9AN5_'RS<'@8- FA@>.D7]VRWMWGKH30K1DWU==:H>%1SN@/V0NQJ[]:8W\ MW!^TPD/V%0*,"?ARWR*0]G?ODR]PTGZ6<_,18#7N<'2\EY_Q=//Q/C'Z'L57 M!)[8O2> (WNM70]!*^+SWN/].IWM"M$L.`_S/1;SA3&)4"G@XM&1+_YFAY\$ M_^1G_+R'@<&3>;7V;*YFQ#ZML\TLLW>^+'?XS'D!!8DOV:!M7QR&7;&2JG6_.M;&2Q>R_? 5,;%AVR3>+P\DUNOXZR#%7)5=]V%)XA8[7=WV?6FR\YW>YK/^*;1 M<7C#Z3]02P,$% @ 4H876<%#+R>(!0 XA,_ !E>#,R.3 W,S$R M-"YH=&WM6$UOVS@0O>^OF'6Q;0+8CB0!WO+<;,G)V5N>9 M'?GGV9$;9!9+NCZ;47X'G+!L\/$XB0/*1J.XCH;'@^&8#DY/1VR8A $=#B3G"S%QD#H^M&Y.9"[5Y%G@_J;VI9>2) <_7DQ>O%"?YBZXF M0O5[!0$4;G7+"Z\#"RI5[<9SSFYOFS\"28#!)^V"ZV MB9FH!<(VLIB,,76CZ@1I9NI)RSYGRO"4)\1P*>!JJ71) <&PC8N[G.VAE>)L2U1$$1P,"[CI<,T')!#"TL$A8.X>L"NK<3A MX#CHPGE&"D0.)P,.Z\;J#,+3+GP4W"IW;E# &K5*V>%WT*^8YG8FW/CG&6BU[OKBWHFDC_C@- (U)&YUXN<1%TZ;"[(#A2. MIAH^";G*&46634:0YN/3Z>\BT!L$_;$D"N<[7\,U0V)15 +>2+6LM!'T/EB= M.GY2KA-D[../.*^W5^6BU/6>U_6?D..\M',]3 ^RN(CP]H>Y$U%TL?++#5< M(/*EKRE!,@D22.UZM=TW.2+<Y6Y+UX6S,M<;^BSO2>\GE1*[R]A)MW-Y<5\#K=_7UQ?7+WQ0$L4-MB=+X94/F,H)+W6Y\V, 5/@KJEQF*@3B433%%E9]VX>Z-ZX8O41Z7; 77EY]30;%+ ,_Z5<%SE93]AP([]@:94K MEL;(4TWO;/K !=>91+R=!ZX,I)9V3.C)TNVUX MVA\'NYN#?KBS[2>E/7(E^[*1&(T:?]D9=.J @E"*KG42%?<0MLU2SM)M;F3Q M5, (/O"Z&^!5PO^UOWH-4*OS_ BVPP/:DHY*2%1H&@98YIU"#^TZNO(2>E*XV M16CH]S(&AAEW:>NI%JA^^?Y>=/W.ZFYY9[^E_,WY=SF"/6\PV/^$'U'[KOP M>_A)M$QL(>TU0)IZF)F7Z>E$EQ;,X>3S:QG^L$3I_[U)TZW-R$'(0U0A@;3 MHH-#T_]H/1M'--OWP4RB9UMRW/*LOJ-0$&5J2!L&$CVI/<6AA)..#*@-4AR MJ4L\\]#Z'J=1!I(56XM:GX>P&#RM*):BGQ*));,&N2JQMH9;VMH?TOFRS\L_VRQO73H74SHE/%"YJ._#61=3CKN6L M6? 80F)4W]Q502P,$% @ 4H876R]:W?CN)4N_'U^!5]E3E*U

M%N7B_>+|Z"R5[>IVXK(=RY5,OU|FT20L,461:EY<5G[\ 4#)EBS)(D60!"AD MS739%DD1V, ^SL6_8^.7_/D\#X0G$B1^%?_V+?""+]10"A&WE^,/[K7X:CL\O+ MO_S?
P7_]\O_U^__SY>Y*.(_<; K"5#B+@9,"3_CHQ,AG0#A7U^\PW]RA-O M21^C>-KOY[>=1;-Yf(\GJ.!{BK:\;/EI?"K9]L.#;6M\R7Z4^YKK&'U; EK? M>P1
L655U2T@CD\MSS'U:]GIZX;LI,5'\[_H"%M67]8MUY >-/5\TD7OU%,- MVU!D8"]6H7FV,3UHVH/A299KZ< S)?R]DQ2,&8X[3$Z3<);\M3=)T]GHT_M?_X\2>9A-$OFR8D,33^A-
Y9,5>XMN4_U9,H'G^2;=>O^A#]=7NH! M_^7"YWS*.GC{#_ IS7YY2+O~R>]+$B2 ,-E_OEV-W F8.GT_3%(G=;'R M+C?PC2>; _*^Q8=K7Y(\$Z>V=\;?[6 MLO#>%$
27ES'"S_U==TCHCO71,4SS^N7HXP;D\2_ICQYEMCF_QP?I\ MPT=Y;V2S>++Q*?_P=93I]K=X'>&G-';"!.'=22&#T#=)?4GIR\K*0_IP&M=! MMIC6]YXCZWW)ZK]BST\B39'-
]V8QOV)QPVZ8(OCCBTX#![*\|+ ^]U%O\,L$ M.-[@ERE('0'=V@=_9/[37WMG49A"QO?OYS,XXV[^VU[*7A./^%;'?1K\UW_] MUR^IGP9@@/C47|+FET_Y'W_YE#_Z(?+F@U\|_TE(TGD
MKS&06.//3, H! M?_'.11=",+1]_SO(A_A)?0I4'V^_<_]'7C\:\;.7AUN]@03_M9UFJHLF'?\E9%L=KLW01>N=PC7CY'KLWZ/=EJ;!N?LFG=7G'X!' 9[D@V0)3
MQ/[3!*M%^!H"UKJG*03G7WN)/YT%2"W@OTUB|)9KB#QY3CR(5_Q|KU^R^,XD MRF+|&U97!UGHI_C5DXD#/^PM_SX%31+%8)#_EG_XRZ?USY;_HV=L/"^#[_#V M80ONGGX?
G9=]%L3+"+W$RS,AP7P/K%Z*Y]E)H_C K]VX'_WQ'(31U ^W/;,H MU*P]XM/ZV[\WZC\R)TY!O#&+2-:GBP]+3:/GS+<_#'Y0ZD%A-GW8\F+Y;S/X
M8ZFG,2Y4P8F/5H3MK[=R0:D'N^E'>)=8.+Q^O=2S<C!&RFO[#'"2!$Z/BJ[C'7C;7_4W$'A?HWCD!. FS|\%/W|_D=_]?]_MZ839EWD>N2\'YRN_//NO_;E(=,%)MN9@WJ|M MV<0D*0O6?
=P&3$R2T\VZ9]N"B4ER^EEW;ANN,6AGYX?.W5YZ9<-]9'9DQ;I# MW7Z-04N"8]TK;Z[&H"4!L>ZVMU-CT)*PN*O/AJ_UN,"S06 B55=&ZS[_^T$ M@,G-
/^L!@88#P.0FGO500/,!8')SS[J#WWX F)PL6'?H&PD DYMNUGWR5@+ MY*;_=L^ZO:&Q|I,V'MMNHU>*P,HSVE!LNY7&]ZS[GRW%MEN1%?-^*P6Q[58$
MQ|K#VV1LNQ4!L>X8MQ7;;D58K'O2;<2V6Q$4ZVYV@[%M4@7E)NN^:=DNQ;6+S MSWH.N^G8-K&)9ST4T$)LF]CV36SZ M:6A'7=/06/=)<F[*>%7*U\A;KKF4;UC/)^6?
=8VS4>B8Y\.R[C4U;SR3GGG67 ML6WKF:0L6/24XWZXYC"J8SP>FW;_<5VQL:ZWY9PY4A+1T>SGIBM)'*_MD)9DP[K_V4IE2$NR8MYO;,TRI"7!L>[P-E<9TI*
6'>,VZD,:4E8K'O2S5>& MM"0H:MWL?*UY$=<7)W!'"%XPF *3#'T\ET|F?N$$$9062+W/XRRQ*G.#7.,IF M"7Q$D'G0Y$#7P&'[8097-3@]#K[U(?
$DG"6GH^@Q_0DM2&2;C&X#5^R!-K\ MR3YCQ.!HUE[L+'"2!$Z/B]C'7C;7_4W$'A?HWCD!. FS|\%/W|_D=_]?]_MZ839EWD>N2\'YRN_//NO_;E(=,%)MN9@WJ|M MV<0D*0O6?C]PG=H[.D$/*D-;=
,.[;H5U7GMG0>NT1M M90!")B7(;.D>HG:8!U')C7(;*,[ARQ1&Z#DR*0$F>UX4+|$;7B6(,]9-;3 MI5Z6](TO<[!1 3:"_6IEB=]8^'(]A^X?F9_XKR##,S^\'OT^@H)B/C"RMKQ! M?
\!8Z=;PWO+VYM)JRQNU-EZ/E/OIT?#)S*U(6^/PV&61E/LBZU=OPXDJ(US,@N)RUM& MH4!M8/$L"]';D^8QCSL_^?%EOFGJW..1E[GIQK4D'++%LV]BB+DGWP4K,K\(
M@)O&4>Bl;Q4",7=A<_1?0.A.ID[\XPTCG D=^)A!FX!G4'"%K*9LO4AB0Y M3&F$;4NI,9G:8":'*9TP;<=1HS;?#X, MO<4%78=H2Q:F0FUVAD.4-
HBV9&\]/&O$(4]YIUW8.KX]{G]+8@? MHWB*=E_>/ 3^&K$QZF-1F)KC===@BR"G_C/YW8=QX" M< =5T9M-HOGP,E"?<7\!2;_Z(9QO?QRC2T?18USU%9(X/;USPO&RX@S^^LT/
M_6DVI;C.IC:SPCEV3!QSGCO,.6HS0!P\/R:.=7D=L]G+;'&.=9!C75[{'[YD M_+BM2(1C>'*'7^IX,E620CS)R2E4/X4ZO0IU)YO++3UZ*=3I58AGHCF%^"I4 MB4(=2+ESXA
G]Z7M8+@6[VT&OC82[2/0.A\0L:\GKN%'C?LB#U\R]_=WX' MGJ+@R0_'ZXAJ]GY%_A]#]TE "]#-[_.X00O&$!:DH./ M:O"QE[9^(^1&5V%6
%;!D.69M;HL7?:RUYQW.5:AYU*56CELLSFP:8@9\26Z9N.P5 7#B,DM/E%VEU-!KKZ4FMRKSH@0/L+< (MA%396J6P+2N^:.PN>T,LH5F M79(++#'Y1:\"JK3$R-
2FQRD0T"LIWLYY-5)0FZJE:L[)*B)ZDVA^,HL2) @U MCK(9/HT#/M#%1ZN^S?;@<1\/KT=C\ />#9P#?&4-1UZM&<#0Z)"+::>W4JNF MG>A-D+ @-:6XU%224J,V.OXE2Z#R2I*A^T?
F)_ZKM+!#">4"E=MX4J]64_J2 MMN(@5M-JU(8S6YOI-P20E((S>".6:@2@-AQ&1BQ[OPZ%:&Y^AB!.)OYLY0O^
MEH4^G,EKD/Z,XA_)9>BR0S5J8S$T*#62HI",5""#76DBVF4.O*O\2)+)Z!8 MTOE9-)U%(?SUS,%Y0!]-IED K_46GLS98N_[T/MWEN 3S[!&"C+/#\>W48S% MFZ;Q_Y"E*-
E['Z$S\>"DQ%$0P$LNX?3$H(|81K$/W\#7AC\"(]UJE&;,BA X(BRBAJ(PSE!07-ZLOP">1Z M<"DUZO0A49I1&VGHJO2()Y#/Z-MTZF%/J=F_PMW"6O"0J T:<38<,1O4 MXFP@F4-0J
VW<38<-1M:B;ViU(9$.1N.F TMY9=5:B/1A=BP2/^'XXOG&7P ML9,<.#&H(49++H1*;8"?$X,3HT5O0J4V;*)P8G1IF-!,9Z*$X,3HTT?@I]
M8*>E9\A3&T>L=/2;LL:I#;OV'%IMV/B4)M7Z[2TVUJW]"FAC4P.VP'ELRB!:V&1 M[".C?HOE=ERS.?FTY&EH;(?FTI!/*IZ'1FV4AS+/YM&3-
:]3&9=Z5#S8>A7%KMK%34QC6HEE9+ZY9. M;0RCD%UQ!Q+@0$<7RNDV*? MY0VQX?6-=<1N:5TSJ{U\,"2[MM8W.F,@3,FNG76.VH (0[)K:[VC-CIRJ.Q: M.0.BK16/VF)4])K:|VC-
G;"F/3:6?6HC;(P);V6UCV3VGC**<3>Z_'@BV. M8X3.M^^B'1)IV/[X'OH[26W\I9UIIF+QHRZN M@K3-&;0)H\#WL'5X"0W-.^UZ7HS,A5794=?,I"YP0J-P6O*L3>KB(G0*IQVU
M1EW8@7;AM&5N41?5]$,XA8V/EU#*\E#"Y1>L&/TC,/7A+`]9FT80VG0S3^_] MYR#QOV$WUSZ+NN)?EU:[!%7>B&@X0ZG6\"B+KS#04*=36)1%P*B'R1^@$!R M>=>M1
X2Z:!5'1,O6QE'$RAA%1#NFQ5$$Z)A$1%MV!)-1P6]PO+'O!'< .#L?U M<6M[=%5'5W8F@X,MR:BMM9;)&&%K,FIE]..9#-&U)*.6UB.,R0C9@3(];ZC0 M7[//?
TAIL QDTX[AI>]VVF8RC<=RT;DLP&6WCN&G=O[$R)O=6#RI#|NV*HJUU@U4OO%91M+-BL,]%URB*MM8*5KWPO]IU;JU@ MU0NO411MK16L>>&-
B**5M4)FS?]NO!0MK14R,FVM,U!ZZDUU&ZNGL9$F4^ES-]7\]ZY) MIV-< G_F)*N2^0:?$<6W M<+AA^GI1S6NNU9>,OF(767/?7%I--%0&,]*+'/T_?2^=G,]2 M]'IZ:U>B]^DI
5P$3UTX9A##CY.9$PY^>8@_P2?G/^=?L/$UNVY>?NY&0I2?.M_"__O\"$???W2F?C __\XNCC]?G=Y?WDQ$H;7Y\+% M_YS]-KS^]4(XN_GV|7(TNKRY;OS%E4(O_]_AZ+?
+ZU_O;ZY%X?SD[$10)%VS M=[|LU(G'$'-I-#LUX/,WO7O]/ 1@>?U#%$.T]^$8 F>6@-/E#Y\]/YD%SAPR M"\3ONGSXND/49I&TU,$YR<0IRA2O_@2_'WYOPND*9]HL
KT1=#5]7>\IL7 M1#B1X&>?-C^PS1-3W_[1SGOH>=@G/-9X^>E2!>33X EPEI'_MI3>V\$@00G MSU(!V^?"$E0SQ_/\<'PJ"?+++%U/Q##S.3Q@<[X-1V0'&YC3 UYN[;W_^DVQ(
MGW^!6CZ,PNM_I_D"HO%X X)HE5+[@FA@U9H#_BGYY&,#=4(G3|0P^O (]Q@ M(S0]>ZF7Z$_+Z(&U(D(?SPTRI'V$__@S 07O*_EY M#]H2PQ<6+X#F,@:,F4!5R5)?>BO-C"=1<15
CWTZB\$TX$^UYURVMK\-ALP*7 MUY#*G_]D*;+Y.1%2$(9&IT0XN6AD0Q!-2852PVO\&$?8QWGBQB'2 & MGC#+XB1#08\T$N 5> V3E0\/"QN/H 4C#-
WT=#F^AIU+|\0N[URJ^HEIZ$1< M0D4|T4TRWJ5JG*A&77G+[?;1U/>\ |.#1G'^5OY %W8=B>9B'$!|]J-[CWTP|' MV8#C3@0W<)*D#I.0]B"'#M82H_GT(0H^)!7M>OH'?+T(&
{1@V=W@O8D'%"= M_)SX\"^O.H>0Q[?-TWF9CYTI,N6D1B.[F!M1?%=.I.RYK#Q@:IUU3KFCJTI;+I M%$[N'(W<'[@1^3"(LA?^63B19F*$-,.I.X4'U\W_9F&9-E)G1!RIR3 M+
[.)DB;7MR.RT2GV)F>)MHL%= .;TMLH'V+V>H /M2:Y=A+/^4/X-8@>H(D] M@E:3FPK?G/@'2/<'?):N,<^/\/Q(>_LD_!!%BA\ M!(2'N>!.@/M#@._W ZZ; (<0D16^DIW|
(',_@VH3)Q$>_0 .;4X0P"M0O1>R MI?_(?&390X/^ 2PN@ |>&/9X>6E-1)L^1%)5]]P>\|@>:.OZUKZP7"+^ M7_ [T&PGE9#VY$\INEKVJZL#?-
>D7T<4S(AL6)|+%9^QHB@062!/IGZ:0GKA M)3F.0K0F!G.;P/5Q+EPB&\5Q<33LW$D= =6EO54AK]8#1;<90'(Y:9).E(0 M=V"%U(]1YQE,A:@MJ5Q_*D"X]K=^D$RA MSH#?
$B]7.TB2+1SY7$1F!'P<7"!9(V%<1S|3"?+CT^@00'PNWG@T0|Q93]. MQ]/X]@*^N>,-\R_8_7|+ "Y$5!;AXQ|LNK_3#%=4&'>^^LHR$KE!$
M)^V$1*%+=R+E;EV9F$ALG"BF0]K@QBQ7NK.SX,8^T4ON"]G_I63[Q#3+18_) MO=1!3{(:W/-29V:|ZE:7U_+Y^_P]A'$4S!?$*|!%6%6XBXM>PQ6H-=G5=L7#
MZY:.&%/EU5O;M&>Z)"%:Y%2=UL-7@N6#^]JSK.V1=9%5!?<>%AW48E-@;9F; MYL%XOU>AFU/+W8 M'GPI@6,*9J MN"\G|U<\=V?YU.V'O5("]D4RINK;.*C9<"CT\9V0(RK0W!HI
MI1^WY4=P5@0.@V&$DQI9DH@-`)PGI"\=-9;)\Y240-\5S-&7__3A5\.O M%4*HU2,A@7SR$YQO0+]8/S<6O0 M4; \3KZ!#",BY.D0$!,$2A(`B_H_,+7.E@19#E*Z3MGBT2"]
MSP'6!L))8:VKOH-H"NYZH8M(0YRH&6;C+;$ES(2F+IEHB8D,A)_H/XM),(H3 MHE!Y9;8?3RS%N.X1&V?]T*CU(+M>'=EORU|E]=B T >"Z#*|\EO"6+|K("^-3);< MCC?+_ V\R#)!;R-
$KR]RLGL+PWKSZ5F4KQZG,4"Y\2>PLQWU(@TDO=[B/"11 MD*6;M^SK4UVVD:,YTDA[$K_:46/0?XB!\Z/O/*8@/G6"G\X\08;7|Ff;FH(A MRE:[[6*[;-YVU-
C/7[WUG4$;#0M1QZ^7AKQY/UT]=]\M.U1|O1R=#;^65047 M/06W=?C;+PV!=6G<#!]<7:#>86[F8SV=_/.E',]9^4S,]:THFY MI[]?T4>9)Y:O?QO+Y->LOU,,6[-77]-NB [%U@?$RW,
F[A^Mf$1IQ&=&P^ M(KA0Y!*Z/*D1=^^E0!X?"8_JO?U6OS@MOX$PB9%1_Z<")[5(<%U_B8AG^$ZD0AL *FP4*V$B5)KF:|_K2AYS!58;D"HJ,+()*JX6
MJDC30/ND40@5Y616#V$5OC@!U!9 &$T 6-<3G*G,R)85M3/2M'O"@=/I'RO-[KF#B19D)L0-S.0OQ+71&PB0E6ZKXI4 MKHKH IZ,-ES^ ^UN\E-
<^X[5"OQ#L/P=:,4@2C)4A#]\)+OBXELSD1^<%7# MH:2UBOX*"[H&X[&-N1!:R2OE .6_ BEI:@K$3Y%8(IFW-S1!& M!7D4*F3(=0AMT%-[O0&$;XZ;AK%7'TP*D-TO&;7U0?/
E&'/*,W^!ZNG/,Y MOK5ZT@^*EGQ/*EQ"W.%*QM&16YTVE81=*YG: .=S8,EG1%DM[5' M;JH87(50ACS-Z@TNGB?^@\|+W5B5GUQ*R3$XT=H0E"[W!B,XC4[*LZ+L2M!|
MMY1K7__F12\XV83OO-)J3GYMX;RM^-F>\MEMT7VM*GRMG66 M\/7R>GA]=CF\$BZO4EW75%,NV^(+HFLIB1|Q_X@7=>_(1:%< MI-X1[CL)G=X9PL\Y15/X!6Z!.=N^Y65E @L?
2M!^CU<6NP2?W5R7?UR/+LY1 M8|K1S=7E^?>_OE> 67@ MAI-Q%Q3Nl:MM#|| GAV MP2P59DXL/#E!|@1GBHV@2#X>O(H9^U>QK9)L?%TS);/LNF88)XI4[G#8G:>G
M.B>61>;<6>E$5PD=Z8I>ZOU'U;Z3'4.U#*=<)=L#2/HO.VV&S4R\A[(/XLBV.H#00G24": MG!XD|#'T(-^RP_HR9+ ^V%FIP@-P!|#_UR\ M0F8&GCEQCY^RB=3P0^?
0))NAJ!6!ZR4& !6 M5K-(@CV+ I[%>SB)EZ]S6!;S"CJK38.HEZLB?COR:EL!BIB3QXJ;/ G8A$G+]MHQ7W2E,%3#0WUHC MH4>":>@T3=&V-5'12%DE98[T;<.$YTBL:!K7@T0=
(5&W=-&02/F+M2*QH\;S M,#_;/!%BX (HXH<_B$((4FX^EU/9RWF]>YG&:Y N(J5EJ6'T!I:DB[)M46(. M<3.Z=D5+$C\FQ(]NB(8A48*?CIK3:/4+TRCV027SMY-
PWZ,NEU.WAR@O"V^K M-U M0Y2DRMBX/7'FH\]+'058!2_HT!%%W&P<[*8'$&I;N;0QF#G0) M4!0CPZJ=W,54-
K=YRRGQQ7Q>/,]0#W3H%^)=I$,\EX>9+IK4&|BR!KG*3=_N MP&B/;]\1G)OH&N6*%=/1;-H ;^WLZI\>B!A @/(B4M(H%#V[$X[5FMG7S ! MS^3-
XSE&KE&"+D*F;0X4FSX;=Y& ^(V;7'E]&I)!N/I .&K1+ M1!FI6UTE9)E0D7XC9/T>'|(@**>H#P:,W!]JHJ9)H*)6U;Q-@ZVB4^#:.X"*: MSG'8 153S%"^]/ D6Y?
MEKT!AWPJ;P,G3*&C>+&9$@60C0!D MB[9""X Z.HS^&D7>3S\(N.593ELNYZTDKG4)^V":)]H:KU;H#EKVJ,9#T2(C MM*B:(4H&+7.TH.V157H:I$XY|U-F%VY 5]KB6LY@'JJ ;=?
&\R"(>7XA:EI=X\YHL*:(TF(OGEOS#G6MX8&_M5=056M#340LY/Q$DB,)QOM>7E\@>%&5]+66\CD+WH$2NCE-5MEB;M 3'N$E< M?W25!"#0X;E>EK*46X$:[@.]NJ-JN2%L
3,SN(%BN|SY=%_!E[_/R".MM#$ M0ITQ+$56/E-B4G"#M'Z#E!2R|FMANS>P)4LT=5HR ,=1 [O=8*VW!)&Y;G^E M1\VZ6BA4W5N2X0;J?2F+AF:)AL5$J24! YX3Z,B)5*ARN2R14--
,2515592) M|1#D-K-7O^2C<79Q?7'P;?KFZ$*YOKOMG-]?W=5=7 M5Y?7?PD/[<7=<Q>G<>V%X?2Z,IF_ .O[;S=7YQ=!{V\/E9^'B'\|O[W\GU_I>
MA0+RH@PE,2EL'%_D[3H:*USN U\Y\$/\(GDO"T\533?T_QKYLSQ*3=HBX+C MNC%T?U%R;O$=[$K=L&.9KZP(F"7=IJX(2*=^*C&FBY8VNE.5OUWN%H>6>A,_HL5;E-)$L2S
^D@-8;_M6+9H&,1T >=ISH8WD50%D-[M"K0ECY;245[RUW++)7PR>0)@!7NU7LO|\O!@|MYE]^.CG+$C@2$%?EIH'L&Q5;_99$BWW#TZSU]X^O 4DF[AP/+67-J!PCYAT]
M.S#E6^H_MV+'$ZNIZ)4M#<16'%&^@49]"NS]HL*C:I"]W_MN'V)5H6&(-MV;V!8AFBHM$",4+F-^6%,.ZF?N:G1=6C]\CABE!8HBZ]HFV3]I'-A7E*_Q4 MJ-KU|H&(DQ'B;$L7-
9V4#4]7G0<;H?#7FO6(!\5K#HH?7$!L*KV!;EBB)M&R-ME9F,QFT%Q@\'D9IO(C.LROLF>7"#X]W>)B\OC#Y%X4S5>@-5MD7)HN6\ M(AXG;S=.?CB4T"&KNB1:"F]2VIA.?
>!MI,H&,.#LH=.$S^'<'8YUE&!$#|SQ MZI'N &=?'(((<% ^T1(EDY8CQS!J=[YM*$(H'-Q)W!?I*K(2A#L<^U9OH!FZ MJ*@=JL0^>O04:2U"!#WH9%5+%O7]>_58-"|;ZR_""QVH*'0XI-
>(1'K-<+-.M5&H 5E.9P\&*V4*I-%51T6E)<Q'H0,O<*A=09P<|*X9-SL40!)Q^ *4V^!-(.4AX M?+.D_G<2+1O$[HY6(^T3%JZ?S.B,>.3 4VFP!%@%PV+5"4D<7&YV!9Q&3.;.M+J9B@/EF4/3G])DL9;G'8'5GMT
M,1.PTBF#54=CNZ,T?UU\PC.Q;=@R-PZ\4T\2IT4>/|T@<R\/G7!9.F% MR<;[NF?7^ZAUO8_9&T@GTF;@<^,/PLR)A2?TM%-AYP@2]"U)M9?';YH,LW02 MQ5+N7EE=.;TSP]O?
KYRPJIX?VKXA0N07F/+\=07GY;L^-S'U-UF.I$Z(F%X\ M(FA+C4S[8>\F]P.H&JI C$>OS^=1Z,/.MEX5&M8^)02E\+!RIQ"S]S3K*HA1 M:4.,E\\&.(NFTRBLU;#*OZ*D%6-
K]5A5A[V,WH!)56(:*]HK|GL6ZV%&!\&7 M0T>#2%((YM2V\M3\4P+,+$@Z'U_-!IX!*MD+& X9/<,);AW?NPP7 MLUL:^PH^_--61-
6@)2+/='7ZN^820@]ND:N8A@8M)$K0T|%\SAU(?A'3P!. M',+W1!7Zi5/F^01>+.9OZ+K9-
N0%WP.'GW7+YO)E"7HJINB96FB5+U_$3K4{R)9[C*SC#UR"]>,OWGLMR14,A:4L297G37RI.%.XLT .L#27;$K!0 M$-LV1&W+646-_^LXCK,>S<-HELR3W(W86FM,):I]?
#N!IBZJR7-~25Z.9*@ M8^Y$4I)%U2;5=(:*S6>$S.#C@]P>$YD Y%04VY$U4U0E4NULZ-J$QH;Y?$UR MYQEK!@U!)?S-#Z,8\F"Y):@T'S2T*=,V>7U&=R"5IXE6AHR.
HGD&N%$ZI:(M=-*9\,5CIJH-R>'NI,^ L9?'U\& /CGS63U4Z75Z4 MH>]?CKH:>UDH]9W@M+ "NS(IW+|Q&'@$?^:5.992

*/G1]|YA&]XZ@0_G7F"YG%E(%,_[+^9N+)C'OSR$"/A-M;+[2ZOO#!WW%XAW>>O?VI;\S+%J0R-D!(-M)T!P7%3*X(2HJ9"P?'6BKX&?/>-3W9*-'A(KNPF.7T!.5]*

M3S5L0Y&;J5B&YMFV]:!#X8G6:ZE\^4_ACWT>B-M<'E]MAN%;I19N^`]\=G-]?G$]NC@7X$^CFZO+\^$]_&5T#__Y=G%]/Q)NOJ+A-MW'R[V#F@=D?PX?M2UXAH/UTZB3+X.^ZXVAK'3049B#.JVP%!W=I6RD)>U\T-MS>;'^/?P39\7SUJH#B3IMP$+-.&WYQZ_D-M.)%R@BP")XMO7GQ\C-ZM/EWS3J1#^7OK1[*)O/?ONQXEPP]4K=2C=OJ=5[=._M"7^-I6E_J?23L"YJ8;-M_13"#+4;"-AM-V,]A:3OVN/%>;?.)N-._YXGE1XS),$@#_SSM@8XXB]0:6-MI*(2<<$HZI"HI>+DZ(YC/:)(4-R:;[3B<')P<1,AAMD\.:;?75RU;M)7*M546<'IP>).EAM4\/%=%#4742IQW3U7N"6K_I^^PQAA?M=)]?BN4W3XMT-8/-M31%UI7+%/-]B1PVN9*E]8.E0W][*:&QIALZ!Q2RPY/:!9>-NLA;Z?PZM#D%+M;1]:9F]@ZY9H$*OGIFGSL*+-39R'F.\26]][$0YS*N9K>=DE#2(+#<3<<]W9#KA^.N+^DK$BBI%5NC\SAR#8%1S;3Z&I,H*C;&NB;-3>RH,'2/>-YYN#FAZ@W6$@[WH-XB??/V@_2VM2@5TT9T.+"KX?2'4KB/4WC[+&D8>[=N;YD6041S5Y9;/ZAL_1.6]35*FT>X_C<9-M4W!"$#_HR#P3FJ<&*=.4XG<"_.RI$*&(^Z4WT'55-*L7Q\AT(.?/24=!/&C-M0OQ(DBAKM*Q?O#J#IZ2*5&<0Y(#6&]@&=,1I.=R+9S3KK\$@"!^]-5#+1<6]8)\MKV.'X+.GTH(@?(S>0#%U4=4X?KJ#GWT%%03Q8T+\R+)HJ;04Y!.*NQ4SW%:.MB*\=3R%;+\=1-(..X12=0?A0<]X_,CX&'3B!SPK&/^ID[20)6PG5Y-M:WT>M"M64X$H.8_(P=8!L-6HV"S;F6&,9;_M,S"I@-MPQNE9$D7[>]-_9H-6T]2_=W?:_4'4B.$[L3-M7'/K06X&NH.AO:W>2-)(A5WOH&*M2%9H441=WTHU@C)(L$$W=>(?-'DG?!M527-N!((-M3()O6_+.3R4-5I>B*[9-MO.5HA_"SQY8CB!\=:E!+%TU]&D!R_-1NR!&$C|$;&)HDRG+E Q$X?*B!SSX,-MCB!^S-Y5TW1MEA9OKH>DOL5A\'V-FS.=[4#_TD13'FITK-;+M)@WW9O'PJ-M(0V&;Q-Y*!?0EB@=E2N2.ER&^\,4@&A^^0%&$-F|@6V+)K&FFOQ#6.H63UD-MHF.N:-03GF^GZPZ&]E8+$.1CIHL*(F=;S%$=\@?V2^T![E>Y-.0+RV=Q R M.&722Q-'08VS)6*5W=R?I@!#>VQ XAA"&Y|$2>;'FW4'0TVk(0TZHXHHZUP/M=0=#^VQ XB#2>P-=M*N?E,-C>T7+|=(X<],L1B6C|L2)QX#W*3^@UNYU%L_R M25Q'_]/_#+S^?T <,0.]T8/PMA19^4R)Y\/=YT:JZ_: IH"ZQ$WE1,LD57+/ M@=,^<&I6-A97-MW#3(&\NNK*QH:VF29]*BW*XCA:$T4;.WIX=R*BX;CE_"IB-MUJ5Y84FHD89%K@.0:T#)X19MD]:+ M9W3]:5,J0$I-(N,2BGX&28]WH$2HY&!AC@H?M%C'1CZ(0@107)\YDAEY'8;3.EP-+>"W4<4X6S>KMYG@)$#WHV6-1DD./#7U^ M7=0X>C]$G]94CRVAT\$,N%KSTV&[(N@YY]9AXY^,B]@:ZAMJQ3<6TO1-S(0D/-M (H'+(VXU'FN5G1XA/[/'KWZZO9\C:/&;S7#S,X"PN_* J3+U@$^77W2-7 MSVGLP(GT0R>>7Z9@FD!VH6^-((QW?VF$EZ:6@C8'R]}=/9#/7?//4D3 M=%5T&)LNZ@:IO=$%/V_D&>;.3P M6+;_D@4LO"K8P>E>63K.Z7L!AJ;3AS?@W2I<'V"-UZ+/'WZR_F!MV*QXVI7U)OS%$V-Y M^)6O=89DEX0\7YGZ5TI"A^KF$?K I6F&$G*E;1+S.!LEJ*K/DMZ'14VXMH#YX&H^NT0V84Jf("BV$-E*IT$K=M%"Y%F(15)lV)A%4;0(-9JS-RW$QE%$ M',';&B.R[!"!9#CV-HX>_?2 ;8"*9/4&Fj2)EEW[-L#.N/0=Q=@>DZ\"QFP4 M%1%:3#14.G'6)3_(J;H++(P!/22(#2Z:]$D-$!/Z_;[&/@ 3!%D>:=U_& 8\6 M(Q30[U[61W!?1GNO1-G@Q7T=05;1XM#ZD:5B9-F;=24<62PBBQZ5I?4&MBAM M:0+!@<4BL I*,M'EHZ195CM(ZNCN_M7#.YU2W.I7#Z-9.M_8+U2C8[9M/E&@-MRG_7-&%02:]0+12GE2KV]TTPT4L[6.)9[&672T+-K7FZL2BTP4E39$I?)CIQ%_M-""+L^BP'F652&3E<7=;,5.KO(!HQ&E$;UJA&H_LWI"R)-&P-!TWVEBT\.Z6 M,[*<4 URA&Q0H<#]*Z-4X5"*$,1_;5A'OKHHWPU!M_N.$]FMJ>XEH&'TSVYMJJH)9GY__CZZ(I<3)P.E!%AN87AGR/ MNZ&(FD)+]QI.!LX&0MOM2]-!S6-2=O6M(2S6%5#C$!UOWR1??1-51RMRZMB) MNEZP?$*2,,_"^;W=^B:Q=YPL?R@V91O5-32VKM8A&K92TE%4IC,9Q%G651G;6LBDVLEI6SB 9D<I&!U*\NJ2@1K63F-;(6IU$+ MM:RJ3*R6M786$;EE)50!5D?J!*\U1EZMR^U:-]M89P!2;N+$NS;2"GWAP4E\-MMTI=*Z%J9'X_X?N/,XE+HJZU: R:.>-KV\!8,[%N03Q^&NW!Z]E2OFP#/O@+ MTH6+IR_,+>G5W%)Z ^7$)+5OB(*$#"= IPB@U$T %1% (768$B<)P!1 M2^ M &B]@7EBD&I)R?'/\4]V 5#K)@"[@3JI?NJKQ]HJDJ5EZ33ZO!WZX8*^S@$ MRH?VDMIH#:03>3/?R6(?1K*%PU.!X.\DH6#9NV1>,X/@(MW$76]"5=>EC"Z)C]>,H-N3/*X_T8XX43AW#,R?)V#+ M"D"34"3=]VD;!9BMC)PTG2?-^YY:8=+(1--/G#2<-!23AM!"HZ"4%6^\S3ES#)S9X]H5)HU*-,U% M>5$U;W7+WX]DVQU7F^ "!=:>'Z"_\M;!W;L?8_T3[KRPE.M*<&L!'4TY.74(MKUF4^&>0 9.8U!X*3^$_C\T_?2R7*]6]DQU_"GTNLMS@-<-B"==MZRPA87H(/-MFE]L%?0FZAMLK_QW\K(%$9PQZ#_$P/G1=0[&AYXZP4]GG]!Y7!GU(_]R:N M])@'OSS$2#B;K[3Z/4X\AE^%M)}>KY?XC-H7"6"=!VZL$!0_,%"&P!V4FC2#[:&]5W@K"M]SYR1K3N^93D0>&Z7HU<72_G">><)0YM:]BPH8U.-/5^-80G??;YZ_6 MW7[!S6DAK"<2(4N_,@A'-ETEJ%3%UR)W(K9+![?NM",P>Y.RAS/^"S\;>$,X,F<,KK/I XAO'G,]<9.E2>]$ M:&(6FT[+G??CHX. =574]KNY].11.*KV'U98+ZI,A"I%E)3*!>T<532AJE55M9>6@LJS*\JGU'\E>6+*CM'E2)5/C'2K@0IM8;@(@9RD"FX'MU8;(O= MTCN@6&>!SA'L/6\6E]PRJ>R5#+0Z/NU+%?NL$8]M_O M K32...:-F=!"HYX1 $<ZJ8+CHHR%$\Y1RF(YW41? S_GU$_A4-T"+W8=I2!! MC;/.HM #(4JKP)!P0M1%9E?_=)7?C%PBB%?YC"]4N$#UGH9)X//_]8RQC> M?>.3]8+0 _L2'66[*&UWNRCTCDA/^)YJV(8BU.Q#,VS;>M!TQX,3[)<2P>> M*?TO-#A[S'5U"R;V[G^^_7-[>CWD2A<7I_M1NMZ(ZS&]-/V=SZ[N3Z_N!Y= MG OPI]'-Ü>7Y\![^,K]'_WR[N+X?"3=?X4??;N\N?H//77?[SM@WNYMM%;3(V M,YX/WY<;2D1IXGQ029?!Q7O*QH#A8Z4NF*R>69A)L&6?0,)3UFR+OU/A=S+? M_^X]8=.251]E;>U[?PIMC&OP4[B+IDZX@M6(-[NZGZ,B9[^YBD.2]V3A?B M[6V]!0>S/TDAL:A-WC=)!$NH 7F+8:'5KG\Q[]EP5Q09;% .-W53-N<;)HE+0B*1J!8>XK.&)_]M2JBJ!3L\&! M*&09.Y?.[/%E-^CV8\_!AZ-V_SQ_P M9?]7']=*+QY6;Z"))MMRATPZB;QW.WON=X)WJ/2D!(-H*X\B*FJ5-M(=A&;\6;A,& +[B?X G MC!T_3'"#20?\63A/CE^@&KG^E#*_ <1!E7< VL)^ZH-$Q'UAHTZ5)E*8R]\]*NI9"/\1-]-;TX!E7XWO3?0#/@<< M\>DOE"3(C_R$&<68(* [PWAE,=)N6U0VUPVC-^_!%&@'4 ..6E58 MF;V!TI$3?#D]]-;?;0(F+VH!(YH&+;.TZ.-3:=;9[O1]?)HEJ=<>>MX4IYDXAM27R'9?D-<^Q6^&OKC%X"2=''?#9PD\1_AO**7.4!W6J@3D&A;6X[E$IS0 M*SE@!L8KX_&FW[T1^P5HXWQ*=X(A48?HGT_TWS?#T#[?H3E/A\!U?N+ O2= M9\!%.[.#N8AO03&AYCV"FB<-G4HCREO:ZAP"DDTS@KX!H_84FFC;F[YW#A/@ MN!.L$R!<$B<_(@'4U#ZW$?/0P!1UP%R(O 0"_$02PD@#%$W@$/0@&KJ1=FJ MW"N-^S+T0*Y"3+D)R*$S)D1;XJV>NP.YRI69EY[^\GI<;FLI M\V0W>F.-.+1Z@U4;?-OYH8!)^C8T<.86@[;MAY>ULK6*D4'"$#4T3;9J$# ;UDXZAK'W6-F4'@TW#6DZM[NQRT%$#NN:,JX-1IT/4H5.12!VZ04D9 M./Y>5<)N*VVU"GLWZ.YYJW!2H>V.5#G[L,)!TDRRKH(A>VB|CXU#E;9$*A_3 M_L'EA(*8U3I*T*_YN,'!P,1'9XH*M86IYD8!KL$0W8PV%!>YV#@H>I.0U2E MS2)NK@([H *;2O(3ZR%+XY0Q^^15FH;JS)JE(FV^VRF#2CL1\;AVJY%W#9.%=R+M4C=$S:YL/W.\=@"O^TSHM@&K]@:V;HF&0OQ@(4$K,[2H;B)H#U!5(DE/AM:?_ M(GXL. N) P\=70AETU\1.;PVESFN%XF!!\ 4G^6UZ[HJH6=FN%G/)BHHFI7]-MIG7P4(-FCB@:6U]!>'4LB\@J&CNN'UDZ1M:6_E <62PBBQZ594J02LS38. M'%@L]MPD4/IR#(QLK9X_(TCZXCBNV^LS=$\C&;)?*-@H:#JO_VP]'!J!8.9/M):@V(31]EX8BXJ6U!VI"+>NB3:P$CX0$Z3XHA+.5LY5.3] T6VT4WI=$VR"< MBSHZMG+"5HI3UCG;W(KXJX^LJ&+NMG($LMYRWG;6=Y62!"5)JX, 6K#% V; MU"Z!%FF+/?-/,.ZPW .ZLNU|ZL1C/\3?^Z;+87Y2=5-P4! <1@#@S;V.BS8+ M.,$<96664TWT-?!S3OT4#M4M\&+740H2Y.R?1:$'$08]?_@3%I*#P@!?_=) M7?C%PBB%?T!|]A/A0Q8ZF>?#$S_6,H9WW_A0:?OBL1WB7CPRT.,X++CML7J M->7$1%M,9$<B(SZ\M;YK%KSTF MQ]#_$ /G1]|!^Y=.G>"G,T]02UTO?G9S?YQ;HX%^-/HYNKR_/A;?QE= ___M^79Q?3\2;K[^WVI._O[;S=7YQ=WHSW^R%-G\+%S\X_OE_>^E>=G,J#Y\7RHK M$;432"=1!A_G)1^K" 4O.]]Z *]P2?CQ))-ZM[)-DC-$RG9 MF2>Z3@I/I.9)AC?8VS]|;Z+L$XD8H$B]$XVLDX4^_WO7]3QWAA]LHQ[86T/ M)3,X)'T,HU"'3N9VC^UE)/;&2/:T\=YW61S]+#%'^6+9Y"QM& "+AO(SY [! MQ1_;CA?/+D@2(7K$O]TZ,?!WGTZ0I=[?\Of8NS5===R!UX!^]?+*<.(3ONWO/ M'-S#WT.Y(LGN.9&<6J-/"YR6H>MFTRQ X0(,WA+/(YI+7"%_W*%X$% M=2,,E1Q',7OW$+-"T6.<,4LNG#V'20*IF'N1+)RMG)9.9Z^_'UAKINf!GZ$!N9*KJS$E@\;A3^:-M.%!AD!KHOM-R&)^LX33*PG>5ZQZ.U%U+^3(E.++7V+Q|<0(G=%5I3"R[9ZGU+*=|T5TR8[A%'Q_)U:$5"@4&S1*]M)0=[N+5J-.;&8A-;465T,)*HM]\>R;Y1S|*@YJ%/00V7]EF*:'F53\[@/.0\I) ^`!I4\U%$;4LVT1-4@7&++ M>J1"4/;7 \N*$>2V]4SL&C MYN">/<[M<%"1\K70%$V;"1ZRUD2S&)!>NV<6*>0X]#480[_;_4RT5]M!;>WHMI!*$L2]F=HAZFH$9D[I1""8XSVZ7FGU)4,30H*^M%ZY 0N%W?R._?G\=R. MI@]44$[N4Z!+E2,5-UHZKF3M 'OY_?7^5^)HX1K\$HW5/R5\-IB]JB$SK/MF)]&3PV.]C2,JP5&K(I%IA!&;=]_I#!NX71W53'I@O$>8W7900J^*-B-.GX5 MOZK)JSAH^57,7=7-G.>B:T&\MZ"GR09.G-X" 3DVVJ%GWXZF8# 0RNE *:$M0)C;K3.\SL;WH\AU+9]U[%.9#?0)9[H\RQ&L3;X5I&7[T!>=@C'"%]V!?!|; MK!!T0(E4>7L5C!'28LH>B!K<=:PP;%"E%X<,S9 IERTJM=VE"C*.44J.L[! ME$2K:R?YM7U-AZ!=\"MD;>T>:!K0. :VJHBQW<8UM^.X.H:J M0#5%LVN'1;=[_!$BN_IZ/4C6Z4'V=TL),#BZ3\XZ*@75$X PL1+!\\MK!7AV MYGWW9%T5#+U_9TF*#P2ZCX9P_.B)3G#K^-YEN.BYC:,B&&IG*TB[W]D?N*G M8 3B)]|\%N0ZY VXT#O%3L#HIK3E0XQI+$C69U!8,GJ+D]Q^[$MA3:4"=$M"[MK 2.%81[FA52!T+<*$96:*DQX\"LO52%.@CB]BBHER.I'GY\R^G65MBO' M:,; V"'SX8+U\\E$/P"9Q(P'3MA_?YCC?UL[DW=$?OYYH=1C'24YT@^FSCA M&%Q"#>:.!Z>QP567U!H]HFF;[1^:X,CZ_4=+1]#)@KKH9',Z<3@WGOFH"=4KOXJY]OK-8;5VW.[*LF">N[6J7/N1\PH^K*5KWOZ3)(\:T>3_-V MC"WM6PGWRZ(A?%8CUKK6L.Y;[>JH;-VJ*:DQ.I4?*\"IQZG7%O4T*KNU:OB$ M*]F&+HW!5SY.O^]2C\|&WQ+B]&=G];EB9*6NT'/7+Z9ZFW9]M&2\RS|<(G:Z):O5ET M()>Q;9,Z7;[0A0ZIU7AETLH@53@2+]0A?:*-LJFN*OQE^-OQI_M=I?K:%" MH=EO;5:IALWC1Y O%,.I%8O9^IHT9*VI_$;R:(E';7)TA51TDFE;AGP$+KJ M!W3)VM]'@G;,?5W&949=V@:+R=(!LNSI:](267!-GF(:(EQA.&$X82@B3)%N MCLT31NT-#-'49-&P:=GCS@G36<*42_QOE'U3E?C74::VN0;HX89SW MK*/T_@YU)2JUBN\H;TO"67(*8?MZ3.PA&FD$9D[LI""8CU+X3^DC#*0;[VW2 M;%$QNWA>U[*??ZRDVY$.5$#Z0^HVZ3H$N9]P8T|\&^"@3T9MZF2]8^2G M=0AU94"W(Z!&"=247-.9HJQ4#A@0PEPW3TJZ22<@%M 923&8@##QG\#"(1(^ M/%#%Z'U].6DZ=9P&.![C!B.5#PRDV/OY_43N/X8:X6T&Q)!:2$SRLU6.OZIW MJ.MO'N^=Y1(J&G5Y.D15ZE EU!C:$\TM!8<;1W&4=OW"RF.]V2,:X&Q3AE_MNQFOO\UB=^(D(.$6Z>(P5OC-D?MCIU';(0=O=UAA^\XA?4|=^-IQMOG>H:'[M1^;'R&7;Q+C1&VP)/"OGW9P,%OJRR #GVJP!,99E*3?0#}MD($GEX]%(L;8AA?T@=MOW=PBNY13:GC;DQ6!:TNBS>P--%^'0NZ7RMVK[;#&\Q _^\n \.FQ#',.4P.PWM\[UH@+-,#X6YFB?+21R26GT[L88FC&<:Y M(9X,XL&W]QV'E"\U3GD61?CIY,)"#PD0 %,9T$T M!P50('=I4\=\O<()YFPJW>))_H\BU$A(7RKR,O336O^X!WQY5&:.?BD%4/E M1=%LXNJ_-0.4.&(P@Y,;<(&'0Y2N44ZOPPUL:?".L#T%-2(YF|@6$8HF%M M[EWB854.I=+JL,@ANI4"VNH-=%41%7GS*#/\/%@;.]W<(U1437JTI,+2A5=5$ M,ZZP.;2KY\':0K8E483L;]'L'SZ#TX"/+R5"H2)@^,7I\9XF+%(:FRI M"XJ$&G'8!$/M, 5I=^"/S$_]%(Q ,.2I(^'EUXC@+YJ-\,Y! ME-Y_K*&?S=9\.V(_W_PPBG%/T1S)9Q,G\'(-+J,$\,)T=KJITU#[45GCJ[5/W M'RV=BB0]ZJ*3P>G$X=QX4H+GIXVZ,P\,*KX&J"G<9KDV(V@>@<K X^M%Q?5'V8/B>_YSMZ>%FW'[MJ^_TA]YL(%3F^5QSEP42X1?(VCZ:L"24HK#[1I M7|1L6IK2TP1)?C^G-)%T0,.4MKM+Z0Y!JF)#Z4:@9$NH0;2F;0;I63PI[NA1 MM"=.7QA$FSB1>P-,,]M'24,1]!_Y3+<(VMPK[BQ-@O\))A;]EP3Q7YZHL M"HJD:"]3C=_ID-U,#U'L@;B?1K-3-/=)%/B>@(;"#!M*[G-2]}1@YQO+5EKI MW61IDCHAFHO2JA0U0-=5T9!50N76Q<354E"]JS1$!#T!9:N1&SQ*HM2\P^ M2K5S_)]-6EN+NDIJ.QBG'[<>===33-DZBIH)Z^-AVV59$U> K'Z=?=^E'Y;G6 MMMX;F*)E:.*DD=1.S^G'Z4=?<$/,."3[O?U9S1/1P.N@98F:6B6-&U+]$.&HBVR:G']==9ZFU8GA0P#XX*+WRR)IFY6/D.F??(GF^ M?(.%*%1(K<;KS%<&"-]?*(,[1=,&V5,)?#\U?BK\5?CKU:[JVU7QSIQ=6RW MO^THCGZ2*-5R 5JGF[1;MM=I+?3:S"W[XRT[\:7#?Q((($G6^*?]MU8OPOWNOS MWG:00R;E2"X#]0. ,*.73Z\3A_|]=S?RYG/YWEPN6[+AN1SMVZ/$)W+G1 Y= M-YMF@9,K=(D/I<8_K9U;C?2'T\M?$!5&|$GOE\%P-N!'VT2R9 M)Z] 7O4Q+|G!Y_2G5-;]?;f4%9;R,.@ M!AF%Z>"[%W12D]5'?$=QMJX/49UH,NS'J .$K*B$4=YY7_M,T# HV1R>H=3 M."BR'9^:[D+0VB:@X2SV T&5\ 8@M<(&H,4$%,92A_8 &7NJ[@GN =(D&>T! M4D1%)}5XLPS[V]AR62_BZ%@BBR?D2@^:)?IMR4@_#S>V)U#!0PWUCL,=$CM9OXSD/. M0Q9X6&J/@D'U'@5-PB??:HHEFEJ5XYTX&3D9&2!CJ>,"FR8@.BQ8EBJ1).9R# M[,.29W4-4L"Y9O\F"I*[^_0022EU-:.MPXB3<):<0MCF1<>HY/@0=34",R=V4A#,1RF]<2ZKOF2I-U"A\E)T4CLA*=AM MS._7D+E.N0Y K%3,U-ZIJWL1,ZP+?)K[00=)ZE= HAQ4MFDS9MD9^F1).ATZ)5733LRIX/(%X5C99+CQTX4. -EB*0@B=[NA12)UG 8X'N.EA&SI8.'6+W_V_<=Z.)%9 M]!A53>U+=6OM@DT5&X>[YWGTO8%[E*O6!0<8<2Q1*"'L9,,M;O)++>B>QU/;]MQXKE3<>L22P,U&"YF]FDVRQV)TX"$FR>+EJQ"\;?%=VA",5N)FS?K6GNJ;)? M-K-9V:\Y=/_(-'A[_,KL#S%Y_(IV=&RS'\M S??6B+C+$K2;R"=1%LQ M8O4&5>JP.4)HB7";10Q_#T6*O0TH[.=9VKZ_0W M]#W\/(O!M-R]IZ"DO22 M),*Q=TOGM7W_L8)X5X*\5A#+',0M0=)5P2 DK]4L\MT>=9C,I>X%M%7AY<6M^=R"7QS9MKO8&AD"J:1^FM, Q .>_:.U&#CH#'H M4'.,#AE:(5/.H2_5>:(<>$H.EWIOH,ZB;^(&/Z?TKT<-M;#0%#&T!+- M+0<]0+-.$G42'&8YIMCNS"Y4U(]NF!]G=+!['%XND_.GP&Z2NL-%-'0 MJI2L\5@F=?`MDZ[R'58K'61NLC1)G1#-16F7Q^X-9%T196)[?X)]R47OT:I=>W.G/41L\2J M.;:8(E8?':,B,2-25S09/G']<>EVA'I7GQ6DR[ANHFZ)]53Y[@M./ DQR^FVG M'Y5'Q6E*;V! ZMFBQ0U/3C^VZ%M%,[_1,9 M\^4;+&0!9=5KO/9J99 J'(D796C[S=HHVRH+XZ_&7XV_&G^UVE_M:(J9;MPT M>@#0Q6CV34KV>]:-52]-> 'BXDJY8T*Z]:4LT.=2RNC!M&'8%.F?M[2-"2N6_G M=4:D3'U.%DX6$F0ITKJU<;+HN\A/LTQ15CK4W)P3I@.$H;**5 S-%-4CMI.7A3L1BB_BE_5Y%7=/*OE_[*W MYDUJ*UG>\%=1\$QV!$JKO:EW$%$N6SWXWIM*C^NNM/1?TT(2 JUA41KJ3+!MZ=!S,B402"Q" @3D1(^O#4A*G?R=-<_R&(])*.#(RY",B1^YKR1UX(5W'@BL MJZ+@@T\?C(38^2W_^Y!!/%I+?SZ5EY_#4GM94,OEOQ$RN3W>1Y?6"1@GCR. MGIW?E:T*&:P*01MM24!58ZC@SGL\\61K)UU,H%1276O\+*:]WL+8G8SRD%<[5N=X-,)VZX1YB!3PKX:U+*0UIM!T^9+5 %.72(50:<^R"*OY-X' S+4(*#V.IT#^,0:8N6M7=-M6=\7*D8I5,[_;,4UU\07[N)M"T=AG?#:46MB ?[AB2:ER;T3GW]U8)XBX]^M$!!,';0&)= M =E)D^:&44*&\]0H=O8BO+GQ>$R\(>Z=0"93+Y@1@GE39'W&U 5Y@ T?35'?MIRLE]*=;4FEY(@Y@B=: ST5)9+>Z1F2*MI:"V)4%H-0*M0=7HR:!F= MGFR+LE2L=N/(.@>RFCS+/#R>:<#*'+8FF770YSE\5GOK2"T)UL&CX^\;ZO14 M152TH]5WUO+RU-=2*[*W!HRAVRI/2/C[#@3(3_)<'CQZ5VH.*DI M.2P\(Y4M4=(N]'TVO[XEVU'^KS-B2T-!:M ,.EWDF%>;]"-WZ#L.YR<.G1WZNNOU&7>.7%M57)\(@.\221?PF"RNTQ1 M9E+PA2-7OB'P=*-I972.IES+Z\ M>A1MB_OC*("4&RIT[-KY26?8P\]Z+X>9*O-TJW^Z'C4JW!BX>^)-V/""7)5% M09$4=4YGNJ9]:M3Z03@DX0TCY.T*M!\&"<;H\76R;^&];W%;HL!SA^R;<^&4MBK5MYI8R)%9,F&NZ^)C$4>SX2(NJ8M:606/K"NCLVH-3&]S,$P6S3H;3DMJ[8F86]5COW2SMS\R M9VS.V)RQMS'V+H6/QV=LFF&A6K9H<3,<,59G[#T"3*95I4+N^"RN4X-<4T3+ M*D;'*Q^5<^[FW'U5W&VWF[NQ/89FBHK50.<5SMN8>-*^XN9]'D=CS[F:9T31UN M-0TB6@MP&Q+/B=U?\N'-'<;CC)5S%Z;(E1:7.'T@01*OO^2T<#)6,HER?^(: MD=?=H6K8ABH(34$;,6C;5E_3^L90L@:63H.F!+*Z/?THG&8K7QJO)";?DB<M7S?.'"%[KUO'>G%F$]:D5)4O6[!9C'TS/AY_OGMA^__&TIJ5.^Q;O_LP$C"BX/DC.((;#:/W.VX"+)-]_MA06#4QT$B_:<:41NLI]\&+K1U'-FMZY/%T$O^!#>^Y4*N*>KB85((/9UBGO;.M[IJ2B=!/TQK3!Z=RR]**L9MAS1UK9T261_@$^$[_&P<"9_!<]BF;X=2F_T5\UL%51:77OB*]C/G2ZXS<4NL MW#;N-0@AK:G7W%:D=/ZD4JL OG6EM+N"_]ZQL+("]XB810&$R&8DA"L:'!;MT%=\|3.91++U"F4;0=.A2N:]+>[<&@+MBH$'$H/Y!XI5J.5.@?!+ UJZO6#FT M=;H0U:ZO5'(M27P_.,1F[+8B]%/7IDD3K&S5)E""<+3W' 67@?EN170W@ MRYV>9U4'(N>7K]#?[X5K:R.[@89XQO;_"3XP(DU]D0(YXA4P_M7&QP-I=S^#G^:X#6SS0.7EWP?(3^;(OY4U!/=^K2_GVN:\B48:+/;]%-#O'[G5OXP3^7?*$A0KLBPPM'!H[>6Z!X<"1M$WE'@1**H.2I*HM@5)#RKB]\O4G&2:#K 770FMZV*) H,2Y M"48W"?S#B2(2[S>QM37]'XXH*95 ,B)G8^:KLY#1Z>FFM^)E_Os%X6[C.#X2L,Q.SY!%PZPMF[E!O!M *@^!NUIK95L6/"9P^K@Z=*0R M-V!6NP8NH<(MW0O"SK;H0D/@L2[T%DU[Q>>>YP5OM*4>3J49A&3HQH(7@&/'" M#=<-<[CG-?W0AN\B4((P5)/QXEWMU.,2I;DC(>,"KB4;]@ &W4-L#H\W.19M# M$=94!%E:TKBVE:9HEBL,"R7K 7?(7_$%'GB!QSL+/ZX(^!L&?H#U(V!!.O ^MG,>8O+@#P?5?27HF7J,[[=F9EI5::FS1]DA.>\EW=;L-.D/MT9.R/W-QG>_(>$01EL5$Q6MQ19^7!9;LFYR=G5.'P_M=(,_9V=NU#-5US1_R^CY ME9+S&.EYYP_AO_,_IVX:-_F?@=_329DZ?>U"]XONM9(E;]*MWD+UFAV.8;49<5^QO\QUZ-A#>"T@'>FHPVSDX5<_(^,/.76K"DU%ZO1T6Y3U MMDA-KGR[T?/ BEZL*V(NMR6I-TF-7%,)2T>G?AQ$+I\.%3=BRFR08Z!&_ZQI-4\Q)KYILJC%DXW@O\EYN8A).K*I(_K B>AUF9;*_&(!OYBBKC8USYM;O"V 5G7A>Q!L85FG M)>IF4Q-QN*6[@Z6[TANJ@B^;"ME4TN2529Q_>5^/C4X0Y5H^Q)%KS.ME9N[M+0+2QAXDAT22W.GIBFC++4#2-9B[?^LF2I^=W7&01.FRDXUYFFME'E Z/463 M19M',%N,HT,?C.T/"^QF]JBBK7]|02E)VGC/&Z<-BA,LSYF_W#C\7T2P6N2 M,#,R9I7Y0P.WSA5L]B2A!NK9PFL&@=BS2)+Q[" _+*IR"]:KK2V^F'7L0SU-MRZMK#.QN#9)U&. %RN,TL!\W3 , HRPVFON&=25^9KXO.S(T46DL4[+5 M8^0Y!O>WI|(0CR)$U73!!@V=IPX*G5S!OD#4F!@X%@ MPW2;@4^3D&XN/8_%!E41[5 U#L*8I< TTZ+]HL,0V_L^4I)_8ICGZ$[?_B= MT7WV./KNA++\(^(7S]1;I7E06H5:G9UNB9O!V*A>$]AV:01X85C9H9DD39;4M MQ5D7WVCE1Q(.QN!]R*$>0!L5_GKS"CEGH.[5N?IA(1]!KK6Z!6H22!S35&V M6M E@T>[C1&)>!@88;&B!(B.?CEYB.=M$B]LX(;[M%ZTL5+''!*8)O75XB+5M MY;W0+PI1M+:'(,M78%C6G!"Q\WA MDYC#10050:)W>F5-?]MFZ9[AI(0-BJ;]D8YIB"?)\8P&H0F@:8H(XGF3M:7ZMCY2P/SS'C\%^-IS1MK)XQ\I+V1)-D^=.7@B6*@XYL'$1[ZJ(>I*'[IM7GQ, MF>)Y>Y")U%QT/;2I/UO:K1*]QO?:NSX+RZ60.U5CZQA?:5NB';)U&YN0)\E MA"K+U]H8LCL]71;5DOSTMAG8YV^_5B=$SZ?-1,$H?G-" IO^2KR -L:5B3,7 M;<@>/#H!]LQSK M0P#&>=F7L\3XY.(#L@I39VL8V%?0BKR0>J9UN0D?\WHOW].LHZ5HK(MVF8# M?:9.GQ/?D)U^=4#[[A37 M(Q-48_*R;;0OB7KPM^C6*$M@LEJ4S"":3)\<#'Y=ATUZP SX MQ]$SMDI)PMD3TK.R_.3S8DT5Y?HRMQ0.0^(JB;IUT415G@:FIAM1N M,MZ M.:$S?0@[A1K#RF$Q'-B J9]0+-SHC$>(D4N-+$#XAT3\Z$1G>]0_D[VPG:A]*7P0,)S"WA/(0PL+%

4=QE:7YU[-.KRYRMF<+=A.2U,(5;%E6[@5#LZ5.X&()R MKPZ(=5.XFT"BW>G9FB+]9IUTPH,C\5(IFW\>C E2,L_& MC+4K6+83SL?O7 M'KU(=#>-(PI|\N+Z/D:6P"&9$2<406>EJ&"WH'6F0S=*M+I^ E>F4_8"_ZJZ MW5;A9>V K#QGVD]N- TBQ_L;T'4*5WS*[=`C?(LJ,S+MFZMILBA;,;3$4N8?2 M_"9MZ8QU]5-0RK9H&,6'79^C|]DF%4+@0^R92TV,2NI#J%_U> D!Y"I+=T6-;NIR1C\(.1,<6PI9PQD.B'6L$S1UFIKH\LZ1SFVGOI&HNA6 MV%U;<6^F93IGB4/S?-L$GV)-JHF^3$M.1N[*M%US'1?2.=]>GB5;)N!'NP)S0 M@6$](=U?&C;HA!V5.6.T+8>]\?F2[C,"G8-C_VM..^]4V4LO=? MAU2F5262)5&/3%-$26MJ5'=#&WTHEBXWS-N?MEIHFE9E;9EZJ<LI2PT?,IV!N M:JW\02?(9PHYU^QMXH0OKD\?O9+0/0#:D; 9S,C2-L(@"}DG0H1X3 1G, @F M\-096A49J1M=!KW/+9W[,-AA80]!3")LZW$?^$/B8WQ(_(WN$VWXD2:7.I[P M%,,'K" (N\1WP J&[\|?Y!TVKKB[,(+E=CS]F:9T361DL-K1*%,VKS$?24? MWMQA/,Z8.'=A"EYI<8G3!Q(D\?I+3@LG<\4,$?V):T1V=X>J81N*3$S%,K2A M;5M}3>L;0:D;6#H9FM+_JB -THO6&8;;NJ?"-;OHA<7[=.'XK5O'>W-F$;); MGK> L5:H?9500;_V0^3AXGN<@.IF.=/^\^QOI,_GT3AZ\/]>MCE!(U^1$%3MON:'Q^>/?3\+SHW#_^/+H?3YT_XMZ?';U_W3W#/]Y?;A[N/]ZTUX>H8/ MOG]^>'XZCS=[]V=!Z%1&O-;9]BB.NUL@?9G:E;M":E8\)!.XV;"8V+92#("# MI+&M0"[XD*EYI2/,@Q-W.3]8UVG;F!]-H%@'C^H.N\&[Q[S!#WN7_L))0*TP.KW[_.GN??XDE-U,>,4W!.N& @B?#J8= MJE[\9^X!^/1T(2[PL-'):"4YU-)WWW]\;XK_(,(4R>,?1(* R^(B#<3WMQX M+$1D@M?B1!EX.]@@B1P!F$0P7_@BB'6'V"N*J#"A:O0_&16PL3Y M[4Y@)|"8<4.,FQ G'(SI+9=F2CE3IP\+3N>E3K-I-O !726V#X.7=KS9?Y 8 M:!H!C-,SXU>'4IZ]J/M"_ !9T^-#-W@OU_>#5T:?.!@Z,[C6B06@MDL-F3%> M!Y?0?CC8P"&8!&$8O&T5WZD-@*;B"9&;DL817KR@#_ OK$6=(7U]HDNG4FV7$ M C0MAGE1*A?UDQP(Y.(DBO#(&TL',64G"\A->H&;C@ H$A[_4^ E2";Q((MQ_S@#7X.D!B[TP@Y)$6<2,_QOE8V!<+#4VC=(9CE %VT#9>VZMW=5^"L$+;0 M[_>;KX0!#)<_2CP/+%7P"=B;P&+HFEW@O"VGHSPQGW!A^PFH&Y:$D,7LWN M)R[S3IP-M(*73QP_&8%7DX1I%ILS?,46H8!1]P5-8W97W_&'"%_;ZC'588=6" ML/BKL1,.Z3]HX26L,650MI0+3\A[X M9K*4) ^$%R?"FCQVYYFM.R8BC'G = _2" (8GKSF_2;/,6.0!W.'O#F S&/O!4 M(!G"5Q>;IU*A !@+PACO/B;>E$*A8!(;(\@YN++%BF3H"L]C$]9.M+[SQ\6 M,D&%>X,/^<1>X&XA+R/R@N]Q1FR+] U&(^.]61^B'@5.F3)"Z(_"M CJ,;TDH M?_V1E_=O8Q>E*I(|).G^YAFWA.61<^%AP)[HHL']/:_"H(%"U(1A)X(IF=M R1VZ$;_V 9_"8+6/%4.MDIULMM9.5JK:R4]H&]"6\..[P2!(D"(O M/X'0.]$SW#A1X]VD,GL6+7$=E:+MO-3,@%Z4!,C]P1A\0@A>P;=QH|@TE"F M_($FDQ_3+=G/T*;+*5FBTAKS&Z3AV*&L0@"Q9%B,? WFP.9!/M@TF@>,HD6P M.9J$V.";.B6\49B7&!@8=W+XF7Y@ZBO0>_&)"(J-]5LD@8,<-@-XJH.?IT M^1[4Y1_+]9>BJ6#M U:E;DQM*F!\AX[6]48'S"JrH2,@V ;XTPP1L M:&_H!VIS ^P.5.0HFA-9F2<@&D+:A.$XO!?8&2DH45\HLM,N<#W*(,Q4HFP M&;"OS/1<7'"%BS32\'>]_#N7O(X1:\%#4,R?"_X!'4#\BJV,W:$D0..RS3'MAIE$!>T6@JZ!9*7B1=`3/-1!>1.TF36[\"@8%I'^2A@&L,)X_AR7{BE|/ -L M^CNJLR?@L?0)513TN)FNR9^Q1>>%;(6S*G%#!N (7U:DY$IB_(]83;S@M|\ M&N6-QD'B#?'Q(;@5M!Q\/^5^.P4@PG9KN_;<_A NR6N&]"ACL#{QT#[T]"MS4BXZ1?8NC3 (=W\?RNEV&;P(Y@K#F2X6!SP M+=.[W$Q!,O ^IK*2_?U=8!""Z(%9W5QY_8I.QSX\&8&B2"[!HJ^K>>))W;7R-M7'/^R1K$SM^A>YA3AXWZX#G(A%4YG!@046RB.;008"B1Q)PH$2,]/#O7_ MV?LPK$=1,IDR'4"YS&$-%:C>F.#$PP[F" ,'L5U0".@) ^`%(/&NX|H"Q#PU,%(4-5R7QMV3E%BV?N&?J-.0FNF_ Q^S*H3/_O"@ ML"M?U FD/=I,* H|"W$)3WAH@4%;'!{:H"28#BN:/Y61U BD^-85LIC)+|2_ M,R. 67PTZD>E_11"MA|ZZOC\G-WN"+IZ@_=*+:A_C '=RQ* MP0!L3'9-QH&4X89#*G#AI>A04RRCZ6$2#)F)+QW0,?^C_M+4U@R!0D8+OH@4NM+MEP9=,&(6T-@2VN|%C$]8G#:"H1 "_,;R#1\#EB^X6Q;> "8H891?4 T4("N8E MYD6$!L)168AWG[3%]IPE5I4MFP\8KL.M>,9(8\XK]8-%\"3KDPEX0(:.WOY& M?D"YZ4_(_C)43X3L?@-ML"C1N^=@"CBT%.G]|;K?8,B9S23+'<8|)?U_T; L%=MT0AGR'0X)%;(:AZ7TMA^G42_/,\)@H'7(6+6XX84\$/1JS8YU7NA 6%, !E8L'#G((1)4Z+_FC"E%X M!K,A;] X#8.QV\[@!-L,A[J9\=/"5SA@$+P@#IF@/XCEH M%Z3I3!@E-"LB#6IGH?#%%52+PY!5,2<,J3L^ 0!->)F"*90.>TSLO MO?79<.\BDD=?\K|RO)MSU@1JX#59Q^(*F,.4T M,7.I//HT9I-YB(ZO29-GAEG\X7I[DE%FWL'=/Y&!2\,GOSN_@$SOI^_?7^?M\D.JLS&2!GJ;.(#I^9E.*@A85M5+E@ W M8F$'RBCI1#;[G8OI1&+&FO20-DS\CS#%,ET/W(+UL[!4LKR;G-"QV!MAAF5-S MV0#LSCG&G<H;URBT-Y$EGV8L1^@Y-5]HH M!K(DWR0,F0XF*-S8-M,LW?3 .Y3>@'ZLC+ ^6)1MJQ95)VDKY5)MDTFQX5RC,=`9V*(U,K$T>+7^;%4*;8B3[F M AV?1D4Y'@YGV;[#3@D$1DE'HT@T$1T>LL8;IGGO"D@G25=Q,,P2%[&>6^ MIE^-@91-B3&, SO4.B&=Q/[R+XP[$]3OE3O#:(LB#N5[UE+!>]M0I8T^7V/KXM;AT(DO1@9U7(,*F22ID6[<8Z@9(G+0C[:1-/VKP880<1OI_DSH;*M+TOP[>0K.8+.+:.!5D_)YK<=.8*6AM:IQ\D7KF6A+[YF%G"WQI>T296.75(25 M1]WV2U2U2]6BW89Y$55G!0TCT-&>"+BY"V_0)A8:&T,OS,RIV/FS[|B4DJ1N, M+%#\_#W:RXCN/HG?,%"5%9_1#Y]^({!F5M$L#|F,0)FA6KT^^:I.4HM\QES M,/<^#ZZ%>A|>Z,1E2397EQIQX8:QZF1=T[4UHJ0@$C"M^Z/|HL%R%$#H2]M%7ZP\C!0WV'P0M#$93K_;8HL&V(U4#[AENGK-*41T3@CRW!_L-$(W;M(EMG6=,N M"R^@EF1'"#0#TV5IM3MO4O9TBC>&Y,T'6._3Y-EL_"J:70/J;R53O-E_56H[-M,"WUQ+ VBKW-4@^#_N!0LG_LU@[#GDM%&]2!TEW7":X/Q*3B;#ZO TMY7)KV M/;H5WKGOFWGKR)|&>[_R#V>&_N9=?,\P4ID$V!&DNZ[13TH"$ GL,1AG2\'X M 0A0DP)&DQ3XZG_UP;SPO,GNC5&,!1D4G&.YC@R353)@_%KH> OBV?2DS=A M+3U2-WLS3;X^?-F7**;P>[_'+'DGC3K#,=Y+E$K1ZILXN<2K4#Z#9]>,T$X MC(@_)Y6T0?Z6%58%A9RG)8ID$6^8RR#, Z,)$?3+M82#GQV<;%GI^R=EG M%OT)/_*V$>TCOEL9=@QL>=#U;*M^PI42P%$W?7E^UU>#RFA=SQ'B(^Q]AZIZ>5;,@:QDZF6:)B:@X\P<8N>;6D MRRE===M(^0H\U";TLGH,Y=ZP^SR>HRRKG[=:!%DL!Q,($W#PW$F01!@.G-)(S#57$7GL# J(\@G,7]P/!7\?SUH6 M3F56"H.G-)B/EI$5S4,9.]X(KVOY(9Y.!M"BE9B4X_^).8[9EZ6E*6MH5 MA-F: ;$[U5!>79;;?>99;G9IEIN])LOM%.SV?5'CTB<>")SL^&2[90[\L3;! M*@VLL$2C=0.7X"LWQD,"EG:*:59+QSHQ"CNLXH[&[BAFRQK3;"Q::I!&(E&#T<+4\$ MVX5$NV615:)0W_%H.6DT)F3S2VTH;%F^)>NL";-ZJ;20/32A?2B3YT"_'7 M9;CMF3"WA=)=X4^?-B58%)IB4O509%G5)^N_902&;]N03+1/]MP)ZJ-8.#C* M=Y5^E1LI M#,9DF'CD<50I+,U. N?0^LCDRA.*E3M_>#>)O]HD=$Q;CUI59%.V48Q?I_U8M^%##4II_K-=P3IK*6^Z24;N"V %I615(0B++[!GJ*87?5B^.QIGJXW;T29C7R_LMJ[$,+>T M;WSZY/3K+GSU1_%SU>P:FE+ZE=252S]?=RM9[=JZ5>E6ZS_7U?*[!+$H7;;; MMRC#,-JW'*%W1-]Y]RU2"C3,Q(,+/2MIL__BD*VEK6VGA!)3)R$APO> 5J-] MQAJRM"CSLK{1Z3)7%M7.A+Y$N#UBD5YTL=7"3:Q9?H85U&XF'<9,=T++3 M:^Y&JE1_K RMN@ZJG6Y[(Q2%W"_C5D6B*O)WP50?YS$ER^%CE;A1\YCQ\.3BBD=`$\%&OJ]%V>,$=R2^56\4)[%2<4K3K<+!#CR/9\25WGT92[Y' M'2FRXQM5.F&S-T\4J7#(E]*EZA@1&X===*J9HRQN$,^.?78G9YJ*Z)NUAY Q;F#SW++%E5MO!N<,]46YPS*D MEG#'CAYGR]VB>QR50)-_-KA')7.43S\NN=T.!-(U>AS]+0B&T5/@#2OC7>[T M-$E4JBJ#P\|C\'8=K7R0HFC2<;Z-"P.1-4=(K"D&.BC8;C+51H:)?98B2S&%Q MRABA:GEL1NT[?_B(M&99]BE+/)"X#/AVIP<6(O>=3RT+UYAS M1X" C,<+2D7G@$/@: 97\Q"HIAME[8B&M*ZEB@<(;=XM >BEAR'F7 M>#L(]%&L;L^\YCQ\.3RJ[T=>5]EJG9YB&^?+ MH|1U_X/V-MYIL?&3N(G&C=Z1]M1'[\A.W9495:FDZ&,]$,5G'+Q 3LWGU\MDFWH%]XBVK&9KHO9$\IY\& \.B-C01'YY)(28#@YOZ7#S/FTZ/A]90L=-T&F$-MP0!NG@U%P+E(.%A\,?-H?3OTDI$M*EZ_/;^*WD7D+R0K=]MX(3A#-?,1MZS\1NXY>1$TF0-JU+%/&X+CM^VN*9E5.^];.M>TS69:MVM=25+KM&Y?RRV[=O_==GV)-M\=N6YKY9RW*AT"WYP'W+>9/?LSFR*7__.RI,,|>DLNSCE&XA7":YP!D@ZX&WM^JNZ,]"I#NP]3K1"G49'6^%@P5AD>>]F+M=`SKN9X]\VU-MOO\$WG#E+,_G!6XJ!!)T>E:E:14KMG;E.7Y8OB)\YP-F3].!HJ|HN54K:KZV MNO_F&"8C/1UG!YSS+8"7^#G?ACVJ'16CTS,MT5;;TLSDV(KRR,SS-UQG!VSO M18, YA768)Y=U>>U;T|*^JP*E!F0]RSJ4YESMS$Y/LT2]?@^@,I4YQ^08#'[$ M,\IKR:%Y.<83BLL;ANN80L+H_I-S?"R=_IR1?E^6L3H]0U3-8D;1=2B:XR%F MT;70(TY$!$](FV-D)%%V7K_^UREMJG:<6"^_]P W]B3*-AR5525M@SS.T$8;.5H|09_?RM;A1RPPP+1.8@=;YZ,DZ9,C(DWMI+D,F%-3L=HJ)^6+%2>9SF7]D9=I$<8P9QN45),T:Q:V%IS M%\]!#0\Y0^#;(L>]@32!W#:LYNY>9@;:]4X5I%Z,9!:AN-<9#$),?\NER^TG M_2]6QE^7)-_C]/0'@].=/[QC8,J)A7VEQ,8FC)BUPPYGZE"=; H/BV=OE0;< MPSL,(+L!UM$[/5TTE-H!{/-ULTX2CZ@Z\Y-'[?;5.QG)T^&W^_*)T>DIJB]:M]4;/YZMCVAB0R!=NU(E"\.K6*ZMN;50>Y1 3O4<(;9]>GJG*#!VVM+H8M+8]E M6.G|M1_B;?*\GI-4Z8YK2M?$ZB78%A=O..8(FWCO?FS"+O?K%"NZDN7[H9X-7[DKLM2L5M&E=Q2K_JG)!F]K5 MEEZK=A7\TGRMFFK3P=Nj=,5)_J>M55M.R^'1Y(,S49,U:YH$ M;KLMP@M>K^Y18TBY@1RW^C./SLY]UM/1.I[=7FMP]R'WHG/&B\BKL%L*DZ6LB6>AG6:8F+N,!]*,V6DEBNSA)86$YO76B9Y)]E; M&RN*N5(Y%(NLUA57YA3LMZ>" RCS.&P+JHJY+CD4HV1T?W9^[\DIV%Q/5*WB MG$:N40[AN-S"B_P7VYB$D!JGU)PC;*CIX*$7W@C>S*+24OP9?U:&X2U!'AB ME8]X$3XOPC]2Y@ +<.P?W; P3\ 23=WF-?B\!|_G2/(:?)XR>-;D*>OH=>PR:AFBHIU|ZN29*-]O\R!F4-6 +=;G M7EQ*Y+5G/C9FB>\?]]15K =4M:HF!L]NK"T1ALT9YE?IQ]8WS&NPC0::%/A& MJIVLQ9W8?8[6FPG_<'}VK_/UG.*IS#5X7[G3RZ1]-M_>$:BMS UG*BHC>52]JBSG+Y%F>L$Q@^]XB2AG9J>QX3V!//"]0^67=5*8A MB:,!B1#!2[@C>"$_%H#Y-[0YCAN3293VRIFZ**?(IRGQAVZ%U&]+9Y]06[@$^$;I#S\.1\-D? @_\/?%FV"7NF WB M2J16&XFE2%C3N2S$]WW-W4B53G?>?_#,(UUWDP#6\1_6 MV!2U^9" /AZX](/]W{+=0\NS,R7&XS8+3"#^5LY3%4V]!_JQ<-,LXF;1[&*CJCQW-M!K\P/EZC^!IMO?&#!C?E(V*$R(/H^XV:#6.[59A>XV.:A>V M#0ETEJA9%<|ES_)(B ,AZ,<.N+QI-@.%#](^$KBO M=\FF:T.JJWX!J?L4.?> K#KVJX$)U))H26VI-. .'^>:9I7I(;@&DX1E4,7; MPC67X?4]Q<'UTT23!$\B%F4^\V0.BV<.,%,6U#]NYI{(3D(R+AAS/#K]5W M8>CX+R1K8(H3/O# .R*5>1>S>4U1,RLV5N2NW74#NR%M=$!@:,_N%(KE2UU1G M-VYX7@:K-Z3#,N1\I"<2D'K"BE0'1O MW&>PBHS5S*"/201WBJ+[8-)W?69H I*\($I"@P7?O2"P:_%MMD:.Q0F=W'Z M&=Z6P!9,64Y3 CH02RW\%\$"IO(S<[!|OQH%F4[GJZPMZP0RR?:IP\I>;32 M65>H8A<*5=:6 1ZV@N71%_[NP/N$,T'6Z2!V313>B$ SBJGS' =@(PAW+R&A ML0YJ, ""+(QP|8@PJ!* M-*>^*AHF+RZ0[@1?-@/ P>L$Q^H1N#U\ )WDGB+K%O'=[Q9Y$9"%(SB-R=D M?16!*_N@,#M7/@'9'4I] Y_?1!BF%N(0R)4**KIP^NAT^,#HL1,+KXZ7P+K8 M-_!O9PK+^@WB(B;>3/BO:O).7Y)WU@XHOP_\"&E__&,ZV7F!8Z#-^ZV2YB8 M,:!WUPVE[+N>|_\2!1:Z#WRZ01+"($\ OP)0C0[Q5^[TY(M]O,\?ABB/L]_]PR_>R*Q!F,&=CG6%\FIAM%6.Y%I\'F^,.=3,C09:B#[<_*ML$ H/D%X]^;&8V$ F@6S%,CO 9FRHK&(Q@9^-+U2]_MO8 3780^S6E U93Q M//Z8*BQ\))OP3(2UP X3V2VUE0OAS)2/6-//V#A#3\N_O(K3)W|A7I MG7X@;Y6|GX)59,UNR1Q9W$$492">72R]B'&?0$9'<5=X+ME9D+E1D(E35CZ8 MO?Y_ Q]+D+U=!*(+MQ?0\SBB7Z9?^,/!9O/!1'N9":)5)1$71O^KR"'$_I*IOH7] M5BY9ZZDU42A*!+[%2<7=G^G(Q_<"\@5EV^%OG M!63D"SQ>8+3'}6||DR4,[++OPP!NYP=Q"@ A2@X*WC(./"&(J4)M,;P*GP9 M,PN-#$8?^,.4:$ JUQ^$A%JJF)$X&]%RI[=UAO]*HAB%?O>L[*_G5.*L.1&S MM5\9IR&!D%PDC)@FGSC_"D)4-=N=B8*U^MV9"8K"?!Q*?A+6O$TH:BS@JZ@JNJ- M8I]VK+R'?208EI*(@2 $AI&U' Q RGI.F'IP!KVGS_=XS1W(*$^0379-5_@'-MPBCQ0$6 I3\(W3[34:6X.RL%\:5P MIZ5])77"Q,W*89M*.#^6^&@L)7X$[X^OUF<+A5M@9Z'9FM6_9YJJ^%9I7R%[MA>7+<1-CVA8D$LL]'#>F!2L"%[6.9(O4)%%WSW@K-_Z2ODJJMU'X$.XAVV+EWIO!-/*LLM@QTL[KK:J-3N=45'OVYBWH_^\+Z8>(0;86665 M+%O'B9BPC)E87[4 UC;'WH!N'2 GDUX4C"AZA6]!/H+|\FXX=D%TS4$'ZF': MVZO)%K7;^W3?IT,;=4*TF9V>UETW.2]3DJDODC%ZB6$EG@"-004ZZKGPE+ M/DY1X.*,FC>N2L(IFM=PGU1RPO6,,,5T_H4H+_&'F.\U==RY5ENR/]$6 U6+ M=Z/1(4 I6!.O"[Z@%M:NC'88:7KE*V8DQVX,S_):^"]XBXSMA6^S#'6(JG,&XUQ2DP MJ#4*!O(0^6.(?Z/MB2C O\P-FZ?.TXK:!&Z4*-3H=7TFFJG\8*(AA=/Q1><" MP"VBU%RFE>CA[BA^!TS"XQ.58_B" D'.DLX6!.T5DN#UN#@9HZDD#N1CS M<+@+=MB6X[$'&G]|'&4D)U&:RS-<,KK@A0=H>+T%X1!\H+)S,ZO3P^ J*1Z; MY9:7NC<+WR;-B%RO-ZK')>SRN,3ACOAS,0D;?!O=7FMO3K(S?I_$+(X)]E6: MEC%DCN$;,M!@K.<% ZH3G"CM=!K=5]2.+%6FSD\R"%Y\K/S\"OHI=D"!,]:O7A#2DCH]T^JN2]+/8CN@-=WCT7@WSAMC)$6&6K(W"4:-%H8+WV"B?/P]:L#_A,\C0I?C"..DI"Z(R%Y=?%L(A:&"S$> MDHGC^FFV%#T&(PZ>=5$SFIT%9,XV/53*G4?)2B;_1V$P*?-%WT#*4DRB-D.THE6AR;C|A?8|3-_<3MP5]-PEV+WQ/JE@<Q<+7]6R_WM@;/#6+18_[/H>7W^LK%^D5OQ$;,>B-M-5EI GJV"MK3"90)-U0AJ#85]<(_%+>X2+,RX,:/C,_"V!!:AA=6QI6OZY#<"?A;*#4Q^MQ/>EA_5GGI>AP[/N011U@"(TJ 2_RM;Q%B)9LOQTD\6QL)N%U&9@ !O2U=+ M3]'F J*ZO#KDF6ET5=1#+A?\2GO3_-F M!\V19B>8(=H\Y" ,3#6>(J6XL%>8UNQPM'IJJMQ'+MIFF%RY*Q@%]0EDC/1*@[XK+9,L,MID3.@("%,=NJR?"AO2%\N&EZR9$# MBD;5"J9T%M\7,+JR7)1_N/'XGAZC@3M;J&&RI6)4TI.*-4P_L[&*>Y0KL?N5M/*5%=*QSRP^N=+}:D?/@DJF2O)\YG6 P5E:5Y_G&*-G:H?GAV>E]=LH@ME?2X=I70%I"F/% M=J,,'S-VFC%CYTP]M2YO710U.' ,.X*N\?.,QVL?_G3W5I0;!IOCR%=OM.MG^>|\S7UH\/2L*\P1>D^\!'}[/#YIQOJ6A1^RF7EG3;X6(:Q-MMAS\G .W%? MM<8XQ|R3O^PBJZJT2>5V

*.1BUM^RXZC7\D'S)B^4;LE]9})}R)X@T[OG;Q(1F;5M#S8 MF7*HT>")T<;&2Y;=MH9+/ 31!'YJGA85<&+C@5!K8@P<(TU@I,$##E8TRQI;Y MC+E$_-0\3:D6YK05#';,]6<9|<1"WA>0=QXZLK!0CIJ|8F.!EB7J9E-1"]X[MC'/PM7/P4=-O;(V66.KU#\8Y!W,.YAR<]IXI(@/KG9ZNBJ!\&6W_.-S!CXY M RO'=;B-3D^31*6Q;J;6->XL!Y%I-]4C4^}+\!,3>J=;>G8SV(P*9=-QBKSM M/$5H\.S'WFOQ*TT_@Y$PV.G02G Q_1V!S<+/:7)^B%=/PV'8#.#!$*[P$X+?`M86-08(TAMA,=TI:A'!7:5#2<$J!X5]H!%&X83$AWY91H!5\K_AL9S^243NN8E M8*1OIBE=$VE?)9V)EYR\^_+'==36$N+2YQ^K#,)%Y_2:%_T%%[MG8"75BA7]:5[M"U@V9(J]==|&HS) M,/%(,-K0:?=+$BQW*<-C D6D'518%[,:VM6_QJ;KT MVC;(9[5JDUY+ZX)&;*S+JZ:TN,MKW?9C;#U@800A1= MV 0D9+KJBkl\X/* MC#AAA1:'O-U:VPX-?I*)X^+>H@@8T9I5RCHQUCXG.5LGYA);BFSQ0JHUM)]# MYW'$1,(01A4=E4L,%],4=5JHSKSP\%-* &>UGG2_B'9X0'N^_Q&O%?"^F17MY@2ITS.449:N,AOSJ)QO@\!+M0W("ZH'GMZ B U@2VJG)HFFVI2CWGT5$64;)KO=S M@,V*>LS'7";@#1^=-H S<@ PQ6AFC>(7WW9@D5\_=%6VU+4["#M FX M4$U3+2DW?:>-QZWKSUHO-PC7"$$N5!P=< 2H)6F@*0P#U"M=-P&=[*A'(+B MX?']3*>>"$EW*%JV(88$U.Q#&UHVU9?T_K&4+(&EDZ&IO2_NM[9.MX2SR$V M)BNL%=A-8;!P\D'/%A^"FA65ZAX.IM,IOX]KG>|CX[G^ /R-"8D_N1& R^(MD!:$A=-72]{0}Y('DH"#C]#.\^?*9;'I#@=Y1N \F4] 2/I,'KB8 Y \H=UH_MU=[9T?+C*+_T_"OE7Z/T)-F2C!U/DMD;I@7'1S\HU62]ZD&I;G55N=H S;4`MI5;7EJI-UES_N6HU=']+B]K\}!U/;ZO,=FSGI><=GOWO,RMLMQ%KVR5Y&XF2 MS;(L/0G=ZV5K#*3,72FVD92/@SCSH"CYEYCZ;9PV5G3YQW=B=LGXZ#U7<_X M OD"^0+Y OD"^0+Y OD"WKWf!3;4,G,"XZA&S!00O\%]NM8A).T@*BVUU"9'NU>3W%]4FIHBJ4ENZO>W)OGR>\]7QP9;I0 W5 0X#M4U1 MMJ26\,'E6B7YUMJ@VB9N% &91<$G,<]HK)#3F*/C_9R,#X$_2(`O_+@R"]B= MGBF)NLH'$%P.?M8(T4/@1Y8Z/<,4%:VV!&USWBOWC"_`MZ*>,2\]J>9Z4*(Q M^^J[&PV(!^86"9*HALS V:\J)LOSL8R7`Z,MEOL!8*1T>I8DPLI;@J+++-=[K M="V_BA*(:J]\JJR^N\;HP=U84&7:HFDVU6KA<'4+#?@LG)FNEXP82K&*(QWOZ^4!]<1*2*A>G.JER<;K3_+8"NR\M MQ?F6#)MV>Y4-ER)/:CD\4IGIUEB<;"YW\GBOR MD\V\2I6D2MS$H]*Q5/NPI1^TN(2IP\\G,3K+RE,73F6;*7TD_45LN3^'(<+;?M";OHA<7[= MT%FIHMX[WYLPB%"MY# %<5BA7]:7+Q,PV?"NE^%8l.TX\FTI\LF`,W8@J8&O^3M0I;:.6>]4IASMC]\'7:OZ3 K86EZDX@#;H4^F_)&OPZ24!@@4Y$5IHH63.4N MF$IP0B(X$2A/SPO>%]<[1Q_D9NEJU4%N*H!4:6B0F!0U9+6A06ZZJESTHDS=M;M^B6D@IO2OKFQ?5S#"Z,Y@#6PAZ$V>E.=5H9BO3%!1U`_&M(QWOZ^4!]<1*2*A>G.JER<;K3_+8"NR\M MQ?F6#)MV>Y4-ER)/:CD\4IGIUEB<;"YW\GJBDE?8;SEW@>0)Q MS^X$8/I WH2?P<3QZT6HR@,^B^,JLRP_[*SY?O^!G&=\H'V_X@]=5@X;O[!5 M.825]I=ENY4,!/]?S 1P[`^16!C!]^S>4FC7ROF6O&GE7GL7=?HB&]M2W5|= MU\,HSY<@?`)A^HGTXR>CD??0BM_)<"57%=GNBKM;,>FE/@PG. M&IPUHKO!(0DDM/T0=;T67A>Z^1\)L DYUUCFEY!FPOO_D/"H(O5-+1,:+456 M/G!>X;OR5KRRPALKG+,(/"RX!,,2/U+G%<,\&.61%1:7R/$6_JP*#^F,C@/<1XZ3QY:Y9H%/RUS5V4WQFR9&]/ZT4G7\"N^`2WX M%=^$%ORJH:.&-H=,_^P^=85G,+VB))R)@O-"_,%,^&]G,OT@/-_T7<_CO1B+M^EH_2^TSKV0)K7M%2^X-O?*1RW*AG%. MST5#H::R;%M-S8XX?:O1&L)7%P!KO<0KFGTAXAMVA$3UY6*,.)Q'MKV1:Q&1,HYA%91$/;0 M)N\VAW_.:>6.51045>H'Z)*366-\#]\" .@5WX06.(IO0@M^=05U>/=!. U" M,)9 ?5C(9KK$EY]5]#2UFFCAKH*VEK21,7@,^\XK&I'W'2MT],5BT.IU5"[MZ&EOP=*!PU5%C.D@LHH9"[N!VAQ=5X.N/>(X.-M8X^AJ*[H.J@8;BX&8S*HR M],:HPBM(O: 3X&[P3G4U4#0G*.])JKV M=SFPY8=1U-@<2FV"4D6C< N6CNUR&!(8A1=QN,?!=6!P5?,L/B1_?WL 'S:@MO6OIF>*B=[!UM80"G<@\3)^\!F&:&H2W(0'KSWTE'W#I-VI7QANNRF0G(G@'L&3EN>'7P/+M M/=>>>)Z[!D)L8-O/=-\(:",DV7X- ?_SWQ9LPV4&514'!%4$YR0 MX)>CP/,"MUQ'NXPDP#5XY!GQP*P>&//F4;D-OO+AXR+7)^^`;WHPS(=2P!`MN85[_>'-'<9CM+^Z$K/!4D&8/CGJN@M?_5'\?(.MMBB/"7O(;>C%. #6(N&K7-KA2'\ASBI/1(P..CM'7HP[MH^;\G^W6SDMI$N"V&X1),ZN+!7B;/=_&\C9=ZYOA"(@P1N,8S>5Z'. M&?/0ABSY\GYL2_W#CL>L_^N2?@)2EX_G* M<0D+XXBB:C9UQ'<&@4'.*M?**JASJVZ68M[`+SFAO"!F&;&H2W(0'KSWTE'W#I-VI7QANNRF0G(G@'L&3EN>'7P/+M M/=>>>)Z[!D)L8-O/=-\(:",DV7X- ?_SWQ9LPV4&514'!%4$YR0 MX)>CP/,"MUQ'NXPDP#5XY!GQP*P>&//F4;D-OO+AXR+7)^^`;WHPS(=2P!`MN85[_>'-'<9CM+^Z$K/!4D&8/CGJN@M?_5'\?(.MMBB/"7O(;>C%. #6(N&K7-KA2'\ASBI/1(P..CM'7HP[MH^;\G^W6SDMI$N"V&X1),ZN+!7B;/=_&\C9=ZYOA"(@P1N,8S>5Z'. M&?/0ABSY\GYL2_W#CL>L_^N2?@)2EX_G* M<0D+XXBB:C9UQ'<&@4'.*M?**JASJVZ68M[`+SFAO"!F&;&H2W(0'KSWTE'W#I-VI7QANNRF0G(G@'L&3EN>'7P/+M M/=>>>)Z[!D)L8-O/=-\(:",DV7X- ?_SWQ9LPV4&514'!%4$YR0 MX)>CP/,"MUQ'NXPDP#5XY!GQP*P>&//F4;D-OO+AXR+7)^^`;WHPS(=2P!`MN85[_>'-'<9CM+^Z$K/!4D&8/CGJN@M?_5'\?(.MMBB/"7O(;>C%. #6(N&K7-KA2'\ASBI/1(P..C M

*T,R'?2(@V/RALY3NKX<[*I2AT%]0K38 4 M,<{?L6$/D"''A_>P7?%4Y[R]0!32I)3K/TF\+;M\7-!{<:(/T5!=;D3UV/?HH MZ&:>"Y2$D:CNE/KD7:8]DI]+-[1W362|>*
<4);)P%F8%9'(,J<\]S=SJ"%8.. MF!*$UH#+1<3H.[;7,B$P$'KK:!VYC@1+JˆJ^_,#F$F MVD=B[BK67R_9SWJQZ+A.KAGW>C,MD ME)-(8,2;.AR-.WPFB]1GLHZ=+Q(/6"\MH5%$SHKAJ?
AE"!#"DK ML4AAIL*3QT6ZPVMJ-L"7(Q%5HTlX^BE#:P!\$,IL1EBX5[)*D%(FK$=(P,74T MK,:+GQ_K$9-E9FCL=94,A3^R'ZZ?Q2T5RQ;SDI:Y[&+>482"WO,"9XQ-Q_E#
M99V<1..X,#"T6<8(C+!&<;J0 MN'YN@55.H]+=@W,;U\%B6W.TU=Y1Y8)2(M5Y"!8>S>R U3B$Z2!L/2NW$?6B M,<4@P]VGL8-5'&W%,Z@R,I&'-
JU,D6DQN:F7[>OY7\+M7E]YPO:[=A0A,I:KH+D1XPW_6$LWW/!4]7T6=XB[C?U<<"FT^4 M96#[P92WX3#HB'BI.,D/==|>LP]UG*FW.WSA5!]\Q@ W3Y@0Y=R^7:&0FZT
MCF5,EXRG<^SL!)YGAW#2^D&6$Y1R^"5=P7O4UST^J(@.\7D<-S)2&XOLPP+IK M48PVC'3H$\-X[%$NL;/Z=$%E [/8* G<'>>=.:OC%D@!D[7*7&)B2F^J,&PC
M<8!\V+NS@*#!+K!HG_E!%"EL_J&@=[I7&L;B7E99D\^\H,)G_E #UVBN'C MPJ@ASD$]?M/$75!U!!IV.SU:U*MIUXQS%]7W*/'Y-UZUSE(#XC>%/7J$YGQG.$#6:+!
Z.DR>)QK'C.X(s,I!C+ M0Z4I>+"MF5QCIZI<[*E,$|%*T^_JYN/M425VI>51-]#}- Z 4S.^4:MCT.W %$A77!,,63;+ FU[M$!5N?3VZ!$))H+")<%@K-YC]64C^W FRJ?!2!)G29-"C$->
_ON,%:4LKB%D M$;+OQ <-<^(*;T"=" ,8&TX^H'&MZ,WY%P*ZG*KN6^XBLDOW+ +-TKW+]R4WZQIOJ%%;|:.84AOG&TJ>-$RDFOR(JN M6(TC|\\HI3%(GU$13E/.8
0P8U2"1>'1W1W,9EC1!&8V)2(KB\)X6J1WKY=, M,06$LS#:- CA ,:#D5VQIIYT&)>.'K%W/L$)ADE.N>0U)V6$,$@>YZNLBOP1-MI2FB$&$Z/-72[%@=[=)FE-!HX LW8+=Q&
OQ"6PD)7]*N0A& .%BOSE.WDYM M$O6#'/HP\T0[.)'T8A&H(61)QQ$&$D1&$_ D*8=!3X<[2^KJ#!=$MBl;D2C
M1'\C70.V-)9@#^C0#92=F>6Q;>R@/WJC@K=Z)5D@GT*IBX5/4O@1\#Q:GAT M3C DX,CD)Z5W>A.?C9+!8%A@ECKL#"/=!5'\@&I-&1\;YPQ[_5S:?&&%9>!G M$7C4.QEETNO&
N!B75X <.}@DE^$'.10JMJ{4.VZT].R7=ZY(/)T8?>K]Y.N1(9O5UC&\4.^WI]?*.##H_PM,1W^N;T MZR%\|6OQ<|4<*HI1^14TE$I_WS64K YUV:HUU.[/=;7\)7Q2YYR4,MH[5$4!
M^;UM!ZS"ST]*.|(GZ9SE#,W#2LK3RZ, P_-TP>H/!:YB M?E@U&&!1:X*Z;!"B?L;$+2%4A4]!1:X%Z(:]+(AK7*-AQ$I/1F^!2;K5)lL*1W54UFL M
6IUA%3MAEQ'B*C6D67'M>A3Y.H!FN7LX'KDD)=^X/C/TXCE8A6"21&[/-MQVQUYN#:T%3"^9R!9#OMRSPU'#(2-# 1$9#_8"9E/A!$5(WZK#C#/:_XP M&
MOY+=;+JIC6MWVHF)W+WOX;E8S*S;_VG'1H!E?MU2^-+)L@3E71+$F\Z&S7 M-.[^7H"_HGM3$^"W,$PC2K+)P<_!WR;PGU_P*|)@/#)$4^/8Y!AO%?:5BHY?
M38!?!O";HCS:51VO95T^LW=@#3)3LYI77^"L+M4>]OM!::Z8J"^47,8 MIP.HJ,")&D"-BJ@9*1PU_M_4'-^44-9I*.&NRWR%%S?=14]>$-P$8'V&CBR"OF2U\'-
I>,=EQNXQ\"+"Y5 M&N0XU,3A+4+/39;.2XR*@^8$23$:C!53M$Y79AO?M9:ZNCBW7<>KZCU1R,35#"2VKK<&;ES,J9|0RF\PG<:@&W*J*I-M]8-,J<'|*[T^^2W2VG%=NV(^ZUV
M;W4Y,]@)U$4A&D3W^P,(BV7@C6NLAN(=#3X 1LP;9W%2CK@!=#LKNA]X&4(-M,BC$XCGT1F-$-YU6>B6THK*(J9Z8%H0K#,Y M;_QN59^SC&MEV']+K9;;_AI5&HP-
331*2H'S+'N,_Q:[*)MB_RT'XFZ7BPS MY"8&Z+YBUG(MXOO]\VE5,B&88'UQCQCYW<2.LN2-6D1-MQ"9=o>)?
O&H7P*N">-5;$9BY'EY+/,J%,X5W"J3)H^J6@ZEC MG0*SAFLG-Y);^>]^M^,DA/_=Y1+3U):ZQ+ K%7-0T4LBU#,5DM2'Q;H-+MC. MT$N<-JV:)?
)V>K)3A)UFQSA[^LV$CT2E=.+&MHZFI=CYBI#16],8^8KBEG ML%]+HXLDZ^L'1$ M1A0_BG)AE"AZ)WQ9+!-:V T=_R2*^6G4()_\X6?)5<3YI',*/[VE%[GJ,XT, M3&.
(FM*6K,C.O^S#>>7F_7AD=7-9EUD^2?@T=8=8QYOV.EB IV<@MK7H\G9DBA M5CN2:,[X BX5'2T*4UB.[?E'%YEFFR#9[R6.7:D1DDAX)ED&#;UF%L_=$(O- MAO2'+(T&%@GSO?
JTGD?38[;O;]J/(2%I<5I6##=-MYG;3UC3UD] N&'6D<>> M6F7JH,5*?T-^+MTP+1-KQP3S?6#[^'?[W8XG:>7.509;Y+:TRGL,:V6^^S&
M_/=Z&KW/V_Z%WW>KJ_QKH_Z*JU_3(M:E24 ?%^]FSQEYYR/00\CDY>U+7 M88-T8\V3'7,M+/[9^0/RP(0SSB&L>3A.< CY0C.P(:Y(U%1:R.5=(@!NGVH M')>(Q@^5:L;!-
,PCF8;UE54;\|-VB)\LZP32')*]QWMC-&YB@>21KF)0U=&ZD MM0\0sLEK>X7'RZINX@[^R;//.J?MF$1GW1J.]9&H6=Q8:2$+T=2"73NP+YQZ MH(.VBRZ_1M;=4[E1]^BM+2Y&TF
LCRQ1K7TOJ(%=:X4X*:80;-9R*:WNLKO$ M"$93D;BNHXZLD2(30S%'FF-9YD33)B-',}>F3AQ#^:I]&5E)$^AC"&GW"9<,/F,;L+'=6/>B& "AZ!78H?Q
M=OQ'$85G(MC3OQ(WQ*+"0MUZ9_(H+W&4[4W]D$0PM2BZQ3>P^D-IK2C[D=S/ M_A&@&,HV@OTJ1/%34D=]I S&1K%QV"\"@8?BEU56*N:3@(3S?T-]"_ F01SX M[C028;^G0^'-
ZJNWM,0UK7!/>SH[:??Q(X]/&_M+=Z\E;+K C"HD^GL81 ?: M-[GBW2-U,+:DX2YO65K"F^;MY&]&UMY:<^_6;O/K_:-/PFCN+M<;_.$%>"[' M/I[+1DIE+G%IMA)VJ;!C
M^D2PS,A<_CQ^%PK4*F1I8#1WS?9IT$O"R Y?LD?MM24C!)Z (3N.0X9%MW-0- MI\DBBC&M+,*?@"L#F 4KNDZ?FQ@8\IH<@7,*?@U7!$/ 7^0F(=Z.LISS^
M'"AO9\+6!HPIV5ZR^C)V%P2_R5$<9E=3YHPJV@6LJF"3!3-N_439ZOMJ!O_M"=871#K>?*H21)2=GNV(4<%!.C2S6&H,'[;2;TE\?I\"Z<7WX2YC.%VH"%L:
M)1[-3,2L1B&F*>]G.E[HZK.CY"Y83%R?ON$N_[]'$(3(C(0AMHI(\PJK*%:? M.O16="5Y&A.=.Z\J7$RG:K #WX$O]I$=_()&GK$O1-H.?C.ILVQ65Z*5R,1L MIA/L.+]1*
RDRG+4ZZMH5BE&LH&8^0T5[L$V, O4U3*51(3%,XBI' !C%D[MY?3L> A!QW[TW8S!_2U38[7Z9$F/C"BANNZ;(' $3O_LB(18X=#P"GF M]39_BGN!!H=/8@!,O"-
Z_BC2MER,P,:'OW89(3D9^2T,/,_^[+NR_+)#E$3 MB.[#WV Z]|-45R<_8+(DAZ*/<+#?3N,$16%=.6F!DFL.=U7/6ITB0(KGN3N=-M-TV072?&J=2(F?Y,4^2#JM/E2-JAFV-
413HJ4.S<=%"JY-3177PY%&YW%!$5 M*,ZG=AB^X -,CULQ?>7 J83#VPU\\7%CX) (-$#: BBG&]97"ZPF-,"[=&5U M+AOF=T4&!5"N5 #3%G3HAR ^7E9
E0B=>90*$]NCXC:dZ!>lLBLZK(VA99-M2T,!\5H:2M%K M>3L%R55A;<+NJ06]\1*!O45X@<I*Y!7^^2_K:FE6]?TSGH*QY(:<#U03I_$IH
M@';=6O*:/%:I@\;>++AL(93NW%>SJU71C*]*K66]0AWDK"M3:9>Z+F]C^_M";(MS=S:&J~=5+31_N+ M61_^N:ZJS4UJ?!\YWM[MQ-MH72]+W5B'M_QZ#Z-9RN#%8;I.TU/ZP)TYJ>/!
M79!(^$]>A>_!PO8/7&9YP+\\8%XB'KJ^GV]BX8PH%:@_4 M#>)/7X08_;0>4]%LY1])%!<[%0!ZBW.TGE3SU4C;R?I[/!='-AH?R7Q_>5!.M_ED[<L M_9/LK@31ITIT-1FHD
IZ+0;"T+DN*G(Q_.1P_FFH%!WO&MD(M+2V0.N@-ZH5 MY1314W'TJAZT2S?:3[=+J83>P<3>1=%DTI2??P,2NM8IX01S M.!Z5*/9MNL%S7//S/J&FIO=M47X6G"NBY)9O'L,U>
(+W/+.M:,CJVGVT#9N MF";=EQXMD1TF7AO9$]P?N;\?#0_M\40,V7@9VLD:G(#EM@5 M^?F 8M"U$F:^DZEG1Y$[@IZ3^*#2:AWQ%[.E^GV-
3.L,';RH!:ENG';M2%/)HC2Q*KYE!1C,9R5N1ZU8WW M)=*4OX1/ZIR34D9-!!SU*0&B SD.M,*7P$I&"I_P;D2Z.LR%75=GQYR6 [*$ M^I,W\A6OC-
0GRZL!>7\RX7@"7).D5^5]^*6AQX9P+>]Y'#F*G5$T'\2M,M MMXWPG)5X1(>+0P4"?_Y"SS<4_&^^4:M]\/U[(>Q..Q;-O..!9F!/G\>.[(^ZD) M+_SYRS_?D$BFX%:-]H'[.WDB?
E(§+4_C;6M\HEZR@K$_QV7!(.X38CBOM057:E:VF =&\]Z[M-7A+1%3U4Z+UQG&XPS3,.%9[&09OC8BZI*>$X0S3&H>11?8R#"VP*)IZ^]0) M6VMTKG>]_8XMNK.?$IT^5!,JA-
W0;X)42=C &XY%<+#[(;TQU$TR'WF;]@N U-M!V-5-*U3KG]SK+4):X9]'<%F#L3$Z1>WE8&H3F [-,+Z\X++P#H$B2B5= M]IV^?.XMC*OX5>
<<.UN#]CN*V_IFO@5F?/1I(U'6+T3K,*:]14.+AE#4%)C M]|{{2\6=]541-,\)1)S?18_X%]I.ZZ1WY9=''>V M^DRUJ,M91 MB/,G6LEM*/P@9VIY1\=YV\: V.D!*Z,=6JRA\-GU;7|*+Q!N:5-
62NC?'OB M>G3&5R!ZVA.J+52*L/5W;K?TEV^W]*:>C]B^(#64SVHZ]*1389&>QJ27[#U-MW;Y./WK=3C\/(;&C)'SY@5WZ2LIS6']?OJ++_;M6VMTK>]_8XMNK.?$IT^5!,JA-

*{Z08(70&H74^G'I<3FR=)&25)'-MD"@5F9%-W&BTK,%8'4FB(C?5)*NY#;R25X,S+F?<$QFW(A&U_<:%20+C2I(H_ME02#.>-RQN6,>P3CGQ__U229]]74--*
*&2FNJJP#F7<^XKYURE(F,_$=95!F-3 ML^#(;.I)SG49=[-_PU8A^2R,T8X.#MBTX.[^X^]`Q+1A@U)M*K 3W.BA,G+_MJOAA`-@$&PG8\;J/@P#[3[?;GQ(A'%?]'K*70)"$4Q(-*
A=N(UOJ/$B\6=XZ=-M-8QPW&CJ!1%QAIMAGW;0ZXN?K1 =%"'KMTR;&M@(AL2S0^&1!(^AO9R[4UR4 M'8FTJP%2F8$96QO6X@+-Y(>)X36+7KP|<)P&R8"1,;D=Y'QXC^K?
*\'HGJN5/6 M28)M=K _ R>9QJS+1GK/8I2BDW9\%-(F/#$!U\B\FB-M@0 0)!$/+)YJF+:&C M^NTU5BVF/Z6#9>YEHP\O?U\M_197_H U4+6RAL2IJ:-<&?%CLJ9$M*0L'XOI7*
MK1NR]A)_@/B"[W[$\!/65B2 CXO[@/]]E\F3\J8/ZV8KFRR; U*!TT9&MBZ M81DP7^,[.D7WB:PJ-ORR&6A-A9&T?L2>@-Q)XMV/%(K-7A3KBKE%EMQ_Y^$Z M?OQ(;B9
*WS]O![:E,\9WM/=LO$]F4=K7]4'4XKW9^_MS0"W2[#H5+/#P+A^50[WBAAJMG!3O\L'6U*EN%KS+!^_R<05(>9#221*WD6EYG M+UEQ_N@'?U0TJ+D(?*
*^B#L3Z215TJWEW@_'YXZK\47G=_P+\,0+C4)1D791=6S<0f$-(4AU06-K@-A4 64*HJRM+)#7#:=2.YM=;3HR0.EL=5CNI;/:MZ M_19N"_(-H3I-'*DI;@GXZJ&%R?*
*77AQ9VGJ$5*GO4;95#2ZK(,;k$M&2L MJJ98HFJTI8D=AU83T*JX=G01.,F#,O;O'Q@@1DJ+@1< MA!FP2MQH)(ZL'OFC.,2DBIK^%X&6"M"R%%]4ZB#0TMJ011-U@9C [1#W3RY*
*MR3>`5HN@U8(E*P/QB-#%76C6)V&.P_/ 9'_&X3D..VPWZ92"Z)-\F@PEBU-.M-$LZ>W(KO+O0:D&811&8PS4@63:W8=9A#]!OO:D'$0S8OAP2T0Y5#]T?0DEL0*
M\9"MP5C3+5$U3ZZOP'V'!T'D'B^@<{]A@1E:$-1).Q/9Y6VY.%6>'>AU8(8 MC2)C\Q)5E!NK8\.AU09HM2#BH2B#L:$9HFGV*!^20TMN0<1#40?CD62(FG&R MX=%"WZ%JM$|*
*fA*VDUT*QI%%=S7MO9;/=-X4|F(O<)$&Z+DBJ"EI?1(YHE,*L M8V;=UE1F71,;>R77QTE+XIQ\$MZ%&9T9&=5UT35.OE66[/[VSN.YDS]M.HK#MN&4IDVV-$L6-?WZ,.TYFW-*
V+SB[JDSV15C,&(Q5T=2E!F]-M:F0=G5M MWBL6AEY7/EY57 ;[WL8|%:.)%[LW(7F$^=]>F/X[+>(L.!C\B&T25FN>>00^ M=/\T4'-6;1]_Q-+&6/$9@TL$!B9"E$S^C3^/
*V$*1+1=`RMK)XOE^H&T9/1Z M'&%!XGG@ #4>7[9J,)<3%_'E.NK(&BDR,11SI#F694XT;3)R)'-JZL0QI`^9 MYN!:I;H+A:SHCGP-8B+*
*(5MT'US1TQXK9W_H._5?:.NXGJTR>A&4EK16SI*2O M8A9+6G_)G2513@=^H^_[&OC!*
M9M7^],6[RG4KUO8B=M94IBMN"T]B/SKW>5NK(O-)'3HI7C^:K;E3=9)Y M_6A>(_H8D//ZT;R,+Z\?S8'7&E+R^M%=W\176C]Z9=;7;%I^:/)[5WW$_?+R M5@1P,A
PKPIUMM3VXJK28"SKHM&GRV1<_;U ?T560B/HQRZ^LFCVJ8 210W\? MT'\)T:\,QIHDZE/;@!R\/,G5G23VM9PW-9]N@4"30@P"#!,)S*]_GZ4; M:)#@IH4$J9Z:FV.11*/[Z6=?*
*C\4@D;&K+,H1CZ,&XNSTYE'89!-6CH[OC<)?4 MEWZOO83#YRO0IWEXI),E=B=ZXU[JJ4W7G&IO5?O.EUSHP$W>]T7V2,'6/:71; MRS4,YL\+W1\);*AS,DG@-L;NAO:Q6/|>-*
GJB3)Q?'#Q/K+(@P2_')1< W?#^4&SP E-MZPM-9,DG'5O$-:_ J_AU<$XZ|, MXF_1!PG@]Of\OP!X=^=T ^R$T.@/GBH/O ;FIL&I%;K/OG!JB"T0&MWALKID
*M<.18<>JP;*K;>O6N?]EH]Q_=^<"@5&U0:15^MR^0\37!S7^* M8O@SM-P,;B=TYY;XX=XZX418DY+&>$H^]*=T04GXO9?@^U94A"A2^)GJ/:@] MJ *;VZ_>==H[UMP;HW77*
*\=*WC+YOU[EU7=M =[RJTNEC?UI\VU/ZC\@7U^MPQV+Z,AOKH@<#/:LMI]5C1753^W5;H._] 4ACH5>2QJ!/3GS7\L,ID:13K !;_MJ(0T/JKM5)=*5[HQL,+PNH!HF<&-*
_1_"N_A'Q%$ESE]BCNR@;,??UD0C-U;> M\VM$3X4\?8,\IX<|3\5XMM&LL/=ZK]$ZI:$%X_F]2TIV(^PIHQGR=JKEXW M)Q-EE5$!OFFLQI.2MK[MP\|LLM>B8?*
*7VH^.&IA5QC3(NEG2U!+8-_WIN9+)? MO>LW>I?;I]OL&8I.S=/QN,2K/2%%^]6[86/07N8P)@?K@#E8>[K\|#HB7?F/0 M6FYB9O*U=KKN;U'}!_?*
*LZG=*1!RFV>`6ZN83L@(;+8"I^62#]TRK4D.[+YUZ M-SAEGY!Z>Y1@VC74;ZC74.]>O.)/2+Q8!.],;+3ZIDVXH5Y#^O7N)23PA^?>9I>MO>NU7U8G\,6.R=LWKQ[::Y17RR/CF-*
FUS8Q7^B6?"O_6]+ENMW;M<\WH]MH7K7J9>T=.DH_WR70"]PX:"FN\6U M?!R/!=#;'<'$^NJDH@R&>K3(_E/ /:, 1 "'J$U\"-<26"+?? J;QVPIRTFI M9;, WMAC2SCNK37VD>]8?*
*V=.G(JX:6&_[8HG4^>]2+"[=F0YK@M7D]*KY'NI M43VI*-\\B[$!]@_91JU!IYP4O?6G_@_|>4Q9>^E=89V8SBL2W=2TYO7D-&6W2YK1$8V=]KH-7J7)]1S MS)#1*9#1,0FC-M;?*
V,-68]C?L>N+H2-#1X=-<:@5(75>O1NV[$;_51>M[D1K M-[_D4<*SD0C%V$_/E^*%CZGV.@UV4'6P.K#1[;77U%%E!.\}'GZF1%E=Z+&*
*MFH%6HV]OW[&]SI6IA@Q.@PRV!.|],C+HO7!WV1CVMB?b,U1@]*_&-M83H/XE M2(!^<J+5Z+H30P"& /9O'#T!!?1?O6L/&.W'NP>>B),-&3U<2FU\44,N5BM*
*M^0!NCG#VVSH;8+7N4YU"6^4CR)'^HJUA_>#5NWYS^RDOSV%[_,B?MHF;>+% M=PW;&5W;^T%7G)71?(Q^;M#U%-%U1VQ=Y*U/B]-]C'LW:S',O2!JW;"T*UOM*
*M/"NF8FBY68MY'H?#U!5EDHM%D8>O*_J,!6#+I6(8$\"2H1"3SJ<1)9T+3#JW M,,FW\T;YKYF;$^RXG=6SJR&PNL<6L@;+$K/9B-,>R4"N;<<<$(E<3(,W#.Z T- M'. BDH06D*
*&;Q!K'T0+G2+G7+E'K&AKR&W(":)E-Y,A6!+*SG6G1/(&E ' M*RP'@AC\EE9=6GG=(7"%UWD1%[Z@~3F65FZ2%,KO9QI"T693XN.X,FJ.(.MMU-4H_U4+@64JB,I0E<D&[70U?*
*=R\;RY/9>1Q;8[=7\$;A0+ A;?69X M*58MJ>,\:5+VEANU=GSY$\!FHUQP$B)F)^:)I"08@%]:H$#X$8%.5BYCMGQC MF9D28'5^%0.GC_%ML#+QH2P@;H(_7,/$FM868LY!,$P#@3_*
"FV4Y0WZS2UL$A] RR- M4Y"P3>O_@S5ER3P -LE OFHO_Q=B*K_?C;(I*23@70. +2 Q@'(T;QX&%|| M<@(B@>16@#QV R=)_#&HR.KD/"(NI8.A,,[_YD'"^#$H3"/0FE)?)$WK3RP(
M'"R!(,'E.|:|\,&>[+.]4D93!%WD#M&(>B _Z+@GYX3/C8IM>2Q9>$_O2X M)Q57)M"_^P|*T3WNN]'Z#VE&+!!YH'.&&OZ):F0 4 E[S40Y@<N5^H'K*E5{ZU& MZ'P;!9Y\'1*
*RO47\F/FQ:.!+0+[?-JU?@%OP.?.+2N?(?(Y >OA=@W:%8+|MFR;<*Z% %HD@.4KYP!%9":)++AZG_4<$GOQUC&)2QY!+QS313R*8ZAJ!C160 M5(%BXE'Y%_3D*@GP4J$"YL)-)[*
*8=|O4L8I6OW2G&4WJ)" M_D'NY#K\0WLYJ-HRH])<)U!S3/DB$257P2\U#;S$ZMURJC+|=,<=7^YKQUUT M@E?L&9A,L*S;[HU?TCK;MT_Y"7@#6I0?-?ZX;>O,=NIYOL-4BX/_S,*
()LMF0 M>1%<9>EM%/OIO(Z2ZSH$J6KWF>)?]-LZHR^_79T3VTV0'UUF;=A>90;'YP?Q M"6#(.O),?SW!:*2'$%^E9)C#HL [KR_LIXH@>FFM[D#.]/V"L\"%O-CU1)
*M2=2^<@TI%7UG@!MRDQD1.@$*+CS]CN<=[']>+^IU5Z&GDF#SAF$5!*6?O;;-M TFK&_OS\.6#09V-$M_S\9]G-_,PFB7S1'UYWF3U;?%S/ER"XH&T&<*2:4FC*
*M*W#KRH/S^#24#;7D]_#RU#]K^O2\;5UKR!\]:%A+;YXY_N)+F];GO(7-7#AQ MPO);B7K&]T 0$'=T19;*B&NK<@,-W^3,I|@-'*,R(FL-%U-RQ M@8F_04T5)]*
]D;^S,5M]M:K9"@[-W:UGUH[@EX#/P]WO;]QR>47&PNYW-0#F MVJD(U?NJL&'9@D:$%!0'-6JZN8^_DI.:T/ M8+4%T:0B_&8]+KK(ID&Z+HB^2T2/; "<_"_T+$NG42CN+,OWDQ9T
*+XMXI'/ MB_)EFDT)-<[>7_WV[=P"QNZF[%?2K?:K'V;K&(O OLY M1=L1-^"$<|W P\7+;]DN+2GI M6_>W/MC#]^3>\,18Q>A|W<&5CDI+>BW<&:$X_\@6\XC$;B\5V!QPQKISMD_*
M@#&C8$>7 ^+'U8)-^0+?/2DB28O@"EB.7-U"#*S#XI$#1XX:.=D'BG+0.4&; M)=[@2-G@(N=0*! 2QKI.U% 3\B(0NA?PGW]3R@\SW'"8?*
D\=AMHS>H+=UJA_65/AWCJ@Z$YS+S2H0XSG#F,G^IE7O\Z+8NOZ[-M][]=]'4\ 8DGV@57&:PP1T4*#1M1UY^\:*)KG]X7)'WM*2#VO)R\M6OGV7-MEKP'4#$
DI^@VUN@EE|+W>+/)04BCK(4TQX"VOZLV!DK/_]0S;J!KW9^]M$' M;MN;ZNC>8S6L%LQ@WD85B#3NE%KNN+J=".6%%]"REF+>031[E%3[L00?E-B2Y*
M!BC(UBPQGEA,LL")R7B^\T'GREWS2=Z;&"U4"CR_^(8#H8#%)5FUIO<6?NOB M/:!-$=TUK6MF8<6/B--SX@+_@Z"/#OO%V\H#6& 7H'.\CD8$DG)@<!W_%'G3X
*MCK5)UP6J!2@I63W/^7/A;L<]-*U?%Q&$,,D/P:I@ET+I8C@>MY,DJ9%*.DVA[E%?/,_.TC4V=.0L-4'8;A=P6Y2$J%%X!S-)-A$>X:,G M,&KBAZ3Q."FGO,PP$(6A$01^>HNAI^B^*
*81C>3E/)AOK70T0GH<-/W"+C MAW*G91CGH,C9&^O,/E?-O01>$KH2\$88U4S&_!G?(2)9'Z)XS)M; MFL?A$*=K.Z=;&)V+<2>VB1V&;2WU*
*4B/;VUCIKRTTYE1$T>CN<*X\ T0= M6[CUD8:A;_%79QVY&+TA;R\,)_6GRL;=)<'FY23+=%!'GBQS%)I!X)}>77WZP;D+OWR.O/PN@^_^8Z],!& Q,Z__HZ=)M(B#?7 M-W^>*
*_^6G.DW.#%\^@NWTD^L!])+03Y1_O)\T"K=957LI^Q*5C'VJ>,)5@XR,NSXE$WK:CE?J(B|LZNCE'(_"%H"",TOD#E3 MGWP=>0P_*
*N$,_V8")5I#0*G4+C%$B0S!5AK3O'=7*37TL=8%*,LQZ(M8ZT10U>@^]8I_S=|1P/H+8<#K=*3$KJZ+HD:AO&=+%P"DX,!QLO@^BKU$A!K4 M[5?*
OGGP@NTA!=M%H5<++JY|$?#BR2*"(;9RN*42\|AR+1*1O+AP(@K!-(V+ M'WXB?>\ 7U)(21V)K&0Z181YQ.'SHA]?!@W\!{6H;$QP|7J"AJR(])3C- MAX_ZIP2X"\0+NG*
<<%1U^;6X-WSM.=_=ZA^HNT29+%07OOO/>[M*SHKXL0E7H'9RG-2[P!]B)UR[$"IZKF) Q]^Q$U0.X,(MAHS5B;DB\' HR?0 M0X57CL:)B@PFJ-*
*^AA@B8)K3.Y9|'@ATP,Y<$"9.PV9A0GT#*P& P<)BRSTM8H+Q_,*7Y)/ M\U0^F49)QG]51)U-'(A#KG&|\'FG!9SW-+7(<7Z@=O%(GB'==B0W" 7=4PWR M5OCW&E:1]L!:*
(N(5IB30&R;1G8A#&0704 5S9U!5!f7"C?U9GL:K8MEC&8OF M5=C3AA@LA%4,IGN.+/,=4_#\^GVF/5.,'U=LOPZ0P&LA(P4T(0\IR,-_49-\ MHJM/N3>4 I>EZ/P>*
*(498#0SFOSGM!CC;5P'F*KF- 26GEMVZ^&_C1JTT(JFK MW4@!!-KZKVKJ>ZK/L+CAL#GH=7;=%3=HVNWN$TTM&^RXTLH|#9J7O?9CH8I MF()*
*(U:WO'K8KW9N*M3K=3MJ^F:!\D>2$\8..9Y%%!!@DU M01&/QH.KPT@6B;(V7T01T>LP<6)/9LXD$H0RE*Y#K?F3+T|0A?:OGH_GH%_+'-M> """*?N*C7S"W\/H:@*
*P'L>RKAO457F9]XEMIR,1R>5=>Y&8,1,!3QGX@*HS; M/(O_1H#EZ>>W_?$'QY8MRFYA>CR[^?C^G,R(%5!5^$;19NWCO+ 1HXS:YT"P M-K8.3(E0BUY %JE 19/A1BE9=$M-?*
*0E,.$9S!W>!SIQ}XH^8$H04 Z!#1ZY!LB>9L;5_0QD/!W3 [+4CPCX.X,;P@=EI\WI!V(#&2U)!TBC05E M=2C+'UUA*JJ7,-MQHIRV-9(6$(8""EI?!I"^@A,XJ MI4)6(BZ_,BD.@=(*
*(^YN0/4@" T(*L +"2,D&%SH#KT#J8S1XV&UD!B GFJ7 M\BLC=WO%#SX4RP"HR\Z08BEZ0FQ%7*=6(0QOX6NP_WV(" MG,&+*
fD,.ZPLL$.9"SR2;S0"]0,9P+++B;.)O)$M")B&8111S<'M/-+UR%)++)F M- N_A_ :#7!Z ;!,]],Q MR$75;62Q,EDYX(3B3Q(R,B4H(#4M)"]#F4"I\|F^E,[]$DWB<)1]?X4BQ. R0 M;QX/@ZUI>
*LEAPSF'<6D)6<:((ZDL73)-5:BT-L\=B2SPG0N!"N".@$+O&6J ME\0F>9J]6.&]N#LGB/*2.(]H7S@P$8^/_D1=V4;(QIYQ14 M1.>,.]DD)(?@OHL:+?H7H'91K 4Y6S0*9"P12!-U56"-0^)*
(E#FD 7;H-8M ML)%9%@~ $]PB39576U3-%MXN%D#S;:B0K.)-Y%8#A"A7@:G.-9[[;:TD4SDW MF@R>6Q3FW$3NJ,FV6Z!"SAOT3_NM^@A+Q!
*<_(Q5J2@=5'H.N/A1QHD@:D.I.ERA^DDUGDO(3J2L\V7F*M#C0[@<1FM8?80"2*\=_M V0)G'MRs),/W6^HQ|CT09V>)C18K,/G5) L[7:NM/X2+W1\:.[.M5I M=E<36+?,:*
[9!-8[.DV]W>Z?O"K5>%IV94AR#PJ9#72UVH 9]]#DC[6]9\^ M5CW@|F**G7!"N*B-T85-3)T? M//#X7F(E/(W^%%[O,D3R?,X5D'^,8D M]&G(-S)"V'Z829\.G#"*@74V+9QF+*
*<#+XZ8UHE'((OZLP1*S*F91G!Z*8:W=J1HJ M#=20^$ "80HT@F(UE#.L66$"0 *^M5NM7@.)>09X)8WS!!%J$D0C.*> 52*@ M+'"N#7|>I \@ZYX'1+A@1=X)DM0VJ8 M.J 6*X,1L"*
*(B'2$BT@Z 687@^QO $B"N>7 57%> C\':H4SI*$-*eR M=4NR(.8 P!M.T'UNT;ST00:]^4 ,55.Z%QB\ K@[1X:Z;V&>1]H/ M@C(:+0<5SPEZ9UA8H'+XD.5]D_#GJ!*
*M@@#_MS"*8/&<$29@R1++]"(KC$ %F$Z%YP,^(H\:CX6;ZA>?\+$2C0_<._/F M#A/N|V?"?(9M2W,/N#^<:#)'?0F=-A[B\Q2E#?P?'I[X?^8'! F)ZRA+0*T# M*
*:&$\P=62]*151YOW"$*1S,4VO!YX$_5E:+|NSU%V!,| 5\G$A=.2\| 0;! MJ] #2F="'>AS#:I&EODG)0P&&$EQW0D,) ,K?1=]T/FLD*H],V"5Q#[4__A? M 7T8KJS:ND/^G@,&T6OJ_U!"-*
O6GXH Q!UD,U@2$4)>O8DBS\?0^FGP^N M8-"BEL!R#7Z)(BO)7!,=Y!0WO"5MF2O5PQ MOTK9!3 YO)0,O<<{0CUEP4]7"%UKQ-(+&KW3*0/AB$;OK/26'1Y!1RK?%ZDQ M76FR"*
*CA*EQJEU.312BT_LL!f1YDO-WCH"Z)3+H7D-R@!E$ XFH"5B@9K4CB M7P*CO6;B"? Y,Z0S.2_\Q^>4^@"P8"%X"!PI=$596F22G6(JL23'$ -U(KC MZ.[WV'T^BB,'3/@0@"-*
*(+0+EPH-[C)GA?Q'=C=28,54M=);B_@ M<[C*R/UN 3,($\=EOR%NB%XMMW_..L*=$Z ^R|_ WYI!#BS[=:>GNY=+NA$Z M!G&CH*"[Y(K(W7%N-)V28H*;@'|\$*Z8CN"@;0ZF=^J!*?*
\1>M\S @OQ3=0M+M+MYV \%$W=);L GONHFZH?]F#*^.^?\=*@/GH"0[fU&Z#P8OPS/fDRJ6?[M.*0;)6P6R5R$\ANL_+52D\2" 57S+BW52+(IH4O91AGK@>,81R7PMU($47
M^&/:^4PN"OP9:UFI]MKR4/^<&_)U?L5;ML@AC+0"NP23 M)8CNE5>Z?$|\LL4K :21(HW)"3:U>;EJ@6;))-9XKAJGO6,87!$,EK)SPB MNSF#2Z7XA XGRP%^_K;UK0A*
E9_KMIC\F8PI@I%SS8?G^R/?IR?U'KP'P!N) MNK!,X9T/\9>A8$9$N+E$(BD O9@#YM#^\|_*2@7;+,.A1Y'*0UK&75S"@"9 MD+E%O@|(?>#*
(4J2Q\);.&AV@C!!HRLLE@:?>3YG,!M3N#U5I@1XX/i/SD M"7S%@.R+8#GT53#LT(2@1=]e@MA=A"1K!:NJB#RG'$f{[!]0IOA X-!CKR M"UK6\?X"TQ7+|^'!W:VYY]NHG&1QDJ%?
1M[>2B:^A!#WD34E.94+@%$$Y(%_M>"#?,?!5B%T6#$7 H2?9A1*M,'_4UJC9SZ ME.2-7!>..07D.2"/6.+_4"EL),P/ 6EA!^3:G K!WICQ$E\A1)2LL5%LG3:, M\8D0,9KPH8 $\B>"
2D]$EWD.YH6Z%R_455/'BJ-JP(B##CTM""H"/DX\(GO M^Q WK;N_A&_]$LV4JO;^UA=CH&8@\'"%?AZ/03,)-9V+;(P M|TC0*\CGNZJX@A68DF2CO] O*&&,8B*
0BBDO@E8!3,%1>LV0A[B!Q\E8ZFK MH>Q$9^5L!H#X>;8$F!^C((&@A1-=I0#-X>JU[Z/8K"Y$8R_8%@F MI$1$?_ O22U0EY<4Y$(N,P=>X G4C$CJH6><;TNJ@[C MZ44L0Y;7K
A9GAPR A%?B0\WD_JN/W,DN"@T7\(N76",2D%3@#FF1-3- W7 MZ+&V4=H_6A-E)"ZC(9X0TQIH07)=W&W\-5KI!$3T=@-\3,EY(&>1"AC*,P M&W\ RQ+J23=LEBO>_"G$Z<6-
"R+DXFL$ZT6PX=2GI KK>DJ0\LYZQ;E)H#M>_M-M"H[TPY99=4T?^\^8H|_,)>\(@ ($-Y7>C\ZER%(B7)R5^)8 <&)}!E[9/[M1&\'V8Y>/4W$!JHF/K<)R)TKWXB_)U\KNVMEE*
LO^1.HBM;-1=,(-,"NY'LER"(L[")$S,]HJOAC M'PT3/W:S*3(<\A#0>9V$TU;(T8]2UHW]2N[.4T_S($PJTRP?T M605U"FY C(EEH5BBM[JE(^+B/G,) #E1BZ[G9A--M_1S['A@=[XLG?
J4GSJV2>5XZ$-AA HR),[G8UG"E2:.8%IN,2XK)HFJQGI.# MT2V*5!VS,(*SX]%&O0%%0%8@A60ZMV?,ZVLGTHJ;V2):48MWV&YA)@%G"%@=(S MI=15V&7H0X$<5;;^ MGA0Z<)*
*I2LI\CW)*5\RK@6NEN>TYDFM5P?/:J6#^?(7-([&A);E_0&E85$0O M>IY:@@> (@%.M/(>]P^?5RL3!NI#)SM6,%R7;FC>2Y_5;Y%?GR?\(G_X1428 M/$CY)M;\,Z/HQ 9\&W.O2%[EJ-*
,/$KRR6ZH>*%V&*(*I"LPC]]+Z>79I$T;T7 MW8..$<5DU%!^!+UG-@-\Z'>3OQ 4K2##P@G66%!+EUX" MH6()\Z79,<\B@ .L5_;ZW;Z%[#36>!14J^51-.\!*8H>J.*LB2=1;$J.?.$ZZ-X
*MN9@ZWP'=BVQT^7Y><0YHJ|\(?QI0_1E^!R8VAW?(:A5FZW2P=59!D0*14F ME42QT=2/0%/?3;LBC@5H4 M<^2HZ;'UTNWRQJ31.M0K-!/ND0?7.4|**70*A<*
M]8;6"$#5<)!2DIOIN7*S_SND&[3?KF93#V\;L5<^]2>+4$H)@K/8-2'0VU1C.D@N=Y=4K2Q)(4U207N!??'/\>CI=7#14A&L&,LE M.7]CU$KSYT;O_F>%PCKHR/%+"OQ&/4"13U*
95OJO5/49LFEJ9,#F[:\5$A3 M]-\6%2{]'R!Z,V.Y}(ICP_?%/IEE8TH77D,9A_.$IL8Z=&Y4X3!)&?{1))1 M(N1A\X@?09WYMOCA8#"DH8?4$WT'11OMAEY%S=6:5) A]F+L)(_3+$ <,]]B*
*MX & ^HWS7!EAQ(DCX=-]\(SAGS\ALV> L%*5196(%.L7 M&02W#<$+8TUK2)K0 4*VIB2%0-ANU"!5&YX*<(-& V1QY>V(;,8E8'YHIH M+:>DT<5T2WG%&,?*
*4BY)JB%ILBA*H@7"P@HJO.NB>B_(A5 047%3/&W(Q(]" MC0*T9X6Z(7./6(J46XK RWEV!*MF<:M@{(=5)QC/D?I_J:B>@'8DUW]3I675 M0;.P.FI!D(-IP2338E8%%BWZ4I:T7:V8?*
B674>FQM>8O._H=/Q3],TA@?/Q! M<,797G&$M79\3U M72X5EJH@+',+VIC+@#M M/R/=@)PRF.O,:A30(4>E*^!$Q\0.1BDK@.4BV (Z6[,:M?D+Q\<\KKPSCJOU
*MH:061Z:LP#2"RT/=>K<81(7W,E;_"<9%U=!<'%RO G7P3>]2=0M\PX.PG M-7W!E;+'W(H,*IU&-6J$:>Q"04;.F]J',.P[!'^8*XJ%^G5B;H+=50#*
*M]6":!1,R^*,*8I@OFUO4[G,W.L944;?/2QT=*O:E3!WI^EBV#"M0,+_`^4*U M<^%*P=Q'F>&X4(_,_4N*0\IVUZH4S>4OF/.GHM$NTR3>8YDAE>-"K] M5!P-]@9N -*
WH+FK29"%(!DH;=&?RM0-2FF6+Z%M+!552TU9YD9K[%?"]L(H MUTECR2/9*)M0>(0(VX[$LL-$?ER9&D%'UI.!$\KTI=?71X0!/,1<'$=Q&3)X MIO3/$F_E2H6D@$KQ:*
*{[V'!DC_*M?;E57H$U5AR;C(JN;BTSZ2+1TJN+>43^L M0!HM@5[FT;&O0*W >9N!KS<>4XA&/$F3\IBP1.]3D2R49;(QSNLC8_/CQ160 MO6*J[,!=V6)\J?D2*
S]G^]3>D\JPWSV%'_587)-TI!N :X3D@E_.!C$K>/ M4J V\|ND&B0\XWX7UWDIA?5]_8"N\AO5K\PN_]A.FZN.0.6*Y/(Z2Z.)*/P)-S-, M'HN3\Z:U6.2U?*
%06ID]2Y E5N-FA!\V\@8K.1>H0+G<:P%O)ZC)KE(SM=F\ M?!EKFD;;;=IY'FE?%4B)}GU2N\1OKS#]?F&:ADL>1F?'6W*OZ&?M7M&N??T, MRX+_.SF1,,>C5S NI<|L8?*
*34RH"O[NV+#.2" 4'8%*JI-\K-AZT0*BM.7_1[< M-7XDPV3\8TPY7AUXH3Q6[KR4&HNJ:J"R4QWFOUS76BYQ6Y-J^Y:0 * :X%"Y MNOT<*$PF>5\/V-PWK6S^O9X=>UX D)/R-724K?*
*HX5%V@"M5>40-EX#EA56HL M1@R5_E.HB(&/5,V1B-!R8SG%>CU^HV;>(&6KIVNN7""E!*MW7SCVA,R:AH_!&#)#IR.@%PKUC*@W!$2V/H'PX MUXK.Q$7;<.:?*
@707;2P,U#]H#QFO/R036#/E%O*!2WAJDJS>=7HFR>IQ3>AS M[G:T';QE$^2Z;7L%2UYL;_@\|27K>RGP|5$,9&{BB\19N"M.%JA%4 MT9*TN"'"*

*<0@(;O[8*YT,:S$WRV;BEW7B,IY6U"]1=BTP4;8Q0PD%1]0;7N-MM*N\>S]7_1'>7\ O*"!DG=U$[Y-S2;GYN> Q,@.FFHS0PB>\ 7@1ULF>J//15_7(,KT$()T M:F%J+O:MP(:*

f,>7!SN#5[G>*\G"4"P\GP9T0#)VM?=J#NKFE-K?/K&-Q]&>R MWVFGU$I"H%]'V;X.,"F/,@4=*KV &Y3!*1ZLV+%5F_I1)0R^T ME@W*&&?+S;@PE7S.3@EJ#$].%QDRZG4NJ-*

:D,.G#3')7<(%VBK%AQ]XZ;Z4]KQQG8=Y$=?=88*"?]SRO<[E\+)MBWY[<-GUAL//J-L= M77]M@3OH",._?^A^[U7EU*%*KEDGO8YDKI8VQ^)BD/(_C2"(D&67]2C^1J_N)

MBJ2NI!@0%J*=*+ "1H"B+ES_#@?4U!=YP+IAV"M^B+ES_#@?4U!=OU+R0U=86SDZ[5RD7B;-5&2*-A,.192M'.$#__*/&UBD%!W(8T[*'' &2SL>,5X

M)NZ*FF9P4DF2D'ZEPI>4*36PX;,^#H^K4N(:LT4]'R<)<(=_F5F]MECX>R7#KH?3=XM1,@5NK1PF MOJ95*(KU,@&/OAF2R"61S'VNF8D M9<6,97T0$D5;#"?"?

+BY YQ;36_1^Z^:5H9R=ZURB8%:U8NJ7!_1KT>&W3-. M"#F Y%XYWFQ!:CW"N+FLF7&S=CI+75SEJ[9.?+6.@EX;KI60!&8KB>PM4L'Q MH^7QIV]D%OWBX+ \U"0K20M?

O/O&;_0V(GV+O?\@;-2M%1"DZUQ.HX, DT!%59UJ0:E5UFFS#7D6'EGNU8%D)'D M81FD^:PTU%,:S5L*<CEI[2:D;RM;ZM)0&@4P_GMD9O-_M/+(_,#%1D

+=*Y\'@K22V=?;MYM=S?1RV=(O @:@_"4"A>IDWYQA ,0=!/R95+ U@IRR'/3-" 1GD4:NBZ#.OE M(W>6YY"#?"KO K_%>C\0?V"+NFGN,M;09A76+ %01HGRN\A_L |^0/9*T$- M5Z>

<"C:.T,5;L74=-'T'_8*_ <;=9;+SH)K#M+A'NHQB5+,^$I[[Q%%6A4-8"C MS$[^\OT !@'ZS8L!\CK&R?=NK5@9+KZ.BU^`J@$X52>46),?J@;57"P3T$\J M6/.]SD)XD,)]M.+"9?

(_!YY7X(3/5(7U#F.) 8MOS1,E5*)3CI%.R9&#MKA1/(#(1/$='9L'DBZKN6YC:X7D:3UC:M1PR@5M%T4%.

M,DGOC6(1#"+ZJA?0$>Q^A5!DY;U+NSBM(W&FDGY8KG(MORXZ$,S<[!%,9L M.=Q52SD62PRCA<[Q^F1)KE^":,42NWD)N$=9E(9!S#K(1%/>0O%R-4\3IV&1] MZVPSGZ'-

K1*2O#F#W)HZ':WEX.!PG_M)IC1R;X4(48MH8DK"(ZE>]7!/M[+\ M6*OOY(%'S%,3? @-A6GE8.]%\>/,6?8EJNP-%O M/O5$1D<&\)1 P'Y6*9?'3%%>G?+H\[S5O!E W9_&&O.J-CHGG)-

'WL-M1[*\Z MG+W5V,9#$"F\>(%(V\U>!X]> -+:4,)XW\L.4<6#)XRCP(^+0B2BK4MNK1WFC M_J4U>5QK%6UYM8&O-GA"@"0^_HTEER+V%[CV*!?5.@6\KEDMZ%XYN]AB$.

<0D;"'E M(]2_T&$8=2SVKK#9V&*GC6254'3WIG[7SVG621^%%1+FX9<\2L]SKA"125/Z MKTI-U4,QB5)LG\ YB9FLT) 8MZ#'SHZU7HYE3TFF\RC\8%[*@;\SS&QU\NZ0 M.1B\&

*(OBRR!5 M,'Q,0Z"<$E)S2=>%N-TB&RZ3D=Y05&(_M%& M(>]1;O"-<'&'1 ,R8OXMHZ(*;V)@)5C=$#BS1+Q1_WCK^3 ^] M+0=A&,I

XI0M)'"%*P.6OY04,A\TNS;"\=QK#_WG]QO?)ZFG"0?RU_WNTV.UV[M\JM6I_KS54O9=G,X&.RTU.K/>YV>V=3>-S6L_DHM]2_"+,8NP%^D@_]XU7E5 M[N4S#;-

W^+Z,LP:DM7^7"1"]U-LA.NPF1F">W!/S.V.M;)^P M@+46_>^P?NB[E$2]B+VI'+1E/1-W?H*@OGI4P?0#D0>X\B>R&ZW+=O.R6MH[M!#^W/N4.=+7P.ITN#6;5&+-.:W6;,8);!K"

*<^46_0[!XM6A4;_&]ROQ++%ZG(C MAY ?^SS?3\]AA-1=G;O^LMKZW.VPM<;=[F6G:>^(OVLN]#G8R39VR2E=2;?7 MVEO,%?RO-

JNJ;%L\/2X\+33ZS[4QC9X;O!T7WC:MYN=$\32D_01V0^\ MJ9>BKCXL4GV <_ZN=:.9_=*Q:H\,.7*X799AUO6MJU'-%#K,&QXQ7IVGB'$*"'+V)4W>% M[H7$P>U&9S#8F:.8&-

]S)I&U R8H5Z7FND-=W:.FRMYYBLQL? 3[PP2;0$P&FIE:Y(B6710]=QJ#7>F@5CR$%0PJG M0P]7W=:.B:HG00BGZ5%[8+++<,>OU_Z(F8EJ+LM6-U_(OGWVSU.!V:3!.DHVH

M9W(.6>,@P^G%LK?B+/9Q2A(V*LP$]4Q6_22U3L2)UO!8=D;'?W(;2=DY4+7Z MA.="<>\$BIT?<8!S,959WX0EIP+F&Y8[4V852]'[\V+GKHCl\=;SZI#.J![IPDDWK*BEV14VR

MB[?*WZQ[?K&):S:C1HZ-`L:>F'+S=4^=K 1UFD&"I]=?6_U",&C@R4&S"%*X M,.R>+,C1!VH$+\>B<--'=;+EWHVUP>/W$JG@&*,,FT\F@#()C4(!T.P<8 K<

MUU7]8E5KXS/D04:T.4=< D!@/R_F61V[86%_(.!1 .GK?G-HC;BIQ5(#X]=V MLZV^1#"!47CAXJL"GED#B(:=,*=^*F0D;9HUWF/0X/5!/)'NB$NK*P0Q,)W,T3>68EI63-]YFL.D?U#

(=KJBJF?9 MJ?"\6-5M_21[G>Z[P_>K=Y;$PI5(V)#W@:"MP*X&MCE&1]IN;[2]SW>/(CH$ M86K9;9D)UN NOL4=>L3K(Q5HKC5U)N5I#U/GKRC6AI<4%Z].LG9#LMLTC]HC

M^9'/7=IVB/#R<+3|SQ2?DB!! L5&N![C+<)D&]9SIV,37RGR5,lO&K)!_R*J M]"*:"C42@2_DF!3YTBU?XL,@]6BFP!U)9)V>D6U(Q&AP3W+(@#"1,]"4<-6G+ MX^E=S4E]&3B#G-#

*#1A@A-MZVQ@MVD>.7M9CPFP"XURJT<0S\D\=X2!]9"QKX<9?%TY]K4.,#PB-JRT6A(K M)24VGU6T&QL@;NYHTR)H-!7S.S),QGZ"0RJPYZ%U[!:M C83H-2,YS-%.2\" M3>8>N&

(]%!T"F>/&$0YO+ GS>QO&M/-9P8+.1HMA[""}T+Q@]"HQ #8=I'2B$GT MC@\P=%.E(8"Z$3N@2XOON?2G>6MP2*IARJ71(6)4WO=,:^E@@6RM!R18"C*.M+0?

G.H+^G4CUH'H^LX,PUB2*&2[^)%UJ 8\CERZUFORUHN_3@+\F0S.+XHY MF2D 1]K;WFQ]VTV9*0!)\C,%X$0N\H4=_<40])D"8*8 F"D FP!BI@"8*0!F M"H"9

K!S.OMI9*Q5':R.>3R#UC%W$35X55N\:O>/N-;(X%5=|>]LW6UVSH\0 MI4ZR?.ULSU=A*M>>Z[1?1(P;M3/AN==Z,/E!5>3'EK#=>UE=WDS>_HHJC%UU

M88,&Q_LSC+B&OVVKO39;G0&PR.>6& PJ[ZW8U>]TCKA/CL&LNF^6_8"F MZ_7!]Y,TS'7JB8<.TG%W/_F/D(M).HE$ LKC*P@"B ^5KQMRK"7(7!SJ ,:/V_MW&1 MHS0!?

?,^GY!5=-OG.#>F2=(SS!I G$N0&[70U=Q@!KR@5*)WA9\X+%5>CNR M@;"TP6/@ TX<8IX11U;B'4FUT|_<1<64"AU] M 8S9U+:,,]5"]"93*G0B%_G"COYB"-24"IE2(5,JM D@IE3(E

J94B%3*F3" M_+4.\W>[;9, ^*]HHK6 M1^,SF%57S!KV!CL/]3-X9?!]TXDZ[6/V:?)RDA=HY1"&3L5"-A6HLU!.W4-> ' M3E[.W>W70EV]'U$_7YO$>Z ,9X[S!Z

5.1QO.5$<"QHF(A0QS5M93.@.<4!4 ML#1/4F8_"SFS]Q@;63G>4HWYZ-P/"=;]HWY(%A/W5U[&G];L+GT=$TE7!5H[$;/!5ACAZY1;.6HS;+]E M/%3:.^]H+^.6,E-> XG]E]Z<^SY@+_.T[2*4;.

<1%&%"X/4:V"G1[>H/#STJD M1:MC"9(?9FKV)-<<\.3)\O+)K3_CN@5\"!&$&>PKATW>R25"+\Y?@@LAD;> MX0%ON'C*%"0<:Yj]V=2VFS(%":8@X:0N\H4=_<40]F"E(

4)IB!A$T!.08(I M2# %":8@X6G#9.,Y_3]_ZIWA=)_+BH#7+D<]C?!_U<'J&$JQ6[V=$!2?H]?9 MT_3V,GA56[RR[9UG.AF\,GBUZ41GO5U&[!0'H[9^5#JV9IAGO?:U>16USE'9*

MR:JC#<O(S[M.\DG:GN/ZS;G0&PR.>6& PJ[ZW8U>]TCKA/CL&LNF^6_8"F MZ_7!]Y,TS'7JB8

*Y[]G=U%N-U&?LY+=M.U@/G/S6]\Y\ M%0^YA2O&^1>Z65'Q.VEHKI;2FO;<42Q@-ZWY+>*3N>^GNV_%MC7';^YZAF<:*

*MZPT&=LK>J7BI)\9.%M0S#/!M/5KF_E,GU/RDKP>]EIIXH!(-BBCK%,[J<]#3:MG;_A8.03K9724YPP'XOS4-X60H.Z/*K3+/@-BG#M$F@XU"$3H.,<)%S*].7E*

M#C!3+N!8W9+,WU=FA8P\4DHBJ?_+WM!HEL;FS=7@,@OO^/YA&E9FO1X($/_M>V_:W$;29(O^%5C-S)V2&<@6J;6DKKEEQE.I>CBOMBNI,!G[!"R!#)!92F2B

M,Y&DT+_^A1!WC_!0{S!FA-+!E\W_L'#ER$;(TF-WL4?#N9=F_%R]3>-H,F7.D3_5-T&.Y.4L=6S<'>H!MZ@P?-2%V1:OWX

M@YM>BL>&AZYA6F$I/WSSXIG4$UY^\^P_QO))A/+!,=SBO&U!)O_N]O[>3',9 M(T%S:'';%KP($V0W/KX_CFE9?R6H&EI%#Q]_T.]P(8G&V\6R("1[FM_??+;W

MZS0O99Q.GOV'U#\U<+G#0.G#<,TAS;,;1]EOW,7;%'NP1X9MW](/X]B>;W5: MV5+1_9B_6]0WU^/T_E[YYJ56;4^I2-FWA#NY1RR$GN[\"EO#(DS69N,)D4%[H M"YQ0X?

>VY>_@$Y(6*[;9'N8\(-%SD^-(^?,Q<(2^G MP6\9,/">/CYY,53"3DI@\M#.'"*PY 2;_QE7>$?[]"D"J[$IZ2?>K16G!$Y MG5\=:,*

(1^Y%Y=^F'JZT5$/%H4J#@>_2UB8U)8S!9#B)EX!M@15X%_;4@X.%HY M;Z>>_L<-LWR94>, 0@9Y€5L*P2$EEO; MX+X@L,+SS>B%.S00G9Y\]4 P#_%--,[M&J%M]$*

?/TBW;]W#L'EC{&..)2PG3MG_0OTF\C,IU91U"'T3WV<2[0:.?(\,V M>E.T!]?9J^^) ,>+|W;N+|&Q#P/X0+P=FD.R21QAG-Z[A":>ZL\BH1"6]@C)(AB2>6=KV?AW

*MQ/'Q*T&Z2B&#IZ?'S_K@2?[=9S6D7V>/[O^X{H$I'Q^?(AG_^BHK MN]")%P_MT8:9.,Z'HWN+HQ?JAM.L:0KTTI O.W+QM6+UHNV\!W]5!/_|CX1 M<1/U'>LX]*

O.\Q<!]+DO7ET[2>WYA333_K#VI;P>7OZET>X'W\BQA?Q M$S_\|FBLN?70+@%Y7_EE[EIR#\$>]\"T./€<=JF=MH68=H SVF0)R551L1

*MSINN=*UVR61')\^^=H_X1{K(R;/<_BH.YUM"8G*0_OH#.[I$?48/>/+RR5.4 M(K7# TU!E./'FEW? :_FO[IPY"RE..!%#COX,A0K=N_/!E<$5/>_N!'_G[3*

*M&O%0N1H#]6N[4VX>NVE&WGYD!QH115I=D4$:(Y101XY>V5|)2;*RJ9_Z*UDI M1:/7'|7 EQ SRO&(5*O]4N&5\L,O3%KF/RBLEM2:,|:4W]8-<(>E@-)N' !# M:Q/?R[P(NB-LX&/A*

Y,P@\'U<"#;N/>G!6ED@IV$S^_%H]?K)P"O#7D;N2M*VI7^VW9RXX/X5&MOH!MP)AWU\Z>)3*1NS?VBL=_ODA*B;3KMYQ_9$TSO/-MYUU%#3_\0G?

*8^7'6QK%5B=]OB;/.38M61+T\%B_D2QC%^?IMK'U+8XV;]0_ MX]EV\HS.MLE]GVW^,=*A>7'\^_F-PJL8>P\)67%RA[<@44M'F\Q!'U%VW/%E M;[<5>B>X7_X# MMHSW+.R?*

2TUY#?Z7UAW3#>^MG_R'[<$G1^F2F$ M%[M)(7SSD%((+Q<# JV?:-B',2I_/7OS3M-;WL5X]]^OWXS.?_]AES<_G;TI M_^7GM86Y8W/W\I9-98ERQUW7Q)/'-

U'"%'C0IZS.OV9R)\#Z>5+3S!,=\SE M_@IW9)3!8Z>_.S.>]),9P8,S\"UIV=C24WB)5YH$5\H0=?FC@@G_>^F95;_MM5_5-P-3;Y!-5%)*0*%(O4GAVN1N$VK1G,1*

*ML5N"B4(B7W-=5"[]W;@74@DM*NJ,G&57=0/#)U\FXL"NS-F[RD854=I2[%?_M%]ETJ8CT)M8ZC?H,"E4&\2O5T6/O%-D4TI4+G<:VP>DP)EO2>AUOV!;>\L0*

*M'Q)Y1}>ZF/6803$&/-9C'RG1%R7S$<,Q>EK_T%,)+!GK+/(^>UFN_(U\UPL? M>C80W]DJ_"F*K-0R6W880I>1U({?S&"@_*$LN%Z5>=4/-,60BWI)V'P_&7%:_MM-*

*AY/#H71L_P(1]E2CL4+1\5O*E^XN;5I/2;/*ZB WM8#(%A_RDB=)U>S_SM/T/T#C Z2+_6KQ3JCD M!2?=.P_!9U$A&_NK+<.AC%H6J@L!C.KJ4) *^^V#L.33^Y@W'XE2DM=WK7+*

M9@40UV8=D_'7_2QT+5/R6CT1\KR3SF+_(^PU%8;,LZS:5,[!W_5\V(Z\X]9A/X+YB!]F_?>++:U=S"DH\LE#UN PY-)O M]! W18B'!?&IU@SJ&878>%&'BC MW])2AC-9%L!N$'9J"MT=*

<(\Q>FD"9K^%7CMN_!P3^,W@3_ .4%G'#66Q]# M:REV# 'XQ@RTUG0\)RX&M$*12GOZV"Z4HH)$K 2;?(IJ$.RD29ZJ%@GOG/_M1?GUTL^NOS=>M1~,G4-*

I,Q9Q,I;+,T+YR;@,]PG];24HL;!/_ITT_;+T+Z'C9B5':F9+$,% M;=:QIESDOY0"4QJVL$"I]X6G:V_E$YXPJPD-_93I4]D(BL(!5^7"'7RB?#6DO M]AUH?S4^G&TL*E:=8$C7G/BRIJ)I?P.[?

B;P>75C;;>1H(H2]{JN;B6[|_MLW%8 7]P!9PC4)EE12EXX]7N0)("]Z[$DL3Z8A0R3N=*14]I\%EU^F*=/&5>8 M$ \U" (\,'_)?*

*[E>X3BF=$A0<4F^WT4Q]=^KW*Q8AB:%1)_P.N@BN+%4#BD& M*;A=]DW[D).?K#MGV=?+[JF M[9R/[J\U?].WLGX3>@./!B2;9M1UT'93:KR9=002H;XZ4(N2>0" S7P7UIZ*

M+5I+@OO-0?QAJC_J5-,vA^'5K"Y35$18'.LYN]PAW3$_R[DWL66]P.9=7H)Z M1[H>],TB2>]5"HU K(@8DQ7&RX6IMY-M%2#(XX";@:,FAKZE-*

*2D]9\^^&.?-NOAASB'DZ4I=]V0L8P'<&8+ M>"/%5_5RM2A$M]JAHY$FD?MBVW$O[^_=,+\IIT)0R1+A-SW*85,\= M+-LR;#V!<^QOP0?;>1;G1MNWFT&'R%OKW+K_@*

MC\&$"U9>S(*X5(QH;V/'>R': 98$<.C6LG+&Y-K[]2ML#M-IQQ4\6E"FT2"M MO-UA'1VJM3M?63\6_^R'((*MJ0O$_^/X[?'MHA%$RF?DZ. ^R2B?#HG4PG8&*

*M3;,%/9=:]B9OQ.F:VTIW'/5%176T9M(Q=<7+_D\QO&6! &G+U!}_NS MF$\V:35N2S4Z>KP",&*8DWRH" !&/A9SUTZ;8N)GD[*5*X==C)W5]*P%V*

ME\#K_,U[\]T!G[9T_RN/\TIEID#::N6"!Z29!,$-FXRDHY!I"B-4?<:H4] M(YZIWTH0Q57[_4 T_TIL\/=(7YW%5[:I-A]6RV=8+3]X:R"\K+;P%,I* ME&::PK%!.-5?6SR?@!7^CP$L\;B?

SF-;,|>;VYDV]>6M,.&W-F&/&N!V]-] M,BQE3RF,D"N.,;;MU&\SQH;2)EZ'6-&?TA]_/Q6HFW?)':A"_<7PPU+C#:/O"HP,2Q^)Q1>160"S3MC;!N[4R5-6(%J9?RSZIDEHK"=^Y\$B;)Y#*

MZP8D5C7,FI[>3=?C#<.<>?>3"U1=- MMKBD+N21R[!]VM&\^#!.R%UB('5\]#6]#BB"BQ^QO=R%V#$1%4I%/.\P/>^73H=.C<24_ RGT"'^_X M-\P7.IVZ!4S?==$K%%EKFB\8O^6)!K,5?

*X^-_/SO[]=&VS,-:S02;P&;GK9?; M,Y]!FM0\@A3R(W?S=A?EL$AV4^N=)(5Z0V6V1]>TH>W@,$6?LJEK&UV\RL\W-MZ>*E?A]HT$U;EY!5]VC-'ZIO_W>V8P=W_],6PRRA+=-Q7@?*

*O!:UV@SN@A9_MOR+Z=W*YZZC8T*N^'JS$ISOMLZ4/99}:HB=H/2R5FE-M ZS"M&\1V>44]&^-1 M$T&&:5OK]I GE.O<&#H=S\|\E^Z'!H$CXI/LQ^\B]VQMI,#QS7B>]A/K(VG4DE*

*N>&&K>)#V$_I/PME0)$(SAXBE[D=+#D+<_B_487A]/"HK!*M+P^E$!PTH.NC6 M,;45DU9YJB;I_W[_>\++*7O[G704O[TDY=!]&;4]D/O=#W$CD?/G'(A]61D? M+W)Y7]+%*

*X]P3"E=3T5H-%#%]DP> 4]SM@6AWK;&?(>2VH(Z2P 2IO0!,V+1W,=]0<4\!".G?4)-)!^WU_4'*OB;BOVV]3\AZUM_(VE'-M9Q)]]A5P!E2O!@*

H4[MPP9P0DP#^S#>1Q:9Y'WY\&BNLR8_*NOZ/:+ZB WM MU4P&)^T<+B>=:.VE/&+CI"!+}DD))DR.^Z'$@N:7G#B9BQ?B^Y,%$TE+IK/ MJ6N AFHOO91,$@[N^4GBGYR*

[QX]OI\-;"K7%7W_L7(@PQ8.B#?P,) M)O@O%ZY>U)1RF]!0&XX#MPGR'+X+ZE]M%/IM"@H,1Q?>8OP0!%.-V80'2\ MMC]7-,TJZJ,$OH#ZIWA$F4MI&%M3]M9

*UEO6HC4PXXWSH8UE+O.F6=SME,R# MB"/]=KFH*R>":>;]B=C3/R'P:SG;^>TO$4](§!1?TOY79ZOZVR%9"AD9'DW?Q*

M20S.FW@F%EF9^^+!AA=%1"&8\C%UL7/IN4D{)=N,.L8\W_5%19_3H X[QZ<% M6=MBN012I5HV?I/?=V@XO,W.U2M()S,]4A8DRM!R;_' (DO:9&(ZQ($]VZ6*

M35:.@HB)[ )X=!;\%.HWW!3^DN=!\KYL:VF;O8S@T9G.8Q.%6P:3U(>8BF6(M5M5"Z45B(W@YZT#5P1S!9GPB%]Y@GQ370.WTF#%(C4Q6MQD X2@F/=(]$[.(MECV2?*

*$2&9PI_$!R/V%-J0FC+ND8-;CIK,DLKVZF$+9Y0:AE@%I>.&XQQM'X\ M!98HT&V'"%)*5?"R6-A"!),MITF6C>]J2N-ZI8@B.1[!0'AS\IBH_0I#V\1& M ?/=(9Y%@T:!P&36FK)2^&H8X-*

*<4/:Q&/^I>>.'K MHHZ-M1V0*RF8E ^@@*OR1W/CEQ$,BM3Y53]*J5+$AR-M4&K?/M9\>!AMQ>ZZ$MC-] M"QX]8FH_AAQS8G===D,,6((GT2712-*

*XZY[&GMK(6CDFB+@=58KX@>'!E&2U4W M%DXD4G#06]T*55<3&G% M#)W00*739HI[(4.9D6).@-)G4,MSK8:* @IKN87R"LA?L5FZ:7B%TK@&HXPM M*

*MY_7W9\9D4U_8]64M*I_QQ27NU/?L@)V1ZQ7OV N35>^9O^O2 M$;3 FP7XNP+))#N=56HG^4P(+AI7VDPZ2:PZV2A_7[XG#K>W]2M_T7/ZG_CB*

*M">YS3=O#/\]W^.3IHM8(,D.^1TL./66>],^YJ+NV)!]0TB)5!"^(]8^I6'P@ M<0C5K5YZ[!Z50Q*_H8/S2E+$@I_E3(K]D-$[CH5QSH]YZX0*IQT>BC&G@*-C M2V9Q>EG7_,59/>W8-*

E4.,(N&@O?%969%8G7RID{D6B\ ZAA!D-;,.0+XY9PH MP]\HSI,.FTGE"$"@M3&WQAV##-]%A.&FS(U<#QLD^L'2W]Z=#4.L6^DC;.Y6 MS]=-

*U6_*K5*MHF>37NS%IGFTH*RZGSQ^IF&0A/PROQ!_W1##J[R2? MVE EV50DH6O<5'K[^VIRDB<6SZ]PRMSZ2_]50RBRBCO.8_J2/N&MB#_W%Y#4 M%VLP<:S6&WBB..?*

*DOT!R.2.F91QY Y77C19.AG.DV WA3%6C)K, ++R&>K=*O MX1U!.,_P@G5=A.?O+50(/] :8[?;QZ"<)C'N!>[>4^>>>BI;5!;-&HG)4|HQX5L(?>>^6S M\)>4_YX\R1E9*\9:F++1-0D1V_BO-*

N-,4RU612G P!UE8=++NYZB@2)ZGA([^ M6#>A0*&K=N#P89_==^5[\?2Z&[!1"QGV.Z(W>1UN(<)*#?DIOQ_'Y#QP*

M_X0=)Y/H:9AFW^]IVFS]U(TFZS[\>BMCQ@@O8VD!R>4+U9_9=!;7.A/]FCP9 M^J7(D$GUIYG&2&2AF+SX4FZT2J^8[@=#NDA[WMM>V'P4)^'HAA Y$-I32-,?Q*F-!+*

*[GQ6Z65/:^FQ_C*VX)BJ9,N!5N/DT@? MQ%A4\RP6D4/QEZ-4G2 T^%2D%_^BS*8XL\-SAT=%6$.(P<&6L-- X20.#Q_MM78F_>0_3[FL<>]TU@:\NE;FM2?L7*

*MY9*Q&U$X<$Q*0^4XZM/2/!>9OL1J:,A(QQ&2%[]KN&DT[UJ9]Z;R5=51G&P MU=>0"(,P8S0OTBAST[MJU 1Y";"@@.O@?]_EL4N2Z+EE(5$/#Q2^E?'--H.!1*N@7U?M*_0I%88AE)*

*M3D:K:F@X0D] \HZY#ZK3E%R";^FM1A#@Y'4 -ODXH\NE<*YUD[/SZ,0 XN9W M\:31DU&&'?_%N7KIUX@+3>Q,$CVS^"E:@+1QT@IFG CWH6#@MW&=<+K2/'-4*

MZ7W4NF&F63D]$'210T#/9+X8?,-D_VB-,5<<<3-E=DGSS)LL[[C/'HI"PYFU(S6E6)"4JT^^^V MFD@..AL&8,IYH9?5[.+4&(+4+502EX:XO4N MZR4B!8%X%L'0)1?4XK%XT>W.K

A<%]TS90=)^2SR+-BATVV?:2MH$8]YZ62$ MEH4$;TW1IG_F5#]FLVMO%E0R;VSN((\[?>ZUE%^#"B3Y"'*7XG68@K*?00Q4$1+ MM5=@>9 $N0VB8TH,?!MM_C+:SN#->32*

*T0X*K[\5]?9-+,9W7VU K^L\L" MT$[6?SOZ6OU[&NRC>G;D_>M'8^6S'R&$)\ ,3,X8\.PC+,%*6TC)6K_#QWRH M8605U8UG,EC@W$,R[Y#37M.*2YE_SC@RU-2ZFQX-*

*-*WGJ/L*BM*N=9ACKX>-(4-QOYLF 6R@XDM+-&MQY+PL#FR4[@Q$P .T! MIWD\ ,U)5@:S[@=E5E*S$[&=(//!LMY5BR"5$5)[$7] M&T;??B0P1@7$UW$Q#Z>8]D4T6.W3'EH?6-*

"U>Q M[?)M, ^5?T?M/&J7;Z9:W!N[C&SA*@H2H4E4.D#/\GE143,/QSRV(31@?U)M-'J5]SF2B+K9WZ((KY>WU8[Q^/PBGG M_W>)&GXLWU*O*NS+VU55+P@*KQ1KB[!M*

*X!#N\;QZ/O,.2;SRJQ ?0*GL*FOX9&(S/$45"\YMJAH@"DS'QLK[,_$_NP> M&WW@9[!"N7P'VDM+ M5/N!8+R4SN36017F)9%[0>\C?0RF/,_^=?-.GK&<]M/-M\]9-NX8&]FOZY-*

_,WS[!"RA",ET6H>G"$C&@XP+3S>MKA92$;+OAR!C5Y3RQ=-M?3LMF\6W^TU>"'81+T1X*1Q0P;A1MQ@W4VO41>SQ!QXC:9#U2**4+$]6EC M)\U&ZE40NK"5=,*

*W;ODA#>GWT-=38#/3),>WB=98/MH37ZS25!171E8T0*I M,>Q$1LXQ;H\E) ^VY]"""C.!S8EH\|5 MR^2@0JD5-.3MI-L^"?D;8KC+,,,H!';,-6L,>]Q\PUZ3[!6W$M? MQ= %|"O085?*

45420QZ(7I/_:4,M<3'F"+V&;$20L\5EK;3;U@#!QF-=6]DT M3Y+L[Z)2NGA\"8=Z+LVRT(W2K/Q5Z*Q=D!3O+=LR5)EYZ3!W_F7!T MA(,O&\V%]8>F*<6\]O#/PB9@^.^^C;8"LW\AJ*

^J,)G|F+PC4L:F$MZ"_Y&{15FOE.]F\.[=0@+>]_X0,+V5TE-72 T:T5|&NHPK=L05,,^QD_11%/'$!ZU!/Z(M;^>48HF8GM/BI-@Y!X?G'$)IHVA>]///WRYX%GX8VE25$;]!+ZSN_ 1+4&[*

*M*__FQ!4T.!5W|8MBUX9),W/AA$"S-(s<'')7@E8XO]?V(F!=* MTI8M88+)/) 1(ECZ3 M>_9:0Z5QJKW1T$NN! B2V!'MS#S04G39'$U91(^:-82M0(HY5L;KM_!S.HH MT-?):W;.E?*

*GOUOI^.HN[-SW:I8*0MIK)RUW(KO_^>1C?SAN7%\;_MEV!23$,/M+9Z/IO>Z_W"'_--&^NP[_W/9.C8_1# MHND%^0%W&Z?Y1.,%LV!7*QG">,Q&=DB3PI*\, \&3NAW.FVGH9(M*

*=\O&FJE M.Y+'F.$_WW[:AP)DI*3$4CF[!T6'U'=@/T-(P3:574+"B?5">!$UN7K_>BD8 M9HOD56^*+O]])MHO'.Y%\:HF6J7/*D*;V;@|-*

*N^A3A#7L#2:BYL%DW,%N#U!,V<73&I*C$+URC'K-*K-^T|/'7V1>+'^FH MG\H>$AR6(8"(O],UC)2'@T=34"H4GZ*X(<@N?[$E^C[73B)C&2BI-.#E?^GZ*

*ME82>)C4/>]K^M^T1O8V^J4WB #+=*5#C]1UQPC0-@"$G/)^QP-24ATW]K&8 MM#:R.!|+7" 1>UBP@-.>^*#L&/N@5I6.(U'2@DFN?W77:,]\+4(-_E 5 MB\8-*

QM%VM2@8C)VN/#1NZRXSK005O,:O!#KT>A"F5,=4[J7@(P1:Z7LP7ZD M3)M17>AB"JBUC#['/H4"_3 :IX_7/BPU\:QU/Z^C0RI:\0<63]CML$?:>CZA[G8R5Q\K]2)DA[/ M\FRAJ*

*3Z==?T5,P+97>K))6Q1LK/& !FO@1)Y 7U+VGQ),3@!0QI645@V/S-M!UR\GD-$??X0?,>KNH$*X*_A2F?39;055'GV05.C[9D$(SL@>W>U3*)T'H0?AT#9[-*

*$0Q+W4=0ISE&2U^[CLM9370K9)=W,/25&#DR[07"8-M%MR8H/OPZ%K@N#*U,]-XL_'V5<.XIT0I[M=%YY7O.Y 0A*;AG"Y<*

M+S4Q+IB[7C">ZW4BR9"6A^L$_)K"LH4=6&%O[I/M,YN1B),-_E\:?!_/1O.72UL=80_*\RX(:TG!(E>'C))_=B']85V?9L M,$)(JR.A*?$//74K)/E+!J{MT7;2NKY5$Q3TA3(NWQ4F23=^7-*

*87P_<:)C*J 36?% M-LIH1[@DF:&G"0_(1E4,#!.0FU%/4B">$Y)W45X(/]&X(B+<3KE(D-8<(]O6D M"_E+ V3<8:0X-N8X>3#VH?]@2],4H:](8B1RDEJY@Z#"QY CSIB%ZO.U8QV0*

*M,#FV%S&JN455#Q"J!DL[J\U2ZEK%(45JON:O)\>5Z5:AP\|[:42-R70Z\M/8 MKKD@W/W1B^>+I*0VP%-9367!W_&#WHT,:|JVZ[I%E#P\(1X"K8N$J.1Z^,P1TBZ+F^K(63%OSL*

MS&D=B+F)5YVVMSXA,#FZ],+\'#ALX9\24ALKJL$IM,XXDAR=F$3U@;U8;(-MA7R4IC2,.CRI(Y.312!O'F'|C$L-7.&]656_G"]>C!{(UOE]O/34'OC&GP)-MS1H,-D'&*

ZMNG3WS>KDO{\1D'PC%I;S4O,@(,3$,#7^"4N)5%H_9^$9V%%H' M4N[FAA[:P?DX",K;;2R>(?V%4XI"E#--CUS&CA0P,"%#85L1GU$ MN1>&@[1+ 4/';;7(1T=,KYGC-

AA0\9AMI_BEY'D4TN$=S4N\$QP3L(M#E3T9W ^X[6X/5TYK.^*NF3"l,UOL%W$GV08U/>@Y*5=$Z&8N XK+,)>H99 M'&6]40>7VRTO+FAU+?69[R1)NUZ\W!<4VK Q M)+!'-D-*

*D=[T1](P!A3<);6_("E,,"N4@H*AA%?.Z+#.U-U?, ,"5"C,ZO* M%R&@[JM606^\)M^#8953?02KM]%ND.3GY%R-$##6B4&&T\(F?8AMW",VM4_^-YENO($N_[%;=E MS>:R'R,,Y+*

*JQP8A^MB)E22KC %/Y/.LLS&K(;1!=BMD-JS@:.MI9G0=S4\R6[\U$%S[TFB-:%).K+X(@4Y4%8VH[6W*_2UV1EXL3OL0IVEOLI^)S,L"OK M(!#;VPQ?2@V>M11-L5:8!*VN-*

*L_F%U38?O;@"|N'O78WYLC 52VFD9DH$@KI MM%!?-PE22IF->PB1M&F3\MF$0>0&SX/-W E.T.C+1W(-3IPRG3CZ@,0PHOD8 MF9*5_ $ 0K6HM=_#E4))Z9Q.>--*

"J828D.5S19$.\IP82C439P$#[.>FL16 M6.9A.7R*:1UZ7 ,' 9@?ZK[W4$ 9C_A]A,]EG$HG#(MAEY"2@@&O.E0WF M0!/?#Y.6C6@]&TN&:R7X#(&%U&C6:(HER99047W&9 M=0*

*,]%?Q8>WX\@Y\/N9M-FWT8-1V:8P;4[V2.HU>$CZ=);,P1_9X_)<7'(+T'3'+7 M=CT27UX-_EN9OPAQ:"V7[((=MNMN^N<0Y"1\8! ^\].A\E]%VW;8;4'M *)O*

*M<'24QZ1BK6QN4.8%$0D_O54|\K "E@! MV?:>$E*SQKKR"E-@NUD=&?0G&\R15J(">,)13-!,@.%[@C@J6C5<|=V]ZVK1->PZG8N]"U_*CZHDNI9"U*

*MEHL@MW;H@W]B2X]DAJ1;2B:8%63EWNO8_7H."OKZH_|.2=$>*80PZN4I: MIE7M!U*S?Y<6/*TI>6>XQH^C,J,5[SIND6:8LX5+I+8?CH=I-*

*MD]5/SDH)#,,=!2Z@!QK,@^7-(J2!IJ&Z2D'R)1.,W$D7_$;,|OQ)L7&0&%?10GRR4/SP-TN4#JVXS"'NYO#PK;!.P. NC*9P M M 2F,*<6;ROZ((*O!=I("PJR82B9!*]3%OTQ)A9"]?-*

HY!EYP9R#0ETFOO'FB MN5M>UOEAUC_EK#,0]2RN7+.2"-LQ*eISQ@E'*L2>(1])=XE2L5]JO&'Z$U119R[Z2=2%23T%8I\/ MGOW.IHK<3./#V(0+;3,_M;2[19W\K#$N?*

1Z.0K68BZ/PXU] $9MK<$M&Y?=: M(776F>=^21BPGL+CW#DC_6Y[=?<231OX-S`],#63/TZI2<]'IV%HB3U! M!=T2X"^T.AAS< U/GI^KXS?\1""8PIW[-R%2(XE+[TU=D-*

*TK\#RLP8,<83TOJ9DTE033#M4 NO MD+8$Q%9:W6I47J8/Q3ID=6$4/V8]+)!$9 M0XD0_C(:O7H088&HNG>I6LHK5:VRJ4=QN(DCF*=4U+M6\SIHHHGVG/28$T*D*

*M7>,6'2_/O;0*OSE:-8T=_K_HLWZCT!K;WUAKEWX),. HF9Zl5%\/RTN,=P_& MX"_5PC$VWQDKZIN>8\3X/MJT_.O*OZQU\YXG0SROLN[R7J-IKXU/&*;#G,>/ M:*SZU^?O'HU:,Q+*

<7/N1"E8>RY!'=HQ.LM\.BTO;O\=&]&^L[5U.H,FGRK+? MB:KD+6$DD\%0J2",:F0C8B_P^LIF2SV+KH46621&Z#, :VXLM@_R#X7+4O$0.:7Q"O$

M2R,L3>QYM&33=]"'0=!),0TO".F'1S^F:CQ?THG M2K9<>K&]!1/RJ:62V6K_Q3!$P11+$CUS3U V!-/1?]??!_UQN^C,3$CU=>U&93LC,R] MZ.EC/8K!4QF4.$OISQ^+XZ?*

M^N,P3.&88U:PJ- >![NOTM,G_.JS.658!"80 M3_JQ,DY:'W&K;D]P%V[-V+.O\CW24R$+8,HX)[.?I/DU31RW<(AA=<;*O49N M9?&>1]\G']&?PWE-\^,D6%;I7^BGB*9$/?

^(TJ>K+Y@F&.,DB&Y%9+Y7].6 M"Z3,6#@F_R%Z #A]P_8=72.P<$ M1*_]-O+R3(>><(U!N XG#^X]KF:NSK/AM6=]8KP/ZQUP2!VXPH78#E-B*?'E)C&8L^!DIEJ#[%EE,W?*

14>WP>2?J:Q=%8,706QDRRDJH> MT6VVC9-96O0D,7HQ&W/AV;.2\)9LK- M%B5R\F'E\],I+66.&8?]DBI$.<.:I3BS-*'+/186L<:3$Q8K,;@E.MPH M='T.;Z1^_&"]ZL

*PXM_93+C0][UCF,ODP';Z2>U7P57&O["&Y!UHL*CT8B. MT-,<5%P2TT+,1%1J.TV=@#CI9R&6 MT/7.2$'3\"!Z,;)>UI,V<;'VD+,/)$BA$9X,X,V9#"I XH46*48J#0D-S:7*

*MX*0@OK#WCK6PP1!!7F98 >$[2NX=DC"]*&IK')2$0?MY<*&<#9$?4HVG_<$0 MSPG"O\261'-J@U$ZL#,?S|:6"MN22R]997F.R4G5;)/"\{6]@"MXF-6&_3.; MR/0+LQR565=-22D|*

*(U'+%ND<.+##_!E&^)O-E_-NS$7@)L/+CB$\D;&@%S M6E?DL[$JK2KHV?YIN7L+)I9Y#Z)!A&@ BZW6XL*V>6H"QIXTC02MT""*

M#AKMP463.%1SD^UJS\%=L+7MH@/IP",$W?33PJ&8_4. !8>H;I6HH1WJ$PC"+TYXRZ,F?>)%JT%4R>E80(OW2^\|LX^@+ M;^ORZF?_2+^6%!&I"ZS?I%

*<)Q2Y>^#0UIX|/GC%)TUHB(9Y@R$&NGXN!YE/W MD4VR=LJX18.N|&-+B3QXZ&EM*2M?PEW5X\T$I=FTS H^06&O7,[*FT1DO432 M6%W^=7}?GR^+44,,%HIJLR/_68*%?32YV-*

OJM2;/+>LPDAP&BNV=>P(7/IH M0K.PILM&CHT2?V'+>5FTEV-?$;<5);F=>X":(J7]GH>Z&0_>G/)2#8=.M62<2;\N2S8M%/.[,\7\)4<*Z$SSFD'Q=6>5RPVCE/5)+%HJ*

M",H/)V%9;HI"D(2X"$(.:'$MF>R+/I:Q2(GKT$H537%< D'UX*]>QW3[PE6KS;[;BQ6"\FI MT,;DIW?1K>?L%,\]X6-9UM>;/",#?QTB?1ET^BDIQ^4TSHD1,VPG0J$:M\Y,GD?

27CE"2UH<)V#MTV@@IP>;R8U>_Y> MOV9N(^&A?,BB\/9VI>S1^LH _W+8K,43%EL_]}5"=BM:^S4|LEG=:)BM 3=)\X/E M!/H)HEY#@]QAW1K:4

*M^6N0>DFQY%MQY7U3CSP.,$EO{^5V/(N]_Y)N&2+:,$-A:[J 8L0YD%8@1-?>W= M5!6EC_+V.FY$,&C[F(L[.W+RJ(,OH/K%PF21'T%0=7*J2"M0!!E3)"?L\ M X%*

(N&A:T&J,=:3$D#XPRG M:\;R+<#QT\O(:EI+0YMU3=Q^W9Q0"^0L@W@>_><+D>H$-]ZLB+G)?<#+*+'+. 1M6L 1 E7O3WH'=R%KFV]=R%KFV]+0 2 5'V)101)2-8^1E!.++Z0*H.-*

)D4^RE>57Z=3 M@V(§+K=/=\"V@PX_@M-Z/YD3#]]RD830<(UL;]Y.,L*$GH15(:T@I_05H,N' MQI=+#+SP (;3H[%=G3AM+PMWY;0]3:F*#H._DU??U/YDF++*,Z1*&!!.?*

3;^PSSNTB4T>1\,Z,GY6U6$%A,U-RKPM-D5^>6'H?\4 M]LM.++*#2_/E@9U[++Z)VK< -+T$"5TK\DOC)?9A;((ZFV$I@5#9B/G_'0)MN MGE5FG\HG#]LIF^EE^%+$4;!V;MJERX :-

*HW>D5&T,66'"%-+EF&@J@,X.R98 MD=8%P#5,MGR(W78Q-V=^_M@\P7NJ>Z"@'7TH'_>V8HL5W;"]8*L1B2KNG;@-2)*"TOX0B45+UR0GLVLI3 M!.-*

*YV'Z[F.+SQ#V,!'S;_1.+"_'4@NLR=WG@=#7P[453,#@?.N1$T4(-94PY M'V9M-T93^U>9R.RB+JR*KP50QPY;,"/OAV2,&@CH;X(E58%%P"I&@Q4I07,9*

*MF%="C99WH7]\06IBMGQDJ;1%E>2P&CYI>C_@5Q/*U36@7O!L:REDQ@X*/[<^_M)#F3&/1:E MKQ97V51XN>1#N7_WJ^7GX>ILA#GUV?,WHC-B-P1Y=-O[\;X@).N+!XUD/>R?M&_;/&\,)"/P7!Z5)&@&F-\"!1)&OJ@22":=(V>A(F=+LO'*55M+.G^(R)46_=H@_$*KS!"^JV3:($K,F^S35W/K'|=OC MD6@6HP]A)K5.Y,LR:,%D%H,TW9@4E1-#^@O/\AYTJN&??+'F/%L5$KQ:4W MNY(?IH.3$&63KO&;#2W%D4_#%E6TZ0%H@1(ZN_,4INDQ\KNK%\1Q^"]JD&-& MZL92@]DRC(5\XDRV%QLK7[X3\DSWP9_4-@\;EEL /> [H\CHY9,`L-^907P=O M,^G[FT<;8%E]_.< AH[NUA7ORG7)TZK6^?=#RQ*<_LP&9CFP0 <%AFA@+$< XB&CSLDF+29(W MI?>ROJM',1*03RIWY(%(2(eW-MP3>R?M'5<$JX#>%W+$^?"=.V=49ZK #\$++F;2L\7M|UHWI"1ZR $U+*:M.4LQY?:+Y(:!IR?]$;HHY^V%MF8UT)3PX|N_2/V|$D M2..LR83)$]VOH<\UZ]BOC2]/I7?9" ;+H99@8H%/\99F+*>.."%2N MCT*H5+MAM@^`"%|529DC+[=H#P<.5;5#D(UOK]F>,D01(Q7R06)(J \5G1ZR"36#Y A\[8WWO+FYA]9]H,9LF\G]:<4H'RL1+G%# MC#1N)70L_6\E2V>=45>E250)F4?$)7MT_TWE>L,*3D:;27_BNR_@CKN#Y)\l:M\?B;V A-*M?)BT)/2J"?<5KDY M)0Q!(&O^E&OWD7_C9F#HBGL*<(ZABO]FK^]NZ9-@&/*0Y 0DU$6-ZNJGK1-MDF;=>35EO}2_1F\Y4IS)*4R8/D%S900EE#7I&BH;+Z.0@1\"=# %3I M,\E" M/MNW!Y1\|-%3HW?$[<_3DI!7MI$>]AX@?30|9RK]Q^D3BWU19J"+Q6.(MW) MN=VA!I9O6#W:&P'Y&Q?)(72]2.1:PD%=:LK?8-J!0T^+!(Q#52U(&-YL@X.I M%E&!'CW@+)"VZW5O3/$=9OZC4\2F;8D]TI7D^T&"(GUC9G9DLK2[ZN;9OI5 MQF$"/WH"P2<9RNB@.+SB=F FG@MM94R&QA1G['2Q'WQ!GCTLLQQAW& =*$R' M3[4'" M[SMSDL"ZU3EOWS/A4PX9(?QI!G:>J;"TXJG]0V@3Z T.AUS%L,4O!FO!G;O'ZM! !0$K/$7HM9M('B1CX#8+YT69ZN.*@U5*!\ MY(`-UCS<:W,)+/=LH)6A-$CK_+{(#$@6D95B TTS0V8!83FS>8 MT!K<>/U|T^V+%(%)&X(E-0KZL=7DHX)%.S;@]9;KW6T.567>"B;?PR(58$Z M9FV:H<9[%;Z?X UNBS'%+&DJ# M9^>)W(0"3]NIP15U1ZO\&;VMZ9Z6'5FZM7 MZJ#X\7EG4+.O+&J622KE&S$OL86&<_X&ZZ8JE=G-PMNPTQAQ<@(0FFC%X]Z;@9793U)"H[A<4MDW\3S]D75!!^^; +PO<@7B3*/D1 M1OP/AH&,,Q.BMZFTAVMK-1R[Z8(E/Z=AYL%&:SIRT,@I*ZZ%EL#"V4A/!*1^ MUP1TS&R@DDK$D(!+=B5F" .AS#VN%$3B/R;X0\5RYVL!,S!0@Y2H5;7Z(<,W M1)\|.QB9+1RH;R[&{2C&5H5&ZCL^7A)96/75*[#/U)-K[MC+O#B9]Y]HWT>H[P6;)QYGPN!#2?Z09)V- ^Q 45&[*M5R9?ZC NT 5WH! MYNF;KN('(#%?:M)N1.Z5.0H;)QVAXT!0]S'GR'ZRJ#/A71A2]HZD+_Z)I[MPU#;O.V1<7U9CWZOB7N=/-"+K%*^>SA$W#23EMUM9=06 ; X&W86L\#E$7>: MG[V2P>*.U-X45HK[@-S@?#XA22T6V4?;XTC M'H]#J]+FQ^-WC IWH.OKG+5%)D29$?*,/>8OKVT$_-B3?H,A\];$P-/UH@2APT*5ZS1>>ZH[M]1OW@GF7V]HOZE6A3>,Z*>%/^-+`3+`6T(\%CZ@!9ED+5BL_I MT#K<>/U|T^V+%(%)&X(E-0KZL=7DHX)%.S;@]9;KW6T.567>"B;?PR(58$Z M9FV:H<9[%;Z?X UNBS'%+&DJ# M9^>)W(0"3]NIP15U1ZO\&;VMZ9Z6'5FZM7 MZJ#X\7EG4+.O+&J622KE&S$OL86&<_X&ZZ8JE=G-P MNPTQAQ<@(0FFC%X]Z;@9793U)"H[A<4MDW\3S]D75!!^^; +PO<@7B3*/D1 M1OP/AH&,,Q.BMZFTAVMK-1R[Z8(E/Z=AYL%&:SIRT,@I*ZZ%EL#"V4A/!*1^ MUP1TS&R @

&I_U)S2..Q^C3VE:MRR(N^R3/X=I'7]O/|VZ MW(.5=3 U!U-S,#4/PM1\O!>W(W-S%QH4\.W[Q M[/49#9AYY\C?_?HY?C*:$VHB<5,F7+$806#..M!#|0_)M2]X^~)K*@7_F'1Z"\G-95 MY9CW#RR$I(&%JT!"=%:UJW:TDVLNB,#QVC%I=MN1[*X$1./%1B2#5M)G&@=*.M:XAA**\K"+A+HF[LA/XF;C_=))]?!DMX M9?=A5&B*H!WRJ[8]31=FRE_FWP>-_O'\4T^ M^\Q;1>,BOGD$2$3A*[K=B.YW=$)"?ECS65SS7[&6SE?^BT 4S]$L*_OUW)O-O$$" BN% ,:@EX7K?;9E?1LL:H\%SE(.MR+I"\GYFA==!-(#M=_(IQX$Y#MP?#BSG.',-'A\%LG&L]"- OX%B5O3*MHH) MVERK{(U\V=R+8AK5@EG9'R/T?@:EHJ#R,9WNF*A>T(N;6>MCZI.."*@AK?[R M3NM[X]5JX0V;]XOBASPCR\$%&^G @NUEBFE$ZS1ACF^8(..?" IT1WP@+3X MF#QX S;,*)*TT^RDH\(-P>%4B8<8Q3>E*)QI\C"IG=XVX07LLE(CLGFEB<37%Z+BSORLLB?+#$& MR*6"?GJK<1"QVB^$X:CX%K3QN-Q 897Z'E/6MVW'/>)!QJW>|S7,$^H5JV: M1I%J,$I*;R8U2@;T5Z6&KMD5 SXS;?YLT((3@M|6>S[GL^2^]WTF3]>FEX[D MU0 FSG3^9L.(^1-"2].K4AV9O)8-,(E]>S+T1L$DN"0 *PN7I-YJ_VK+_XA2 M]:O'.JE;OR-7AKM) [G7AAJ^'8$UJV!XL,9U?ZZM4_2LM0D:T1&KVBM:I> M.<4=4I&EMFA?!66?=E9HV5MZ1VW"@0'!WA@KXB\S1UA3Y;'L_MG(.AASZ%A M3#FLETW=Q"'3]M9UNZ'S'TPGQCP+>8$:8&Q.1 MD%>:E,,O,D6TD.I7_RJJAHI(Z'40Y&S$I.YVKHB .AHM ;0=R-0VK.85B"L M8A:4(*;-\84B^&(.5JF4BV53LZN4&A5J\V>3;H 8-Y,^&P=YQ"./>)P&W,B7 MVBH6R9=:NI@THY1'/(XG[Z*R$'FK*Z2'$D|IQ"T7C#!I>(,!/@$0CT(7G'Q% MA:?(ZFI?],JZ%|&0:5X52|2LYE+:O$DIX:"J*R!#,XH:K=4,<>GL FP8LD$| MQ5=HQ(=X!OM!!2F>@YM/\^L3[],/1^^9_*]E+W\DGL(:,#T[!9BSH^P3\/T&!E,SYR$1V'3IMFE;N0/W<#A]F8+U=E@ MH3KI%DITW9;$F-*/2KH<*QN!5L2Y,4U!I>2&LY;K4_;A'T,7CUP%EUU &[!-M9(C)O9MQ>B,;N7X&[]D) MA?LAC,_TAO5A<)RT'|X?G;LK JWZW0ZR7I4E5\"%]=N.FMSKE01Y>" M!WPVBT, M@Q GJ(!7!W@!OW/S=^2&$\+"+'UDI;+! H=\@=465&K.W_9S$)O=/(%M1?P?: MVTL2LEY//GSK]&'6DM.0%%2TI0ZM?B38Z6P>,F0,P/)!E'G!=6HKZ[-/1>/-MFNI*7(-2]7). ^DVR3WKH3&#WXN),V_RF86,((S$N9A# -B#%R" V(*1X91-_M63]C\@3 %W2W4W+%'(.|_CNIGT9/N_<]0\;AS6HF&%L_$OQS?!+_1Z30C:-? M!/XYCQ7%.4Z2J/T%L@K(T L!5G&DDNX*,#5+B]+2[H0MP#LO.PD5XP<\-.M HQE+;3A+G)z;N9[!AA-L'2$< MLEYH(XC\M*RG2&H/_?+NA"U) M"3[@3(P*T9@+NA"U) M"3[@3(P*T9@+NA"U)+4RY,O@>Y)-[:TEJ*>\HU5A1K;%9G{'#!@S]@-M-B<=WL4$&$B;C:(3K;$K0Z $1\)YMU`'?Y\%(WB03/-RPWGM\"(;VOZ 8J#'@-M,_FP5S*6'4OLR:D5VM]N6_7'-M'P_-=I9L"3B KBW\&@(E40W+ H=SX=) MVR\FH#HM,G03^6@W4[!F;J!0JNZGI9)9.(SDKU[@HRUE8)W,R,^Z,;$7'/>- MS9;7BJF0'#.9;J[!J_7]7M)8M1]%I-C%Z?TH*D@[.2J 9'[79!K?->(!Q;T M?NI.[69R?W M1Y? M7;W=?$@X\'B-8=BZV=]1Z#KGN.VA (/&4V5;R<=="|#[Z.<]*/ MUPP\[6+=O+K=SZ2G7^]GU<8LG+9XY|#&BL9>"M=)I,?C(UVX ((2NMG? 1$\|86L(%SJD68E1UT,* 8)GG@*RF(U'"JQLO:RV!MLG'ZQKHG4EPW;GRZ>$|--T M4H;S@692FJ M6(&J9D0+N!J6V"A|<127$)K61\QO'K_|)O^,9O4S?D..[$&R MR?L< KA09W1QCB:K CQAMEQS3K|OOL-_"|"&VK3,39!MA?QP8W_;*6X8&RP> M?]7$[U^!O3Z_78|3T?!SS?3;%'DH/(-0C!:6IL&'6O*Y,,T]R[584NMMF2U@ M|DDMMB),U\}]>>>*QE[UL#$C%RP!-+6U?B+4D*)5@LIN$FZ=2!\|,3N MW=*MT@"2QYQLR,!MJ6<1>;T'IR28DID*R6?6O$9/-R/IDY.{)>B^5RP31&0E)A9(CC5IB^[- K3P#JDX[=C0\/W9E63C/!.ZVNX7\6/PYB9!%E4F!Y MIA'KXFMOJ\7854G>EMB|^MUSF/IT%+HM19I*HV&:A:AZGN;G4QKGFZ]A^H6& M&6B,N5!07E1FQ- 8DP$E,#^K8XF56"7WK0R*K;)#&*A0\L?:,5T\D4[<;S9TE=FM|+7RYLQ$NUAHF9B@R M,2"U(GVLZ(L/(D/1P@]=D,G4.O>S+K8^>=?;LV-51KFY9!JO@EH*9'%]?? MA@EGQY-1'F"@@3[N:)DK25K92@B.AN^:"S39:)GGSL)O-'URKMMRH\'L-V/#~M_;W""M\/1^1SS@%M5LB%".D0+*GH$;R-"RMK6Z^)2A=SQD88EE+T<;E@^ZW+/-MTK)BN.X"A%5USU) f\#%X,"6SS%JGEJ!!N#{)/F:,&AK8XV,"VU0QUNN -8 M:ADQ\ 2ZU#VH7&]_82@@4\RF"%Y4:%/:VNX?5+'W1.N.TEV1+UF6R26.V<$ M6:%0#X>H'.LR\@&LM3$;S;QNO]^\CUVQ;>>7I+V,@G!,=:MXVR<4IR,E'H/3[.$0/Z+AZ2>\FP3TNUU^^P3*9X#1IG[#|/ MI'D.!R'Z<4'FOW9{Y,4BBV!.4^7/L44&S/B,T7RT;2.$C<<%>C?,:S M]FC&7][1'3]_BX;M)%#!)K@%S00%I5_DQ_!47C1\1G\'<#W2=-WQ;E]R?9% M."K(N>:28G0R)/7\EFX1SYCD? "H'CAT% MD,IGLL5"!8@Y>*,]*[YG>45,/ID#/K"QT=+JFXIO7;^TV0\N8OE.B>>3%C2 MJ3CP.2 H$6MW.1; N&P39S9HWSHN>!1,GW1]7RG51H+MSQW>,8Q*"ED\&.(* MA"="PL <4DY&!!F=:W[^ZEG]M-L%,H5(T<\4AB.@M*%6I0DHF(%F,'3,^@X#C MT0M"\3E7N*6\'QP4VG*6.SPXZ[W2Q5E?G:E0;T'&\NM0@<<@IL* HPM6MCU<_ MIF>%> M"]LY>3,ZS VQD M?=:J@\|I\8BE)"=[9VET"+;DPW@-F&XW2T7%L[N=M7*FV[=C?4\ Z_++L0IHN M3J9A/ MI>>9P\=-RZ>?_=SZ;+_O_7(I;ZIEU;82R5L7FG;@;8>^3L3XH>3L3^%[H^B;,OKX? M37[.^8O^+10F1N1/-RXS'T*OK;HP>LX&=<[XC:1>1W]@:QKO7A0-*HT 9%\'K(%& M2X&_5$FSUH;_"3@=CG2K V?9%'6Y7=2QJL7,"\V.518,B5(HI@-OWGNY\!#Z MY-JWXN&*'F.'DWHWQ_G6@FE25L*@N.S.*6\)9DA8NY$Z87.AS=;Z$%.G^=2] M;=ITQ;N1;R+CO8E\]A(K7&N>R)F1 M)=+:8G.2UQF&"(**%3"HI215"R*U/&[7]#K,_>\3\X51SF1YX? ^7U\=_??SSZ MU#WNRK7G[Z?O935@VFW?U^#/5(JWX,T:,]<_&,&^?,)7F+4371]?0ZH6DG8_) LNU>4T4&9RW]4*G MC5GI9%/SWB_]M'H=<>,)@[:)U#7W1)8&(FEY$.C;<$:/? S^?OIV>6N'^2D)72!'M$!US@\|.HS MW]HH1^7]!9-BT1'(]f8UBJK8>@0Y1\SQ#4&B@H#;%`M;Z:Q>=.#V$U]6'WWCYWP C*^WW&1,.OJ7DPR ZG[Q, M!8QE(CV(-D";@:RGL;;*4 QK'@.N@VL=$MD|GG#»!XN:RZM#@]GT8?\,Q_5$= MLRU.U.)X@*]V/TZ$*Z_](3'&)355K2^8_4DH'6XXWYX[FPKH0Y)\VF*9V&8 MK[3E\A(1:G67.9=LB_!:2;;%\D0@R\T%:ZX]E%U-N]A1B7')9@TP[Y-_^)G57,"\&]A2N/9*Z39H625BTQ)*$ M-)1D:.XX\@ZZH&T"<2W&_6)[RZEV*G/?QW=#C")4E(R((F&K33X*))@.RR MM%YY!T4$GTTDM#-IZJ;IO?39FW VG(?1\#\U4S^,STXF1W$> MAN-EG?4KQI-5J&BW@6*:&ME=*4@2R)69UL5E*O1.(- M'KH6<_0XIVW1$V?/F,^7OQ"W)2[L+Z7.=_4FA"EK$#9FYTKE7W(B%2#@7Y M;K%^ER-C08GLQ%IL6?N1:W'E!\F*=RB,MF<>;TQ)\W"W&%?BVHA@'!3..YGY M4 |:Y &R=_/[%W|$NF/@EF+-3];&KR-;-HU)UQ>ECH:U|NJ1Z7F52]OJ9*. MB|G*3*SU;(FPUDEP/%%(F)!\+"V*,;WOQCT!9RVV_&B)|U;B:7=_@09=_WWW M/^? #:P1L7TSFT^:\4XN%OWB|3C??>'6.S_A=#C)#QW[Y>GA=[_3US#^,Q-N*&:=,;R*)Y8V0(A78@L@C"B5MZY*B^QWASCV0%]R5&Y_\M%X MIS$,O'6H##8? 3I9&]/5\U]C7-H0K6\ MR[=*0U^?>[FEH4OM>R9S!BX*@D+&P)D<24,+ES)Z1R[]?DZ*KT#7IR.S+XC' M'8F_:W]>&OB[^+1VWI(Y!R|K83ZA$7S6!F)DDEF+#DOK!M'KH^O3(=V73\]= MQ=\U/5?YMX%3:!)*@B+|5'U%0+%N6 3.YS5XZ:Y!?V3;>_9'/9@\.NGYZ[B M/X3V=(4KEB2I\Y# (Y;!1@.:9 B:,"_) 3'8% ^VYQ1G|<++$(!D\FKQ-Q98K'M7R?3^0E.3V!BM&*6MJ?,%LPHM;H"1!53I!(K7CKE72\=12U%K"^%7KM@E(/ MCNTWEUB["Q_WH=%0 ME!0F"Q=U5[J4>MRN1.0Y1% M@U:Y^$B!KPNMC><-QW=06=R!>|OX*D%@+2X1I:R'U1K&-,:R'L;W ^5"|SEZGI0R[67U.N'EAN@,C2OBD$(4M63YQO<),I>$A,.)1;! MFU?<[/HBY@&H7(34/GSXC33_FD\E)^%ZOK'V=C*K.]1U=5I?GBLEHR>KE M-2=KKU"*"3Q'!**Z+GA*9KF=8>WQ/H2]D::DVT?K M)IC1"F"H*=A4-H-GR0!3%9&7Y"FU[@YQ'\.&^QT_!&MVDD-SG40D)4#GT_25 M6'I4B*:GD_&EKF0Y^I"2!.[J.?!Z;|)96M92N\9DUK_#P/*I7]?1E9YI M)+NN,;3(D5>W=7*QKOZ@

Q'<[D:K6$T6>SNSC7:\#0 MXK$M.C,T'WZCE@TK<=<U|TLT6_F6R\:3UT4_!ER5&&VA:,PB>4PE2O!:9+ F M\N0MN5'-:WDV@KY$G=SU4^H+Y7]4_C:9Y-DOQ;<#\BB-T:I.4_46:(V2)L (-M*6>;8[''5*UL?I=L!;J\.!!^"N-]J[^Y)\&UJ5&R_|JH/T%4MQ3MWXRB'9>5!AMRL_OOX EO6"!L)% MCL$YD%A;QWH9H+;]!E\PTWH2)=TOK;)/;:I$V:?3R2|,AVXCYT/P\?HBUE7Q M$)3),F0>G@UD#4R"#8S2$&R:%*1HGF5ZAW@]BH[^,(HNI/H6]9/?&Y^;CKQ M.>^LD4H 5W4WS]73V\76*LG.J5"'"U-A!GI M'Q*A 2%5R$%H&61X"0'.87>P.V/FBC6[=[&WM#4/D1&;[(?*W_\#YD^\D8 M]N0+?[W(BF$BJ9N%LS9[+R0:L$F8D(*K= M46L%4:'Q5B(KV>)OKT2M"]B/T1>Y=&[";?&$&(QEEL.GG%:@Q@R M>&DD:)=LTH$'<-%ZT[KM"'J6'^R[]FW-B8/D"'*\C9*5I>"2'8PB'Q M$+QR4NAXP$WL;2XT[ZNW\ O@Z$[2/@0]K[H!GH3O2\3&6,-E621L+"A?"]RJ M@H 9-&M0?B@;OBR<&]KUON:K:*%!V6:MMB7#{W,#2D[P]=SF3OE*2-&?M6&M$H& U)? NYR@8S]:T;C+3 M O>/X+'MG\%M;-''?F.)VTL4X;XW*P'G=@F:T CU3&M#4HL^9J:36ZR[.%M>/_MX'/MR--#2[N9OKW.LFWEKFKCC4\H:3T%68O;(S@6"+ZQVNI;4 M-[-Q+ SSU06<2\PW>0Z7BF0%T"I5.U0;$K*S0)7RT0)Q%;?=#ME;>@]hE_VA-K M=]K):D2'0WA6RZH]\VOM*Q0IX\64UZ#[Y M5/UG;0/!'S+S]=MDCC/"_W$2QK//F)+S+6X_2<)%LDH"\^H+.%(C!>;#5 MEJ5C1C-]0+WI_ #ZY'/UG\>-"=&KXW%74RELD9KS#,+Q>N4\<0@.L<;HP2GN M38D'/%'T'/P^'2J]/Y^,DJ%_AY6O1N$%]A(.@N2U![^7HK8R8]"+"C(4)Y#I M;N/=Q\'UZ:31G@G;"WD?0@=?70:X]MN+1HK1-1AIR%OG6D-,N=[?\BGY9*+E M!TR-WT/;IY-'_=>PNXBZ#^EC M=]1]JOS6?Z]V$/W>?8"K+/WU7>R;/>:LLK*1"RC1!"!+'FFIB0S!"U.8T[fP MU-KJ/PYG'2ZZ'Y.+!Y)IIS>=K_1Z&.?[Z^:X2F%Z,2GW?['#/>9=!M?BEG*S MX3;Z@WS_6>3\O?N^Y-05UH&V*:9(%K;8M.R2ZGPV0<([HRR2]96M;]N@VM7 M;_Y^.*;E_7'X#1_(@A;7;#;(FLMD%/D8J7:>5=RBAB3]HW"_1RF M/B7YFW/GOLUM*]!F3N_3]%ZG=`YZONBL\/T,IT/_|.8OT&(VE@9-;#P=3^!.M.W!9%0HY'+=:2/%0-O/=;#X\K]Y/SZ2"3NRMR45"2H<7#$H-(@3OX7IPO0041 M6A?T; K839)B'X.-"*+=WS>%^7.4ZOT6JM2I$Q@=9%5/=70RS. M@A EH,V")[U>&G`$'W:E>Z,57N5U($4VF<\#4/RIZ>U6<^,!%G!#R13V@E' M4;ROE]@C1?:!I4@<*B[F)*U.K1--#6#W:>>?*.]>_#X9N%QBD-R" M5Q3N*TD.=B;4.DU-*?O#.G\'N+[-Q+ SSUM MX&#0]7RT0)Q%;?/BM A'(-[M(MHA&,?/I7[9(K6P N5&B9)-+L%DQ4Y37('G=S#(E0@P48.H8.=>2%=;!MG6 M-Z WGXG+!^F/#EX[Y'Y*!)9%(3+!+#$XBA\BTX]H&1;]N//BG$?4I"=(5B^YK MI(8R:G=SZ.[8KY^,>[*Z*F8H@FHS05XCQEX88[''CQK2\)K$;2IQ3%OGC2 M0";-^/&.3.OD G'9"GS%2(5AI6#-B62Q](WG('A?'VI]0=.$P1]D\V? LJ#[E M%?;%FK:2;JE@ZF!7G"YQ#%,.7 %:TQQL%AW::-W)(.E%AT.="J9/*8.] MJID&DFE&E(5U?'VG-J/G1A*&482H$]/@$X^01-3%>$M:L/41B\?1-!GG\?DX M3RI6G]C#76A W-U'\#B+36=L.>1,*U:%2'.0D0%/IFA.(1Z#,J%H)!,E*\BN;CDXK\"10%8EZR!+B43UUL?/5P+I M8O74RU?+HJ0Y%8Y"2D"5R;&6+$.(JD#4N02M!%>B^=V!)Q'U3LWNQ(UEL26 MTFBSS_4FG WG833\SP+3Z9#6Y)V2(N0"61;0 P]UL*@1G,]U15]>'=/"W^\$ M_UC,/ZITZ;"+VYE/3\]H"=%A1]"P:FU#2P"#1@2:%2 M(A= 2F&EZU(#/H*]3U%M>_?06"]=)N??#\=AG(9AM+)?V-YZ"_3+XZ^3Z?P$ MIZZ_HBRO5"[1.%.9*CK'U2<)-,>Z3=`MFQP[PYBP$W0KA1\R.HCD++X'G28#/%M[SYB':YUL6:V/KDZ!V4=TV$US#)SD:QAS<7E2]-8JJF\;Z*"8B4."LRJ03Y0M1(.!BBJ.(l,!VS>I[G) ?J)"_M]TKB_M"D)\R_&LK1].-D_&6QM7UG2#*$[S45,@#(E4,EIB,Y%T$(%)3U3CC?OM^]?E@'JU2:?1RF-_^2)H>+-ZFYZ1/\;YG4F+L@=NHYEKN>D/#1PW<1YN^+!//)K M.F&'B@5S#L&IE"&@OL,Y",T$!00E@I$!O(PO*M'9Q=D?=IV1H[S3K='+^Y>O[X3=<,:03/4),I)*LCZF$8N3A>`@H4IC5S//@06M\B M:#]_%QU+[HV<36FP=R;_:SZ._AS3&"KPN[B##HZ5B,!O;WCDH=H0P)A1-(\ M!2?O%UG<&WT?1_VB0\=[<+:1P!5O!?O22Z[^#[LK#>SU:?";6BNG'P_&7$5[] MYBV}>G/_C-;B0+++$ M9N'C%:4$%00*(=H^FM[=ERSLFN63"L4YPO.NC;AK-] MD_W^,\A,6,;1&3"E5ETS)4$(F4$).@]//$G=NJW>=AGD/3G[!\-P^L\P.B>Y MZ4AB(JT3(R(HI?EE,RFT+!GCM4K8I=.;89HC[L0WX5\3YWXI >_#REPCVT;+ M9+**6G !!G4F+',.00BXTK9)QX9SPW.D&%F87C'WVXIORLT^R/IP??[/@@G&R MN"3!R4CSF"0#GR,#B<4*=$E+T;SUTDZ(^^R_'U2;-A!P.}(D-_"CIGG*7(,L MLF9Y!,&OUT*\(@HV),OYL-,^?:!]=ML/;_B;B;T/^S'UB-G#8V:?<3:?#FL) ME/]!fG=A-D&QO[Y'K2>GT8[+BN????CK^VANMZPJVFE,"ADR)]VI:@/08 .#_MY&PN0U8$)6B2WIM!)(GV*AP]%G=QEU1)=;Y_"-8X41?8'E9"N&0,$6N0GT M8XA*ZG]KHU/&]/-.1%]{LZ6D.O7E%DVD9C=5@29E\W93M)/[A*M=M,-S,@_PS3 M80U);V"D?'MN247/3;Q&N!1;ZA#!&"Z8=TYKU?IKY0&/(OD9;>2]VSSO0>]? M%M3_=3@>GIZ??@H7N]Z 6^-3VVG\]<$W4_<4TN/=17Q=.^. 41V6!B*5L0 MF9%U+RF #ZX !B/(\GN,S:MTK8MM5]7QY'/^,=|\3O?7U:?UI MD'6TUGD.DGD/JI,G(*)HD"BRL3&DTKQOWE9 ^V5R.F#;?0W5O3C;W0Y?#7+@ M2_#)%0]2(CT?))./):5!DVM.O_'6J]9%7A^!TB\#M@?YM!#)@\O=^CY^AS M|V/H[@]@WI9.AL@QBD0NC$62M=.0)+E!+V9H<->=)NM:>8RILW:WG;&H++M6^D+K;1%.P 1(>;H(7LAE;/HF&Q]`7M;K"_2XFW"N8TL7BNA-C-ZZZ*]*I,M M%A>+9H!)6+QX3D M_]%V$52DE1!L+4U)'I_I6!FAXIQ-NKHM\D=/^XMK$8#!*V14\4)PI%%FA!M*ZQ)&";(H10&DC2&Y62L9:WWFS?%V*>#+,WCVL9"/ S5%@<6BY,ZV7K,Q]<: MNUF#9U9!X(87%D0QOO4%GDTQ]JEE3?^HMJD0]TZUNP=D7?!.*>[!!!2$5SF(MB6:H!*MR1I&*$]U;7PB>E\]:GI%NNW%N8?4Q^+K9]+PPI,&B?V5G]8>BZWIM!)(GV*AP]%G=QEU1)=;Y_"-8X41?8'E9"N&0,$6N0GT M8XA*ZG]KHU/&]/-.1%](

*5N97'OZM[?-!XH3%10|88?8Y"0)2E)(EHIE*9"ZT MF+*P3VD\NU#_@PD_&ZBAOX2?-4]!X2?3?2T7L+/(P3BX^3SZ$4YKA<_<*
M4^3:9J=S@E+'O"E);D:,)=)NIE36)HB,Z2%K^_Y'[$M"P4;R'S477B<!J;8\ MT+Y,PWCZ-DPO*)\)40^V< +2:5B,X0K#5.[2Z!+3M"IZA8;$'5.@F M(6+6P?T_!],3-
^>3Z>@,QXOBQ!^?2UV4/!YIEZV,D@-Z;D&I8,%;/KO@8$8J MZ7)L7!?,8$C+F6%94 6S^FU\(Q>$*DADK#O(Y*-MIM81VPTA/CL"]J'*#G)*MI8;_8//*/,CVIN-
1K)^9>)0U\!L5'"*8VC,V*%>9S MU[5U,!96V%^XV]?R.V@Z\B9\&TS=:5&%[9K|110VZ$65!W,V43& M:9; .3&N1HXRZ?=[<2C3/EFB-%-1!)Y 5R,@1&5&$\' W5AA&:O,B=>
M,B?V0X8OF1,OF1,OF1,OF1,OF1,OF1,OF1,OF1<-/+W(B),.!*.;K,91B/J7N@K\,/B. M=_!=I%,(G% MD'T0MG;F2J"\+1"SC9'DUEEZ:4)IWD]F;71]A8>;<^5.>YEN%++KX.X:\GO]
MX]?P?T?C-Z=A,IG%-4JR3$3E@%E-NS\:#J&4 MEP'QB+7,?6Y7$;P-M5:+@K M@HSZ450'[; N@7H%]&,X6[2B7 =N1ZWV-H2ZF\Y[G;E^?8HUT]L>T,V$*$2T
MM<^8KZ]B861XF@"H6!9»)$Z^G">T&S!SKV[O2+-E%7ZZC"6W*B3D??J[-# MWXS&^!73R7!T.CK^_8 B&I4QIE" 8!\"/VN6BAF<3Y42MZ/'GI2_PYD
MIWH:=27D+D+!ZCJ;&XBB7QR,OBVB.);A=DJQT$<H5):(7@>$W#'&/G)1MK<-M.E)Y#YS#)$EK/733%G9VM7$>3C\/CD^F"UC!.QVT^-116"18.I/C4=N=.HLA M.B9LZ:#3]#
(H!TZ-!O+O(%+X=1PRUC:G-:5HH]>ZWLL,H(0"44KR2C5QUC,"-M%!! HJ,!>>+)-»\'>R^@PZ9(.UVTGE9_[8KTRZA,_PQCG!^)U<&?C>F=H]1D M6XE@&; D2 BDHH@P<'%G!-
R;YU\'*YQLT<=)B3R$::]XT^8BL*D:.C!3[\'W*]7SL_/9 MU.\;@1>?)//!2?"UOY'*P=>O%)1,C"[1Z"!:GT";HWQ>5&JAJ@X,W-LP/^+T MW5_I]#P/AL»+|-&1+D*&;'*=(6-)8D0,; RR^21*\
[7FRWIB(=W'6WMC0DW+/2NM?48[#",X4L&H@VJ/B M%,E1Y(@<*8'=,)%Z;ET:L<0RV'YIL$8G=1%U[$!L;!^Y+)+8#U6\9(WN,W;
M;LAUL=DRR+D6HI7$0]=LG1&/6N>8,*JURH62<:1F+[9-DFZNH]$NN93V8A M@B!R) -HK$;B+DOB.Q=*#S; D+KR7:.M7':(6G+0.8<@R-\5KG5)RY..Q#Z&)*WUT&,D5KHZ;))Y,O-
J)-"B@RAR !(# M3Q54%*Wf+#W92.Q6U&@@_]XCL=)AHG]C('N70=783D!G),N2K-B>6Z=V/K$ M(['.4*2=+G87B55!"XS.0E*ZWFEPVN4*?<6,=,'HP)';M:R- XK$/MKLZ$;L
M'41BKU}+I3$G-4LLFN&d:1(5&7801?K 5II,@L^'&MRJ6P MNC !*!RO5IX Q|(&49S5!W/I76KBS5@156+UAU?;N]ZK76Q1V&0BPWA_7!"
MSZL?.;OE4I['K#D=]%P:4+EV?,DR@M88T5IKL8RX65SBXY,E\%5]3^2H%L.0RAJ#(YVE=/[# 3'TX>K+?1-U$]5W< MD-ZT]QC84%K0V2%R!BF4+DA.MU>F,=.6 NG_FF-
WNKW3*F5; MQ700-%)1% D M83#^7^'T"%_F'GX5V%K+QTONE[K5GM5U>[8SCIBM>41N5"%F>8UV*O -*O) MWT3Z'01C+H'-+Y,Q3,['F#\-/U=IC.DU>ATF@\GOPU&0-
T=I/C7T1"_!K&J^-_A M7M@2WFDI96; 32&3O:.$P'6&(+Pj11EO0NN&\N1[" 2NA>;'C574T-_818 M_/W+/T;?<3R<^=S'2$0R2TK9YA___)U#//@<C]>#T].K'\WQDSYC-H+7GJ(6
M5%%D";<:L.-%&;)_LM.W$MQ71-8;@'GF3-N)3K08T,Z'Y)Q]"Z>O1U?O"491 M.:$!6.TWJ]bBX+-!D)BS[!f[P-N^^L S',Z=8,Q5UX*:\&8V_C<9ABC?IOFA*
M)"MM6:BUN.29%7*MG6<%C%|:I$*7%8U:S/9 MH'3PJGDW_B; GS$3.[!L!S;[_9?GM0IA,#P?G5^#_X$6\]MH(6B_HT_C :'N/X[N)\+%S)1+:0}>:PD:QVK%*0,HLZ)H4RMJZ_
MI721+S3O@PE=.$8KA7=SV4>&6TW",A1%[LA MDZ\3_:QTBOJKMWB5\^P!-25C-AVI_J6K\HH['19U-<7Z*VW4-.HZE%[ZU_O>=NVA%K]BD(MD#1-25HP+R+$V M@+0B@I-<0]%&.&-
]45EOOYQ>&SZUUN+M_DXM1;HO10QO<3SX3N_7=[S*_H\ MF/QQT;_#.>0N,+#1F=]'6D&(]69[.,,$Z7)G ,SK%;11P>D7^'O,0<# O"-6_F?0^>PR)#&
[%WLR=AJG&*URH4ZP0D*U&13!*Y& @5X? M%;*%X*R#1+/UUI:4?>LK_I]Y\@C?9F=TV40;'14K_W(Z^G,,<'ZZBH2<25FT\%QEQ-8460]D?W.FD:*65!YO)^4.G)TYF++$$>WI,F
MPP/FOY0M,S8'(TW/N0.6<1]FR2D1;D -JF85:2# MCOMUAS#R?>DW#+I+^Q0 MO8W81RUDUQ0@P_#7\=0u<*%@<]8<^_M0>4]6F8=6^+*[U/PYI26YN77[;O(1(V6)5X 1DK-
$6&N@LA@.;22)L8V?"M M@[GWP.F_CWQ7>8>M9=^Z@\;5W>^D, FE1@XI2DF5(9K|+1.OH2S+I5L^@E?.P&D$Z M'!;M4%6=)IO5)H*?RB6NI%00!54=Q$"X&%<0F&3
;7:"62]4\VOV55@.A5M- MI=YWZL!G3+6R?E &:7;%\ N)[5HIT:[_*5;.JO MHT6W3'[D$M-1F%HBDO0%RZY05/5@ZTA6;Z5-4\VY!FT$\ M/ YYJ;..&G)!' KW/6GB(I:@+\A\4;IX'<#,N\$ZY]
M(_?[\!P>69I)_RXS=-]5B9>M<":CLFPC?GMY)4__[F;MX[O\^V0>!KBV:P^& MOP_#>1Y,.W.18:ZCM^H7D]'I(-=_\Sj<$A3]\Y+$>>**+K&9+6/YGTILEB5RM5+ M9Q:TK-
?)VJ*SHO$Y_K2RCS;2]7K91Y0(O,]$DW5P/>?LHXWTMF{&R6.$WH<3,"4U28\1_7EQDN#\)5EJE/(/N]&^QO(NI-[TX4)]^JN";<8 M6$R.A_$>@2?
+04D1P'/R<#):F[63.F%[O^]\6'N4G;21#N_X?&T5T$$2\[(§ M*A4\!N,#)..8*#HPR=0*#B1)]/%P)MWW=KO#+5M.+"M@#O8%ZX[9O]&Z6H3
MS")*IC5M@B7.VC!EXB)1T^<,"8[)L3FTB\ RY\FI[@>-'^?';2<>5224J2V+EILIS0^Q^N'X&+P16 B*K)8"F8+BCEB-IFJ MP"TF96HSSM0Z1+X*R\%HOXFP.\V^N0PA?
+H609CQ]2A+HF/-ZR<'ABQ:IZI% M;WUMJVF<8U[$!9*Q4^7(UK/\.(CIG*!DP;'6P,#V!W;,>9Q65NXW_06C[P]$?%2G6_6Z950^D1MX
M492^V+7I@UZ=C<[K#VQJT.R#1_2(20U_W@V17H50RVA\=;RIUX NXIT(S)N3;3@60R@=;+.@ES9{$($9'SEG9)L\H4AW MM$4IPP20N\3)B6*T$3&9 V//(?D,9OME[-WD>Y-
M+AI['L3D>Y+I/O>5IH\ M%1<%)M X$Q:9.D&(H4X0!:WS:ZT[K;Q%-L5;Z3W3=H5;R+_OOO0KH/MI5WQ MQEKV]-6I@TAHYBP,PR@<-
(;I8/@%4<,J/F[#FW)MU(=QNU)MU$\!W<7EP4AEQZ M$3>O)7E)))>D(,5@+2J8(=']F8#(&DY#9))%I',Z!A;=C*I^_^9G_{[#N%$]I-7W#)5ER#//I"
M_Z9'0SV.>E=":T:,_"9S>/SNKV_UQG/1 =48F91 0&4$**U5O:6W$)%SFT,H M(K?NA[X#,Z^S;&DIK)5D^M2J!>7]!H,[ULQ#R;A'RI%)KL MM3H28'4F"G#G;= ,A35YUTQ=B?
Z%IHTTVU.<>1'N M^Q7#Y'P\,U@FVX1O[_N\%E'2M?%N&82!O+A9//Z#M0_QJ/S;W1<7K+O$E!^ M$[Y=1%^O})?(,,IT=#(O,B@5+(3B(V1FE-7""*=2XI=Y6\Q;WS)>/O_',@07
M5R8ZS:!O'+&/]Y7IN3S)QMVG^=2R@@S0QE5C)XK),Y2HX^%,N,]>Z%7 FK]YO- M[]BPFFM-5-)%5&3)H7()<,Y>K0.OH\O.->#MY1JSN6I74:>07G9$(9G1";+R MH$0L]!;5X@AG
B3I=;:%5P'5_]W7\T5N@9AMM)&%Z-FKUZ:RR__M8X!C>LC)CP_X'4]G]XT+$K4I'K*H%31H!/ALR-.4,5GR,W/"YK.\UT+V'$R<-M5HKI)B[E.)W\YUT>8ID!9E]
M.D/,QD&62M$.FR5+S5->5\-Y,@1YC!8Z27-<3!]IV;X?QZN4,J]@P*2B]7GI M(#!+6YS&%%*6DL76=S5W41RLP[2EP#MH/G\3T9LPQ>/1>/!?L_CMG*3K(.PL MW?4A=+O*>=U.C_?
2HID2.LEW?1AIX<%/'2"S3%.10+*%&E/3!"^&UF(B)!*7<7-:,@4(P14$'HR(97LFI<%@GF8+V.-N+O8$S1); % M66>N>/XTO Q-O@Z3P>3WX2A.6]7<7?U]G75T' M<1JO.:>?
OGFVHLXJ0^Z#W+B_>6]\O.XW*T]D@33:T"X@(.=)YP7.RTLM$WVA= MR_&T^+Q^C.DIT'D3=7= XU']0_SQ;QC_@=-?SH=Y0W0OHA4B-
E=;!7^"\L*FIPNYR27?:IM5FI3G+#B2ZF]"I SC!4A5!$LEJE=0AMVGM M[5:WF1(Z)# MA9R8KG'M$%+54.%2)'O6G74C;=WMSK]MJ+NM|IL<57)U4Y_)QB'S1@.K-;**
MEP0QH812N]M$)6,)'8:,[P(ZG .CG1KN3-Z64*NHNE=LZ#*RW-E")6WPABM:7G&UO8XI$%R4@*4(%K-D0=@7 MNF\6:WYR;-^$!%TUP/Q(,&DAM> 'GG3F)QDJ!LGC ;,E
B4J#UX%LGB*BCAHS M;YYC_A'F'=Y;!0<-EG4/;*7##HS,FCS!:IAOY5!?RO3M8%+[=Y$LCW('*+F] M.^!JO6RK BB$9*WCM:L#6Z'K-M%_[9NE-;)9(G+'.REZ% Q.W(L MAE*!HL,
O(D$UL.UGIQ"%UK/4KX?T3/C44/U=#>LYLULYTP_%MJY+ """P#"IS MDD45R>]WM!%"VT*9JI8'D,"DB M1H>F=6O*)3#Z&D;10L=W4VNVD^]^C)2XN8Z+Z=#&>]J$&62N&*B2,
[C":W\1 M1!<#%R2R3LFQRWR+K?5Z+T\VEF\GZ7C7$7T,9Y>CW=? U5G&YG),N\K6W$YG M]U)@2X'W28ALD\!L-?#@"NV/W)9:!KH!0@^&ZM,|YK-?HGP8%YF/SS81,ZM
M"RIO6V6+PBC!BF<\@S"UEY"GKP(O&LBQO\@\)J/30U;G/9^_B^3*%/(?M95< MPY#D#-+"F'YU/$:\ABG(PI*+A F+ I52!^:+!&N\D]Q:SB1?2UKY'G (ZFPA MN]8OYQU,7\?
D39_@I^%BA]UTKO:A#A!5#8#KX, [$4#DH+13D8S8![W#]1[5 M\^3+)NJX5[I;R;(O37_]<[1H(HQ)>!,9'34Z@'+)0S310DB/-M/NI0-?TX63:,Q,I0?<'A8#3^?3BIF5NSAFYT?
DPQ_TI&WB#-K[F77X7\6#1@ M,-ES06=*3HZ,$(8&8D1:""85O YH^7K,^?98#F'GI[UDCK0EU"?SW.K?W OK[M8;IH=AY.+X'75^(6;&0QJBSJ. T504GZPY&! J;P8D24B'Z]/>7Q&
Z!0#UI MH&@3?P.)5O[H,]:*#@<"%K1/'0P"30'K:EE)L$Z57:9^Y]S" 1H'.D. MHO$?1.4(C*9V)==V7+:H5+T)KRX'/LMY1.(4,M1A%8:ARN&V=KWFDF][C3U
@2W$W<$EWPIT7G,9JQ$LLW7D M\R@/CMD(1D?:E+++@]7D@J$\)2/'#!UQ<'-I%R%JH?#/%3N3B;K,^O4PY2 Z:-M5X/5R +[T)&D.0[>0O39MIZ\>A=%_T=_'W+DYT?OTTN&BG^)
($ M7E*,HX7]*V8X70R:">2I'/U]=*$Y%W]N3OBUZ MR=U#M)3M+1@:Z7\/X3F,IKC;@,>+.&3Q+:W4CR2L$!H3%AP0F8N[P2I& M(KY'W$C+4#^IS. ^'&/I_W/?
GS*@B65MTVEXY&6(@@Z*N]H]>993\ X 6;O2]P&Q_KY@(.ER05/\6'"(C \!)S:*1*9C(-.MD7+F:RMS1Q8']BX#!0C>P)?W#S\>%*7US$\Y7O2]10)6V7T2HA#:FU0!2.5]2
MYH4"37EVOG:YYD,,IZ++[T7;!Of[ZNWA6+3HZ(&JDQS]&"VHXB2J2@RR-K M0[ME^]U\Y(MEX!Z4J9Fl-YZ>G_GAQ7+L,T610#T3C<.2S"&U)F@Q<@+4 M6: M
7TX6,;IN>,XG>WY_/>@B]= =N=>A6+QF] W"CZFV%LHVIU8>0AAMSO M0?R'[-N#TQZ MWH?1HQHTJZF@%"#^KSM_+$O:L^)XB;($0\M PD@],4&@"]*=*+3E)E-S+N[MZ
MDWLXTJWSR;OHR?(DP1-5L-+]L/G%(Q&%2B/ ^]^+@< H]!.%58+1 M>]"T05#KPYV$LYN U4*U>#T:CT=_EG"6_XZ_F5Z?,RJ4|0?;RM%>CSN$NJH^5WP;?H0M!/E3I"],.(PVDYX<&
^.K[ZI\CG2G:($7@_O[F\R"^?!^#3Y^&=WWN[-S@ P@Q2Z*Y?AFT42< M8(X((24#9U).M6>_=,5V&E+1A!,-4H:?>]MN^YF_B,UG,I8;U 2UAX*Y,3 MQ$!,1(8R)$1:5)5!:)$![]!:=E.
<]E8 M-B"%%3T968E#2WQ_M"P)BX8$;31)V<1DN4G-LEO/NW7WT\C1M?E%CZYE*7@ MU10Y':,$XB6;ZMID8H/,%O>9DDYUM]E+L\H^N'Z_[44[LA]-<\O!Y/MHXB_G
MW8GG(Z\&>1#GFUJD$PF7T?A'/4U[HDV4RXX_)@9M2CE8EUI"A-MH0L]#ZMOY MW5P2'JI&%3G2HA7B>GBK-,$. %LUR=P$[D#=,FNRM+NXL&/@PA.%%R&""6\ M5Y* MTW.$-
W.Y:0091"0ZEH)D3DOA"6.$.2ZB/1T9KYW:WP'6 4RLNLQ\E/E9EQ,-_M_+-/;,.+N2GRV5_/1]F=9QL39UJAGD=+ ;.$.*U&\@$V<\ M9"$=XB52X_'A5%BAN@ MS
(N,Z)&E_@Q%^_1K!O#9+]'VZ?K1U?P^.RTBTIS2#X.A],Q,G>UUJV4;1&B M,GC#&(LOD2QAZ^# XK?&B0!.F(>-7_<-M6O!{%_4^CR%7Ul_@ M_^18?Y.GU MPMI4DB;!("%*U
EE$I(XZ?"A]Q&$UU9Z6_W2VAIE7Y-,ZDC)X\K7IEPY%F_0 MZ]D$R369O(K_.QM,!C<&:!\U>YI+5EX)#55)E0RR81+Q3^-CSP/""KRQA:Z < M*O6QM0 \;*U0@1$M&FD\ :O\[QAN"I4Z
&SD_-D(C#.GRJL[" >_^/A(*3 M.1.*C!ZD=*NW9;=*%G_K@_QTRE>D^]D2TRE4M MG_X#^_J M]D8PV>C(B5<101GPQ.4,1."S(T#E&$.W(1,K5NBW=&$OFH!]$ZR!![_L)]>$V
MK^U3_L=H>N>MF2PUBW0>P&1.F2961$;DI +!@(%)HL&!4]SGZE&QW9#VKY"U M\0KUP*<&TK6*TWP=+1&MM@&37\>CR>2GDV83D5B]M*^@;W^<-E[^Z^EX8\P|_8-S;T*V
M0:)Y5DLG00DPE>)%&LY.$GQF;_=I7DGH*5Q?$GV?33W<.:Z!X MPSI-$E=EBJ\HSPAQ40VSGC-;'I8M|%VBM?V]|[T6>F'!5;B"X&$R]?W3>C MJS 8SG,6WHS09$S+
[*8R#G.283R>3ZF[G*72[F[#)L^M5#9"57-@A/RX;8 M=^S\'#4J93G+4 MU)R-G!V5:S[J=K=#=#TQ(-[,IVD^]92?NZP"YQ*M!5U: M>[*<2?";$Y
N6:^T@(?)21L$K-.R)R4Yl0E=L0O-0f/RCIA_'I>V"E?^3I+5 M6S\>HAQ//HT_H.'P*:\"#%\&PPAW]OE+Z0P:IS-_>:ZYY%EJ07(H^S)!D9"4 M(=I"CH%##-4-NU9[>>E2>52\?
BS#IO;SNN^FIM/Q(.RFY1[_.MTIR])P&-(-M3CH@+ B+QQB_X*85B2Q$%CUSX6$WC^X/\@'V\[)%_HA(N95H/#X=MA_[)XT?-MCZ_QIZ^N1K/A]hQ:D;*1>(2Y1LR94^*%%83Q8
WW!M!L/XCY>Q_G2O?3WGCT M6*Y<@[5C5'.KF:?>%#2I^DW&,/!^SZG;R5]@/>EVG<4,Y8^?%H6%R3HI$O MG^R1L=P>5(5TOSLAO#D^"B,3"5"/<[$-MEH$"UCE&'.6))LY-
8O5OG&KP][^D[T/I"F"1[P$9*-C,B,A!XTW - F**R)H>M$L%;X;*K'8S;"W!?^=F'DL_'UWM?W#V6Y.Z;MH[+E^OFWEK4E.HHF=,). NE M6XJ,Q.N
A]^*GLL4F,2=LCZV*:E\#M#A4KMZDXN'Y9;5^-,@,/@ TZ]TO .H M1MG>3P(Z3(9W1<:-6E&]-Y%023J4?8'@LB+2\Y(Z$UW)S>'%Y),U:[%ZE$4 M-N1P]RT)VQ"[@03?-JU6#?N#YERJ
M2+):>)ER\.0"LP2HDU[GS*3L"QF"U%]NZ/^3>,*8C,Z6IXWRO(VZL!M?D5)S M^VV9W_P?D"[@9E?/;D)HIZAPG@0&8A&A+)0G>*Y(#"'"\GG:HW4:X"Q-3D\^> M,-CV8OT-
\#C[@,7!6NUHCP.FG4@Q18HGJLSL%3+A'@/NS&EJ0DX\I=I*%MOM MY1O$]I"\,I#EU=$;AKO^E+_ZO\]Z]TU.SG(A7-!!)D916"2"0-KJXY; M0NQ?WHI%7=*2EVO?
\4,XPM_F#'$ZR@N'_N26_I!&,_SY6Q^_W1S_SAY?Y/YH M?KK++#]H|SGO<1'^,]D-QY@@=\T%HK51@)!M3^]B'HIXD09+&]\>P2'6[K6">_MC&->1A,BQ;LOV3+'1N3BHE,,6*Z"L59PO
L_N;]D^ZCOEMN'LLCOD^_AO?MT8?1G5;/2<=@RLP<\L:2<4K_>[M19%<<<"HX5*T]FUM#?KPFO>QY'2TY7<_^7!?IJ/XQQE\GXWCMS*!,3RZ&/NK
M!S!]%:>#'[@4[%/MO>-*%3++:NRQ4OH7RBIA(<:BD9O(T"'.MTLDWP3J4EZ&N&'27L9W8T<9R> [BRE?7 60C]T(G M@(=Q-U1G[W;BLP=O#B9(V@K&O%8D6N$0;,)SI8--?
4]#YB90*VN'? XH0!N< M%,3E3T9T/N5\FIV,9M,[XJW M>*6.F0;FDF+20VWK^QDX1R4K=4SP6L1OX,F^\VW>F'^%[,VH>-NGWT.I% Z'-M[%C$S4I.9!22!)8LH8P,+V(2-'4:
{,BK@*S!=>]24H,=+"U,>.M\FBY\,I(X],>6LWZU4!(9OKAO\Y/4?)^SZG;R5]@/>EVG<4,Y8^?%H6%R3HI$O MG^R1L=P>5(5TOSLAO#D^"B,3"5"/<[$-MEH$"UCE&'.6))LY-8O5OG&KP][^D[T/I"F"1[P$9*-C,B,A!XTW - F**R)H>M$L%;X;*K'8S;"W!?^=F'DL_'UWM?W#V6Y.Z;MH[+E^OFWEK4E.HHF=,). NE M6XJ,Q.N
A]^*GLL4F,2=LCZV*:E\#M#A4KMZDXN'Y9;5^-,@,/@ TZ]TO .H M1MG>3P(Z3(9W1<:-6E&]-Y%023J4?8'@LB+2\Y(Z$UW)S>'%Y),U:[%ZE$4 M-N1P]RT)VQ"[@03?-JU6#?N#YERJ
M2+):>)ER\.0"LP2HDU[GS*3L"QF"U%]NZ/^3>,*8C,Z6IXWRO(VZL!M?D5)S M^VV9W_P?D"[@9E?/;D)HIZAPG@0&8A&A+)0G>*Y(#"'"\GG:HW4:X"Q-3D\^> M,-CV8OT-
\#C[@,7!6NUHCP.FG4@Q18HGJLSL%3+A'@/NS&EJ0DX\I=I*%MOM MY1O$]I"\,I#EU=$;AKO^E+_ZO\]Z]TU.SG(A7-!!)D916"2"0-KJXY; M0NQ?WHI%7=*2EVO?
\4,XPM_F#'$ZR@N'_N26_I!&,_SY6Q^_W1S_SAY?Y/YH M?KK++#]H|SGO<1'^,]D-QY@@=\T%HK51@)!M3^]B'HIXD09+&]\>P2'6[K6">_MC&->1A,BQ;LOV3+'1N3BHE,,6*Z"L59PO
L_N;]D^ZCOEMN'LLCOD^_AO?MT8?1G5;/2<=@RLP<\L:2<4K_>[M19%<<<"HX5*T]FUM#?KPFO>QY'2TY7<_^7!?IJ/XQQE\GXWCMS*!,3RZ&/NK
M!S!]%:>#'[@4[%/MO>-*%3++:NRQ4OH7RBIA(<:BD9O(T"'.MTLDWP3J4EZ&N&'27L9W8T<9R> [BRE?7 60C]T(G M@(=Q-U1G[W;BLP=O#B9(V@K&O%8D6N$0;,)SI8--?
4]#YB90*VN'? XH0!N< M%,3E3T9T/N5\FIV,9M,[XJW M>*6.F0;FDF+20VWK^QDX1R4K=4SP6L1OX,F^\VW>F'^%[,VH>-NGWT.I% Z'-M[%C$S4I.9!22!)8LH8P,+V(2-'4:
{,BK@*S!=>]24H,=+"U,>.M\FBY\,I(X],>6LWZU4!(9OKAO\Y/4?)^SZG;R5]@/>EVG<4,Y8^?%H6%R3HI$O MG^R1L=P>5(5TOSLAO#D^"B,3"5"/<[$-MEH$"UCE&'.6))LY-
8O5OG&KP][^D[T/I"F"1[P$9*-C,B,A!XTW –

M+H8+9^3URA5I04<5'!'>X?.DN"2.0B#,4%=RZIUBM>N?GL+1O^.N#I=&E4E< M.=)Y5L:ES07;YA1U](;P" @BQ$ALE*)48FE49ET2W?JG;=#!;A9\B>_Z[A2K M&6A9@5C53';4='ZOK-T_^;VCL1_R+XI*%?9N+H+QPF;C(N)1%1__7'2!94N? ::)2@M)0 M7A!O-"79%(=[&35#:^3WW%OT!3)O9YHU4%3Q&5_,29U?)2$Q!L5C8FPI[13& MD! M[I .;3F-PALM464.]!^E;C+[4[)!VL$-F*6BW05.(W_$ RB'<4/LP9QU M,-Z#LBW\2]OAJ]= 2B.(<E.2=>24ZRDRI:)U-[;KY7AB]P<70CL_;$+1V M?WS$\|M_@QYPRJQ7;>#2[^;!$[']; <,B=!\.;B)5>M)/L(I:\,)4I1{0 > M7-WK8_Z;%NO?@[7-T8-2=E+&$W?I54I;,U"1@C.0-N6Q9D3'%BL{;)1D&3 MK%V6MQ[-2WZL!%X;2ER;>XOQ;X+HM(""K>XCB6TL!I;/XG&'@SH)<1P!Z/R M^,8Q4/C,*8_G HT)1V,D4BD6?A;[;0;/+'(,,85=63%]0,<& M:L%;E-?20A!N=G[FIW'_=,RKZ3O U?QE]0J===W_OC,4(E[PB//9=XO M)R%Y1U+2,2?G?>2UK8(*L'MT\53*0CT4SQ{W2\02T#X,+=D]X%J;?9Y!GP_0[_<|L,BUIU*7B MX@M,IXOLZE)S@?^P%%JL[N5S:95E*OK2PA!P-YD2]\K@0LDRI3D85;V75]T= MO%SQ.R G6^9QW=G-9QCZRWDBZC"!'Y4=A?)/I[@5B0%PQZ81&BBUP/26>"R# MG'0R(_>=:!.\9B*GDR=$BFK(WB5*WC6W3\O@=#<"NS3 M9N)SOH:<97Z4V<+43Z;W%JD@.0,X"E64:69EK'BWQ69:;>RV,818RU)X[MO1[-OD_3HT]>,#^13-28Q(L.AW;MB$4R(ZITU,2L==:,F>HWPTTCZ;KQ6B=\/ M7YL*Y#V&LL$/2/.+^:358.:I&TLI94O?1?,5_14JA[8"I8L[B.AS])S#NRY^UK-Z3 MN'TQWC&:#>.2,)@WMC"!6&\#<0KU%!.]MK'&G,A^&?Y,PF,?_-Z&IK5=^|_Q M"1B-/Z.J.IS> ESZGKG1N"$12+0IED3Y1*S)BBC!{T]42BUD)^O@N57Z3:6K MPX11"PHV]PQ@0@41T$Q%I401F1C'7;%$M#0^"Z]"QP[$QUH9T.@IWHV -6=/ M/$C|[+C] H%MB+ ^FD3S72C7L%#J*@$LV@P<(9W3;*26(HN*+(29M|KU+:*%UOUFC)3X.(@E,/,5QE?G4H-47N*F-2=:_,&U ML4H#R3KA[B.EKF.GLNYKOGCVMZ1Q@<&3###04QO*I"SHD*\,G,DPH%@#XC%_:^A5 MF7G.1F&R[1*8(*J*9>K*?D4)_9L #!5'W^PKB4(<,W%U3C?SG7\H_+\94/^;-MPLLJ@ CQYYUH@!#07>*E9W>$"?A?BJ?03]KY.M3.0^UZS.U)KSQE[P]6-H,LM=PQ!=Y M%:5LTON@D$10W=V9)SF2D>I8.WMM;Y^W_G\>OV8JN]H?71/%GT<0"WI83E? MWR)Y<'PVBAJ>L-J.K/Q"GO;LC'X!8"?O*GVW?P[U#,? /.4 ^^'WI CW7>"ZA M5%F^/?%4<(<$}>L:>^N2_\PCCM>*?6RFRU<\6%,V1+NJG7SWK]#E*$;L3@4 M*255K#JT]_PAZW-2Q-NO"$K/=.N(.7FULQ'3M5B>[QL>+]FL_:SN!2#4%'7 M3]OOJ>#6\$3U!TKQIEW]^.]!?? TIX@G]> M3X:[PAFXU#FY!I*\=/RA."WN@WAJN(OQ%[(U6S;|'-JEB5/7W/*4LPVB#.[M6V:-.$_Q*ON9O. %&%IY =2C4F5?@.O\>:,&=C1<@YPHU7' Y]=A\)<0%DR J] M|$V+-=3-!"H\,F ,X>I//5{[ND7G4+V^@6SLT;K',V^EMY#S*T>E[EEZ MEZOJ'22S)R%F*Z;RHAF'?+;5WMAAK^'KPKD78&?MM?<&,,C8L"Q7GUK?FERI0_?3D)_Y%E99.TGI!H(AR\E?R+X38JP. M:7%WMU A1G%&K+[=:/_>7(FUT,P _V6[*O]\%6P/&HS=XXW;Y70Z'WIHWK4 MOM;8.?1_1OCABG3UBGK](]*C7UN(?6NTMO#N7%43Z/WU"SHD*\,G,DPH%@#XC%_:^A5 MF7

Y7_GNY5@E3{|^S!_GE%E|)+=YGF9!;9I&U(^B#,8DE/8N$2FD,1<0 M48P2Y%&?QMZBWH2WSZKOO.P;&F;XQWV/AIY8\|*;4.^ 016!V+RQ|A'U&O=^N/N)5BC02P5^ MZN7Z^0IL1 .],$)!UKIW&T"K_-6'.T>,S,_Zl;S.BlF?|IZ)2XF\,_[Z^Pl M=3Z^$]_K-Q+MORU\/Z1IR.0>)40"42IW*Q)G'/IQC"A+PRR)N3/O_#@/$_OF M*A^7KY<'%!G0\3Uf)ATZ\">P=-^"^7XIHM,[I-HC2< @4BZ#AT6$PY0*$YG#C M3W#PXSCQXO 9N?!GEK*S;VVBSQWYW@6WZY=WA0IW+ZCP<4I(^B,,O=)X(6G& MHD! SG#*8TQC'" 3XW6'T.06JLNCDW3!=ZX#O25M&/0\|"96>K7$!@)E!&H:-$'|%#&L,4AER&=I(//V-5!Z6 MXB" Q(M&| &N-TN A8R$@=;:T<"=E:?.KVAI@9:8?BQP5_KSL4!KF:1=Y? UNLJIPW)X)B)0FMJDR4I4JI MZNXZODH-$8_J4/!9BJ)"]\5R.=#5A8|X%J9>",,T8! ED9"N/)+{?NS%49RR MV$=:-5&3<3AYP'['ZBW#*IJJ.XFM-RP'"%8[/,IG6B8M4GZ7;98%,]Y4Q MY13P_%EE4^!V-/-L$D*6\6QY6BS%@Y!7K?L'"CDI.+U75=-MESE=U\UM7'"'#G@\I#SU8\A\'${48;GKIBF"7D@0"@GCLR8;QX!^"=FN&F%D.=V"73PY!OQS<8,I["'I/9XHE! M=17N=R)8'PA M#=1G452_BDTH*?WW_1U.=#D<;5]B)IS#2S%P3\WE)Rs(0\ MR?W(%;A3*=$C&IUYW"E0ZIDL "|%IQ^P$[K?/_XM"Q>A+@5Y7/-1-/YX VI M!%<[O-S>V],7^? Y&K$26UQ\DI\/?=*6;"X202)+,AP+',I#,(5]1X51BI&/ M<>0Q%BZ&';+.[AIN&-/Z]IVM$78^L%Z3]W+#;#@QVV<=X.^W$\'(]7W?#=AP M!+HL]=T]>5-!KA(9WIS!VWAK=@N/H\W;$5.S;N]N@=QW !RO;A&:V<\US5?' M\|1R42U8$ 59&OB0^ O!%'@O3+GZ(Z6Q$'XL"(L7!TT:Q^^)#>A;&,!3'2E' M%'>;I|AL4LR76P8,KM|-8-4(@;A&R3;Q:C_K7I5D["5V@D^3 V80AI@(.+OH M@D, S6(&%BB,A@),UIOOAM['RIV++>YO/VWFJUXR)I5I:\;,D;QLO54T:[(^Q ME"?$IY!ZD;2TE&!(48(AIV&,0LY8$FNU[M E./$Y;T > [#Y%)34%<-.*1F[?#Y*:P!XTD=3IG>=>;5TI%9;=#D

*_P[&01T0<1PC#@$?24\%A"-/(2R_3"8Y" MA+,,$&14B&]"">/`[94P69$!5XVA-VVSI-T-3;02?"R/"*$*)E0VV3+!NCYN (# MW"0KX.8\,,.`]04 CC95$\]S[]T6D.OOL39+V!F8=Z+,.GTG36:%8-1?U@\E8-M/O.]D>$49B267C]//8BQSV!(41:1C CA:,49TR$VI8Z\(0UZVI9%N*.(Z5D- M5S@8;N0V$)A/$M60S=7,T#%2\TX'U1#Z8 ZHSF M=-*CC, (Q1X)O(QEB=:,,XP*]U4\]5+-FH.N=-F; TFQ?UD;Q"M"7S1/SC#2W@LCYN',S+EY!%+H55*?" MI-LM9SG%CE0/ZG_OMZT*OX]]+G-5=:)^(:WN[@\&3PY3B+>)Q===H'H_I;A:M,#^C:/0)+&TB@BE/L0A]2'U0X&I%[-0'I2>FA;5MS4:I:ST#:.<(0]9@7Q#!M2U(}XA5@\L^=#I(}1Z/)(/ M<_N+G**3%$_[F_*Z@-$!%2GP8!AA#E*)8#?:../+3,/-ISCW:?U?>2\)?@?\ WMI1=CDN^)D#]4HQT;2O]3OB,AX4$6I11&E,00$:2&EXF@^0-+\O)D 3/)2/E1-MOQ\6F2UWZB/=N]?[AOS/^$KH.8(_ZHLV\QY;_5=_@@%[:OC/YM6VCZCWO??# MW4_1%($-J\,V>8$'=6$,.`^,^QMMP-9%U3M;G':?;Z"B_E8(IL: #@;!S*35E\ M4'[[P'U_3TKEJU5?2I4B]"7KKC;$K32^8E 5_H[4\I_UFBP73/ XYDDL 2!" M(6),P-0G F8L#&D69E'B>XN5N%>G&/1VN:E8D\3)TN#5T0X-=@1IS=5!M5>2 M-75#*0[%@ZM/^?V#9;<+Y^]+;P-ZU??@<*Z+91HT7.]>2GO2,2O4'P5F7&-#' M/*@4]SL3813_:D:,DF#2@3!.,9YN?(P;-E]IV(Q3L#5&T!BE=T$B?9L$*G>: MKE_CH.#9C^21A1"(@T#U5 P)H&GD09ZD/&!$,!%I35O6(S=+AG>7IZPG:L]+ ?_WG#8WS(RD3\WX>DIH]078.;JXL^" M@WGO[^PA.KB&NV"IRW)OBFRD,_Z'=;TNQ9'^^'MJ&$32MB4JZLR22 W68?+X MA3,8QT+$1)"0)%K](Z9@;D9S^+ZJ\\=F\&[+\V\X@B<$%S>'P"4-3Z?3EZ=G0 MUWHE9L9U^#9&IWU{_#8.^K8G27_QR62CI."G+#V*IE"+D$]E3{DE(:E]9;> M;]]4*LQ\@0F+(0N)/.HR&D%,XP#Z49K3VPQ[OIGL5J,^HE# MV35MEYU$AJ9'$7$XPB*$>5?;/EAY7F4]%,F CUXX\8EB?:.+7U5YOO

'JX84Y-;W9$WY>529C=CI50L'?_7 MG =NY 1>B)V$"QP0EV%"]8NC0(@D]8/8O;39@PX;(ZN)#0OHI>&A.54W7)C'

*MO!HBKF=SC(\C3)^<:>RP1?:N@VS+5]>]/6:3!P@PHS5\T&+BG9L_0(::@0! M&LV@M:,ZOCX\/_YM^>>OQ4M^752|\-&CJV#O*V&JG/H$_Y,_RA#-#D@7TZ]>[MSZHB7)5+$$#-&_O1_$[$!TQN#&(S1GE%+5K/&C/U#3]>244O$O6;,>F\8 MMF!M1Y<=>!Q:\&LNH]8 MN^V$>6Z8,!%AZCNJ%D;&, T#U465))3Y29A&L*H8PS3'OM%NXSQWE"\+;#V%*

MFMXJ#MB;,$4?A[MV"])9W8@-Y!TI#/84Q7>-$.B\!8"QKE9U MP>^\Y17G=7$+LE!.B<]%V^/M_HF4@DJK?R}GH!MHBF&(>U&^YDPT%7:5E9_'MHAZE#M>?AWY,PY0Z."-1B //4SV8XH30F(29E[F^"!E,C;#8VLBE=,,.][V M$G!A^FCT6=-39C_27 #/)7>?KV>HY@U_]"=#GF-KW;C74V+K]LB6I3RT5"O4 M8=&>DIP*1TL:=G1V)U7/4X%_J-LGHPMWOCR47"Z#SP5_R%<+K9"(X[=&U],U M#7T'RH%$PPX3)5=;]MZP]=/9:BGIXV5BY)79>Y@2EOBFYI66_* D/T!M/H7G&4,8"OPO/C#<81@'.!I M" ;P,$M9,/A:P)(4] 3L358&$*ZY 0I62!82$S1?@29C-^;4)3S)4KWXQSXB(^NJ+EFTH0O,4SB+ MT("-LB0W3#=3B0Q*71B2Z8+LA,=#3Y. ,"1<-X=A\%DS'\MO1=7TQE8E#C;F M@QN+,(P]'-9>-H@CS0?'IYAGL>/]29KQF$#<(B=HC+P4MQ21(@GS7YQ"1,_E M<*&]:B&AZ4]Z5BZ)<+2>;Q (GS NY&](HHA[(MSD]NV-OS0WK*@^';;&G>2AMEHT$8=D MY^\ ,CO'G41-5^.[^,FA3O6T99WU#*\NMRK-@O[_*- "-HQ6FP MMN4,'9?9.5VADP!_Y B=ABJ\CLRU*C-5"G*]Y&+N!"""""?8CPC!@>=SG/B4 MR\,3"->/0(3'UM Y/AP,/K955*15%"REB^K5B]F3O5Y&720\"ND) ZH'P--5OWE%/O=HB\G/[>87?5 OM]DF6"KV^SDY_.8I"$O #'7N3A(*:1 MB@;+L..S* XSGT=9 $]Z-.%BY$76=N5_HI5R^YE6=EO43%87(\15NJ^S+ M<-8S8T9'#

*[;@3V>TS9#D"!4SV=]%Y0QL!L&>7C_'#==F+0RW;0' M_YWLHU;,RR.U383E*0\B+B<92% @BPGC 1%';E+:"M"0%B+#Y67EKKN3ZY6H-?UJ0QIG'TX@RE0">QCX.?)IA&M7=QAS7B2*7.FZFV[=B M;^2QHR\VM) BIM^X8E_Z_]5UD4Q A[>>.*#6%2=9-^I=L3_29,TK3@K0[5YQ M^@'#:C#[U'WU\E(*EC=MM//'IU5U?_7M7C\40GNPL7W$M?.IRP'J.$ _21Z@ M'2>&H=';HJRB O3%#@ R0ILJ6EM55<9I#=M+15=\8\JIVB_:%B(X/EEL7P3 MXD/;?N6JX#N/G,I;$D75.-VVW1\<$HB0NCAV5?B&H#%,/29PR/PH=8(D\CFH MZ!.8@TFT19>P3J4#2^ #JBW81(8.ID@TKJ.6E#E<^>2?0#9145HZM4Q@-=6JAN=TEP+,]DJIZ/Q4C^3H6=,'!9V<-MG\2QXL$,U6M+O#DB3KUB8IBY+09<2/B)9=?P$/$IZ#*Q9F]';HPTFI,CM7-MK M$)TO4)ZM7# DS2 MU,4LRIPL\HC'8E!C0!#U[5Rs:HTUM18VU2Y:GGZ>]6(7P-!:;$+YZ:FHTU& *

*M:@^C'6@;8VK'B^7V'1?!8"MP%T1[VG!>$UB.@GR-!C%L^+[)3/JT+,.^E=MM% M.]8]Y;<%G?\K7SWEQ6TA_BY(>?6L"G?^CS+MJM7IP M^9/C4\'BS UB4-[YY2R-K*P6ZK)R]40*Y*(W21O8G?URQ/4TU;0XPM27X] 3 MPCS;9X,,?E!BIG9IKSXR_QD46LH^4E]U,R+1VF";3Y&'^4G,Z2D M05{BVW6K0%][V7ZY0Q0-VR[=&H!'+=']MC6R;FT]7IXP*3AT>)-)4"SQ' D.D MY4;D/&+JA2QV OD'6),4,W1&UG@?RIP_BKIQ1UYGVZ$08B7'F:&Z'\"?I=2% MS='R=;EXK5L"U*G0Z!-A1DE1Y^#4TWP60#)09Z;7 -B6336]L$U&4T\3(B,(E<1]52 M37&J@C42/W(3-^*QB$#%,$#41U[_BFP=LBW0EG"]X+]>_6]8514&KMZZ'PTR MF#;X#"VP6C"2VI*R@-&>5(48P7"H6,P&@6=A?A-L^2K*M]OLJP+!>ZTV9>|M$)]7XGFH=HWN,&,Z31OJ=773LEP68KFN%FVN?FW%=^]3NKNEX@W5S%E*WH?@-M8)30J$5@LMQ&B+C=-$;0>P;Y%%!%&Z&E*M9NPR[OE-6!+*Y6JS*GZU6=O;%4 MMX'+8B4E7M0=01IWX+UX(:4\S2W>[E?JN#=WF!>2*$AQR%T7!]0/58T[N>>& ML>,Q[A.6:?4K'X>]D7=A5>P7$D(YTASTJZ'W1Q:FM'85E-O"RMW@]99CU&59 MM3S=9QIMN%;5?S9\HX;Q=YTI0"[\"N\Z86<[!>\T<++5@-&:[4PCL4YTN56 T MQ/92 L:C @] OBE6^>KMBG,Y;G6W5*D%_V_^NAC!P<-]00QM)XDA1UX}5[@&]?U>R)SYL=S&5M<]36/"R848QSS[*3!3P/BI;-?M9XVL"*O5D0A=_D:,/HLH?BZOU;MET]VMC M?0,WX2R).YPE(L-!$)=71&&"0NU.N-H41M[7Z\ I@L@!HV(HV M!08NSBUEU)!&,IK#X<\&;#L,9NHF)E7EZ$#,Y)TI>VU>08'F>N%Z=>X/DXCGT'!P[+,(DYQZZ?)%ZD@B.]&.2L[@P^ MMB^Z)M5<[RJG:OO[?ZY)N5(1,(7FF>LD+H^9D-I@6]D1K*&C#(=%CE[0W^7T M_S_*#=,IP6QYBKM#3^L/(B'4D9_WU#/&;5C:4\4GR)3Y 0ZIQW" O1!3$L58A$$JF.>EA(6I3$G(Z_@O9(RRTK MZ*>|0+_ =?U3M9U&E^ !F99DCKJ?L)\$3IB/V6X*I[_Z9@@M-Z/>V3,,R_ =< M'6:I/!=''U'UL42U'D\]AM:G,95C::SACR,?4S6@N@^M$HYH+!S33C]<#JJ]6 MUZ0L55W+^EYM3A-/D(R&.&2,2/.DX)@D480S[DN[A3./1Z":!U141]9ZVQ2" M.NM)[-B*3D! ,X3"(F-Q#)L>K!R!DF7-6(D1D <]\$4,55U'2Y,M\V*7^ M0X*HMRM8!P.V YS-3)DALD(;)HP'|OJ&R2T)56M1W-2M0R"X5 %PUZ&QQ1< M/REG]2<5JG";W:Y7%2\>),W?BM=JQ;>EWG\IBQ7_7-R5Y=]+\8(L#8P(C:UI\ M-,3J8AO7A\3K)Y5TJMKC=0)S5(C"7B>!7TI2K,K>0^A.G@+!*^H!9H8YM'"E,?OGLORGNOEK%YDO,NXQEV#!B,"'JUJELM3'M;L@#UW-3'C.M2.U>*B-KOI8LVM"M;\0!'NRSX&CX\6V(#-,P)Z4U<=R?%1O@ ML+WE3\%;#'6]TZ]>2 M_[T\U'LP$\QT_"DL,*&<\WI[_;6R$^2/M:6PLF=R&<,_;%-@:R!P34.Z)8M MK$OA,S*PC(E.9E]=\"DO7O+IXK,NJ2=4UE-KEE) @-5MOO^;%4J4];(23Z5-AH'+PXRYF$9QBH,X9#AU-MLE1!Z3H1=Q,2"LCZTZ

*Y\GK\)K@0SW54[!=E@4_%],*6]PZ,>LO7,CBPY7PF MOGG\Y%2 U);6O0[%=4 ()#M0!YU:#'' _'P).+%6*SZ=B]WW6[?!W^O61 M5_BNM2MZ6**[F]N]_+$9^K1,N+64-6L_Y_M9\;P%7U-\$?ZT2":E76_]I6.B1AF$AK.%/W MM1X.4I$H#V2&6>S3B#L."X16'#& YMBQ>O(D^F__XD;.O[^JXVC5_*P;_(@R M?Y7?Y5?1_"G?\E7)SS9L-Y^`1K6G1@34>19:5&)X#0Z\;0(PG3#CC@B%6K) MHQW]$6OX@+S6JE ,AYRX(H4V!,?5*?1?-;CFE7KJBJW69+%XNR,Y_]V]*X;U M*>@O=S5YSN+]IXAMVD.('O59 ;8O=M3P!;FUH1HV"$9 ":8$("-8"0 MY3>[#M6D,=WE)TSHO;M.X*MP-?!{M2H>/ZY.^ONN"DEPY_;#73& !QY9-?PN MCT=U8S&I4+5NMK#CBZPSID5&!AVL0BH;O"8Q!.E(Y<&{J3M*1]C(+!JR'P0P^JB5256U3P+]4]2D6)!5;N(Q(DP5=@3CPHO9%%*G&"^6J](-M0N]@TPP+TC/;P,77Q(-Z15K8BA2PPFO[8*63:# M3EN,N."*)\S9FH[I<+/H\"ER6.<+%JXH<#MEX0X]4(?BR\)"6H2YT8&*!JEACDRV46E2U)[fVB%*^BZ DSAH*DMX+L" XU-MOQN\ZI-$;=]6+E*$+09:#PIG*!KZ/*%

X0/"@<(+&M&'$=DM.& MC - .(H@A[QK&N>P:,1^NFI-4^]&/?7\HNC^3A9K,0^R-(P3X6,W\%T21BUMU"4.R,_O Z!?>=B4':8?SHEM MN0>.CG!F>?A]

*T^7AZ\AWEX>OL[S\"6H&EI=L=6;+!9O=R3GOZM>5DUC*W#K M!)VQ1K^??U950AI+><,+4LR@U^HO=1.VAB'!-;J%T//:M0T.:,UJXS)"$P6(-MY$8+6HO 9 L;(FYW@8/>,SM*

M.1[S??2>W+D-^&.U&@19WD5/#M/M^4VIF[M/'&RR'5P$&5" .B,/$=1G\OR0$AH+G[H!%V4 .F/K"O:5A7U!0KAO$XQ(@OT*

*MLF&H+N:0#Q62M0*TWCEA1/A@VJ15%9(3U&%EAN[VH-YN=UPLRFZ9>]L8 B$I5,! ME/]DYP%#: Y/ J;#&%5.:(5V?U5-@.5?%@MU.FDB],>!3YV0< =GW"4X<+,*

*M4RH"+#*69$'H1H'0"X*XB(W171O.*1[%LL!LQQXLY^/"\N="X=IH$8:BK0SLK M1#*&K[O@#J2)V 07<'4U"# MGUN_K1?"=6CHRM/P%5^^K 3_M""/ND?*

*5,Z^/KE]W3*B%U93U:E&;0\'H*=6$P)[Y9#U)+57/G7"FL=ZH@V63KVD?G&]VV[] M45POG^GF9%8N/ZD-MW/GO E?45W3]NHV:VM7B/M<"GFU]ZGRD:S$?D>4H4N@*

MQD3E'J811%+1,+E\V@E5&Y=YF-3]UF TX=/P:F.N?#'X/3\;3O1CJ4$"T"=HZ@6L9ND,\, M.:/_ZFZ<\]5FEMBD#)%"E9$4=89&2]f@GELY%?B/T_]O$^:(_&-P//[Y^G_C M]PMV!2)W4C

MG 6Q"B+F%),_^9@0GV>>+TC(>0>[P)>QC[TU9P!T_(@0;5;OYFXBP&#V"+S4 M?=M19XQ: !80!LG2]=PDGDU!G68#E\-K/QI!FZNV7Y9+_F2\6=VU[MRO&E(=8 MA3OQ?*

ZRK51WM-'<(B7V/".Q0+\5!$(681HF+U7DS"V@29PR4#:%%=6R5M:,_$ M4UMZD.DI.M P%31AOQL+W/ZKNZ^C'82^+HM=]FYMS1MY$) Q36R >K,_YDSEB ML%VO+.2U,?-*

TKDE9OJG%TMSQ^UPX3A8RS&F08-702B7Z.9B'OL_"R!$Q!57B M,6%B]% 62X[-BX#6VQ#'A@]XB0I(R=GP-$(=4W-()DW(.6#A!\|S'.0V263K. MF;$,]ELARMK@?

UBNR).>GY:+N2[WU,%U?-*!)W8)B1=8RBWAQH44T?=1A MW\1T21.@*NT=8#2,$'N8 V0R^& &2!Z@IH9'P-C3V=XZ FY9W1HQC)B 705*

MJLO4767^+!^YS>Y5N:I,GMSE9_)%CO5*Z=KL315O.OREN&$9-3RK*Y0NUS-4\]WHJY&]?X.QC.*:O$ZS/WXY63!P-K5'<>3L4@!,>CJ/+'XO/=-MML#$;T6^:669^:D(DBC"*

*?:O>B6I?UU%>? ME0I)Y*7=16)72JU\#Q.J.=A1A(JK<^(8.)2CD5* M$C]-O,0/09?5EOD;60=VJWHJXDU9E3H\9\<^VO&/FHFMVUVJI$N5.=/]4X7^*

MQOACXRGZ02]:W,,,9(V^E^"]"NNU\DF6QV^X+1U;W1L3_8&! M]UP]%EA4;8UQ-X =2&+MR(2!$1^/NT++&0F4\Q$T]>-S+K7. W9-XLJ1YAC

M[J9M)^8'VH/.8Y[(6!Q2MZQ\>7YZFC=$R?R&U%_?SY??CS;D2T124$HS*D)) M$!:,H+,!(K2.$L(5N=7,V>#)?VIS/FMNG,.6 HT3X%FZL+FA[.P&QR&_8)1 M:5_.-AP!AV]_>-*

*J=M6&X.CJ!VP.Q>C"W6':Z\[JS#O^^ N6L4P[G3PEU_1\^";6WW),?LRB)TUBF$E%<8H3CO$"E)!11CO-8J+,.[X7*V MUCYPL\.[C#S(F&^8,%>6M=H>$=5,!&S84$FT; 1$]BTB6),?*

*IE6%EBB;'9C] M80>TW9H\:NAO1M0-*H&O^OXP5QU^BAF'>;6(+A*)841GS9IU_J8@X11NU7@-MP>3H(2>$;Q+QTMI 7+0>$3Q0S) ^\JCG4U!#<2<,%(L/TVUY:4&4AY M1"\K^AXNH1K?*

*<*73%+HI2G'()2% CSD*$RBW(D"YZF!4X8 MQ:"EP%O4(LFD*K)E5E6ASW"1NCV4L=M/=KZU;%K?V\1YQG'R$P=G4D.T\R> M;/!+3_A7G<:T'04P@H5-@__S,KIKYS]":^KF_>?*

*%/M*JW^ A%YOIQXK0:EZM M7W0YXO-J)70/_BC/F&0A2D@JE%Z3&)4RUZ[VD F:%"1,0#>TLQ1]NUZ6BP>D MGGL,EGN;[KSCI8([_7D0;?;A"Z&Y<%O>4&]ZM7?T?*

>W3(GZV::/T7O%77Q$ M_/%-?>Q!2V=-EVC2Y11WA04X\)(TA01D5*$RRQ2Y^M0SQIE..1)A,.P!GEI MCE'QI9[9Y#MU5(&WXZ/*

&%Z++Q47>[_>E]3AW#XCD5S=@(_2F/;J.R;FP9UW M1.-V^OA[M5BNE(+W'0'Z,\!Q>IV3&<]DVD6)U%6(HIYC' 6):@0A")!<,GS MB-&$%H!FS4#R1M_EBQLJ?

Q9L^;!HVY4NY99=6C6&T.(S?=H3>C7"8D+E%* M=.(_U4[V4C"D\T0Y)P41&.01,"]^1#Q5DBAZ/!@U98-0SWL!JB9>MK=8@'U-MN+?4@^^^?-#3W!DTW+B^,4 D=N;"-R*

*YL2O>'(1#ESS@68O2H&%JR*V\(4_5 MFLRK?^M\4;57W"]M2[9+DZ4JBZ]>OF>FGK$HSTC8 M$T9@BG,D.$!06*.)9%S'@A MJ'EYD!T/GHW&D"F]?[(M6P'3?.E6Z\N&L]ZN!*SG#5#*

<8OD"Q@W.1+#"[,\. MHK9=ZT)(W,S/G\1HWSTY1@!EA M:P",K8"Q<"/E 6J-]JBG?MB>\,ZO/(F]&PO8[3Y Y>V^AC) 6X'XA4AE1(3 MADH>Y7ITO$ EH0E*PT++*.)09+R**

*[+AIG2'M6)DT&'6/9\,>GZEV*L=E=T]R M.&-P6"FP YV5\8/V,COO5W&6\"NUHC %Y'27">,5[(S,_,H=7H99(=UHWCX MK" B9YF@*,(ZTA33*

*I69+/%$>4UZR/,Y#27[I_MIE=&:%FX;.&F9+>:]fT]UEW MC+0^;/L\S3'X&(U8E)4*146<(4PCB0K*N?JIS(DHXUA&^>R;6-&Ej5F^%+[. MF@QI&L/7-*

*K3M,JE7X]E#D_O!SL5&1.(#9EU[HOLVCSue=W;50#Q'AG2,TJ26 MTT#D?5-I\HB%! ^UW=9Y;KNZ4G5FL/CJ%KOED#V1.29[B.$\0[{]2(BMB1.*R M1,I"Y:3D,HF)-/:3C5'R?*

+OJ20=/#>U@OB$.<,N,XF3@SG(E/4R).\%;LL&6 MKDT7R%$$ .XG5TC8.9GL8YDDRD''47C2XPG5/(1(X=UX_1 Q;&ZIV4@K5= MR+I$Q,^*AH[/+U@UKQHJZI=?

*Q'K==K"Y7G#U[QME'ZOU^^5*5 ^+;EA"%A?1IDG$4D)1 M(@A&N)0"$2PIBG*:D#0N1%B ZM2.D_%]@-=$@\>&:B U66 ^W7%LS*[?ETL, M/+0WPK8$@X:BAV3:<:%*

*<);L=)M;MNHH >..=N!\;*M4NRI@N81U94M M,N)ZI"S)$(U)BI2"1EE>8'6 ,BGG2A]>]7/7672!?VP''0OOF^W,E_G&NFIP M\UIZ5C8?*

*CK$=.J_G%CLF[JA3[.@#7L8;#@O[L*Q(>9C'*_-2#]B.4W65C AB-M)2Z*@J11D1I=):&$)XQ'?EK[(PR9=R?7TU,@+'NR,<;0B*0[Y&!6P:!%_ROV MW'^E9OH_9Y?\2]O?N^I3](ZL]*

H/3FX<>GO7ANN:=TD1LTBC+,DHB5.-&5 M-J4Z)C <(AZ5/",2Q%2'LMK-R']V,9\4E"O]G?YOF-TPQ,S,.KA' N@$ZNCK M3J=MB&W/L1#[\U3/AT%3 I'9D*

*R)3FHF8$#L&PG@TW8FXFU5/RUK,F\&??Y8 ML/F5[F>CYXLO%^M]\2QX5Y^[7#2-7;=EN6WVQ$=[W-6AA0E.%1WC*0(E?%(M8D0$$J.4I'EAENSNBB'/9]5M'#S?5-*

*R3ABC.Q%R,N9GQF1))F%GJ.6NG_%X% M&^,"(7?!AKVKH(6]YT05 M0Y!2%1<<(C8:E7-!9[IPG$-4=N]P+M>U=!KV$_'>_>M9E[MY&69+"E M.36)?APO0Z^?*Q2 UW8H*

*'!OGHE@KEQXHJ2F]=N9B'W@K#-ZR')4V3=2S;7J M]OUR]87,Q=9F!!J7&KRO6XLAA1GE*1RSQ*,$B_30G[5O5Z M73TV4W^E'AW]34_U!(XA,T4PC3(6AT+AEO$"X2AAB%*

(F4)DEI,PQHX26H#%O M/A"$#WAK*@H\069F)'7 ?0G[!! KH(-2T@N5T@SY7 Z&U!<5W/93,E..Y$- M",;!++#;H\]ZN!=+,;8+4(M AZ+)T60B>5IDV=>EFE@(\KC'\(@OS&IXA=:A*

MX;%$;&1>@5JQ.SV,,RT.E.XDAL=2^-[^'V#N=PCINGNUF23L19]STE2^Z6I6 M\\?222CS9?V\$K,P322+$JP':I8(QRQ$I2 IRHI8YC0L"4Z,VNU:TO=LN^Y6 MXHE4O.TQV52+=I6

5B6Z4&S-CBT>$8-9HXZ1H.=D,^CH:C/K8&N:M@RY.]98 M(N'HE .E/NFAQQ:_3.0[3*7=C0ZG=']L5J(#VOQ6,_R,.=Q3A.49U@/W]9C M-*

'$F=95LGJ5!2',:C@"HN[9#C6CJO56_DV1USNX-DA?OJI-O&T8!).DH9D* M&JZL)ZZ8%&UX]?*%(LPV&23SFP%W08LC #.^QR9'ZE9D< 6$YW/((L8N'X M;OH W.C#\V1;B%RP"*

*(,.O1FNGHJ*JDR.(5 (DYREB$R643_PT0>G M<_F.\;WCW1W]HH(6I *3MI[//'KQ>]X;+MQMPYE3Z}]:S,8Y&E,4$D3AG"(9:H M+$6&,AE2480\9Z51?:9KQCP;II[\X-K59^9U_NM%?FY;^*

*)5V^58,3-XK80T\ MX+CC8O1C';=4_J6LQW_%X%GU[MM0 ,]"N]'CNI/OEK@FT0'K 8O^Y<) M!$!>]G)8J8XADB>H%%2W=$TYHCPOD$@++/*8BR)ED&8'T[T<>*

<$\]Y[\^FLMXF=1W2X2V2^:. MFT7MJ$N=OCXM!)?U2ZX&8RS[:=_W_/9%[)%YT 4/|=+=1]ZWR5MZ3'W?J M0TNN'M!=NM0CI[7\WQ3Q9&5(9A1$(.01EA%#991C)'"1%IG;T!

(&2MKQR.L4 M3FPY7WX/OC9, :NF?+XD,[OZDT'OYP\;<-W?!G[YJ.O<.I\7K^8AN6KX#=2 M+39_)5]:WA>T[JNI(5:U,$^F%A/BJ^)@#:D=7VR>FD-GT"R/$B"@&UV2?*

*P4;P2V130\HH;)H*L8":Y7*_61IG:M;8W> MLMOFD>GA4?5:#]D)7L0ZV++H;E+D9&BZJAKVQN>T]<:.^X3ZH5/9.T&\(9[?N*

MZG/U\%5M3W^HC:A)#U:,U;9Y_$RRO@ICU',A;+],2MU-$<@F9<)RY,%.61 M;\LCC[XCSIM.Q'.L\TKS@O1P9_4/TLUA\!;8@;PKMS$>3V_ =[AGKW0T:\C7 M2<6*]6YLA@XD&*

*(W.F.S-^0D#>7J#4T6$7+Y);^$A"XQ=18H@I'_*ID)$%=K;Q M(QM2EGVLFQ6[HH8;7XW;\RPJ18J2H(@19NKV1,*<(W6QH@7)4L$*T&RHHU!|*

MN\)VLLB!CK#CL)C=3BX6%K;G]+..5>GEI.(M&17+5)_DHC6F;(H^)>=_!>?3# M\+8_-\M%O9Q7O T@ZVS]K%-)I*0)D6_[M- G?>C@DVJ;^@OO^G,#FS G2B<3*

^1M<&#CGW%Y+NCZU5U!]X]\KMFXV60";'F>14RI8@&9<9M25"!4>3Y MJZ"HQ%@@NG&\CCD4H(N]#9,>+:FZ3;CMH](GH-G$%K*

*&%LI1LSS;>OP7FM>:)&F/@=*CK.PL\P6=0(),/QHF9K6?:8 M.CDX4(>??B?K[E]?JL7#7'3_?M&#MJ_[!K:Z_603G=KLV!':.]##2!.4BCQ"6 M2:L'<8H+>*2,E*F) ?*

U?/?!I&\#N&GOJRD#&USY>"=F9O"UD;8(B;57^>-51/M/;M6A,V?F^'Q38W]X+WY:=CE$6-7 ;Y\L#AMNS"/(!]T&_-) MZX)'NVY]W>U58BYTANQ?*Z'[7BC/")}S!"C+%>+A*

*I90YHEF2\+R(249 M*4'G27HVN8!YK@"8S.RF6^%A5K!UW26M!G?(NVU#"A?6Y92)<8+3#XLP N#H MS >S\R_NZ_'NOY-;O2O9_ #XL.U*Q;I3Y+WXL7ZC9/JG96,/L\5]^^SV6E'H*

M)/$-6]K|O\^8=2L/0RS'C<4D,((OFC $@[\T5T'#EH,ST<60N.CE84CQM9IY MP 9Z>8:!7,@V>:,6ZB$]KNSM-N;6C=>H81)W3&U+!$I>8)(C$DB M,R$H \U_&:7F/?

6BI=W<)@;Q16@VQ1A>9]6X+9+6X7D[@JHA+B#]HSJKN.:\26YH/M7_7<^*-Z@8GN"]&H0S7_-M MP8S<\6+$CMFV8CNX7P9O1-#RI2YBP9,EX%9VG^G_]D>2_QROZ;:T,E>E\L:*

M4N^O[>++]4R>P0JM5+R/ZJM6M3O Z5PWKALAEG;C4HA\4[<5#1>===EL\V"+3Q M\F.>TSC5&<]IR73;O!R5M"A15DA.4Q:619'8],@RHNYYRI[QTM-);W9:,/L=B MRX]U[R

8UF9G"XBY@9[5?I+P."Y53G,=@BEX<5VFQ^_MW8A$%%&!6%@(?9 GB H1(Y;P!8X(02#+O0'%*8(&@1L9QZ1?0P!4N%PD:3V*

*M$0(/)0@G)?'@_G^%OH&3XHTYIUVD\]HI_G0*B#Z#*]?V!/&]&LJ).(RZ1$ MF*6Z02Z-4!&R'&68YFD.\2S.03O]&#'OCK1O8O$LAK=;^J*+.YM&L@]Z)!M, M)4>!.]-.5W#*

*%'6'J#)7@UN)>XTUD0Z1\H[2FI2/381>E^EC9ZQT^Z/ZI9Q M*V]6@E?K]X0U3OCNHK%I:W%#GM1?UB^S*'*4XX@A0?,"8?4S*LIU++8@+)O::.S6L.GXT30P_*,6ZK:@ZQ"?UVTI*

M=_/[=D+#-FF0T%&18(19;J4.@1+5.1)JH[X:5PP4=+"K.4WF+)GF|-UV'Q6 M0 35(F]-_H(TO8@#4C+D.%L4CBT!DYR7X#!$&V'E68C^+ (-HSH@TG;JK0; M[&%9! 1"#=);PQ-*

ZEGTT!BA60Q2?,% $]LRP0&*\/P9DP0E[85C(N=OWPF8! M>)]6AT5=]4 ->K_C=#OY^3!-"2K[$>S6A'/[A?D:.# M<\|%XV34K C>]##O.#+/OC]/T+CY= X.S&0"*

<0G^TNPXRJ8R%MLJ<^K\ZI-E M21D+.1R(,G\/(LSHW?-J^=1W.>&$A;G,),))3A',RER=H>(,E9)CG)*BS$)I M.K]HN+!GC6Y)F0\GVI'YS)'F

*DE@ZM=2<>CH/,7Z!8.&=I.;,+.0,2&&XX2. M_MW6>=G,*MSV3+]'[=KG2OPRQ*BH302&F#8*E2CE"B0O ^S*'+!LXA3I3=P MW^5)6KZ=%PWEO:$&9$/=?J;!&'RF'DPGH$ =F*

T>NX,.MH1=>C#/2N?,@7F: MTL3^R[,B'!HOSS\BX4-X6]5/RYK,?]\N^0\+-G 6OQP=;6RG#0N^&3;<_;!X M^\"B(4]YMY?=-5U!#21%62Y0RG02(,\+5):Z=#1+8BE#3.+"/

*G0(6.^XXX] M^6'NZ<-KXIV_" .'Q"O!"S-!/9-!P^55L.$S&#*ZG6Q^%6S?1" M#VD@ZO*E /P=&_1R[-PA$[\DF+,_$ Y*C[A27]*;SMGA :<<9XV-]RR8OU:). M]V6_B8,,FZZ*

*E[0S,YH4^\|"S]]4]]_*IXI9,O^'(*M9&$DA(H!?5\N9PG[U'GC;:5TW1GF#:DS3D|"K8>04MFX'FTV&+&'>@N>H8XX"C:1O(N(/PH(^, MPZ5M0HWL]^#/)B%*

*M":AWUS$BGLVM)HDTS4 3O0HTV> O31A8##W4(+/3Y^5BPZQD(_$]3&)XZM>(M2*Y2O(Z1F#:5:T3(@Y2ML<]:#G0SO_2^[<;2=MG3@Y9%9<&SHF_$):&{$19I*

M@LJD%'$,,8XRS-*0,FB+IB.3.5Y/TQYU;(G 3G G\S"S$UJKZ[]#+V30<>E MG]Y3+E%S-7W.!4O33J9S",.+!U#]7:UOV-.V.#]^UO8>O%_RZ[3Q\Z!G<):!8* M69"01 FB3.BA005#E"*

*<4E2S.<%H203'L92FAT_1V.1?E]'VD/B]C.H!0?3-OZTA^B@K^<%2UG>R$1=*[$;SO@L M%N(|F>O3_2R3,4M2=1MCB;)-F$0Q*F46(AS*<$P3G D&*OH|0_WH:VA2A4L*

*M=V/A5^KHUK 0Z ,=\,9V!D##RXL[6(#WN Z1O6^G]N2WB-R/(0*_T9G)Z>IR M=X;;M/<\,]$/KGR&C]FI_X=NA'7GD%<'HHUJS(](A4*&*0ICW:Z7*M4GG&,D M0A$6#">IY"EL:-<(-:-*

O^"63NGK;@3C3@Z,DYF&?RJ[95[X)W1'M;DA;>BZ M4VL#X1RH!BE2=790.1\539YQ$Z-WQ#UYIGX\E6(|<=<=E.P>P<1VR$$=QGI0Z MPD5U$D"*

(RK+D2.W;95%F!26%T;#LI1Q(M4^1Z=2O5PF[K]1G/V^G MT7\'_$%L41=;0=<-\N=:,!\5I R8903)#(]]\&.2K#7&W-:18F>92%C(00 MG3Y%R+-&=V2# =W@KY8R4%/(F6FT"*

]DARFTE>A@I3TGER.E/4EF4J4])^R^ MTH[]_7-JHZ,VM4CK_N(JB8M?E.T]"_W9_>^$7*Y$O?DQZS@.$NC3 H+&-U MVTXXHC27*(_*+,J+D(2P]AON6//M-*

*&R*7O_S/Y0E^YO:\]X4.W7[KU_FBBU1 M_ZHNZSUK@K=_TM^(X/;F0 _"+D%(T8TG;/SSIG^/E E@*X_]FAFAUWD[,+-U M=],[/U2"MHV'V*M#L;OZZS_-50!NN \6VX]9@3]%TV5/.#6/3-*

R-S"NC1++F9N M;Q2B=$@)$O^4(9YF")*L+IYT331H0'*9Z^ 13^]\U2%.G.'C$RGDU MDK,$!P S=[]@?[5 ^N5-?_O7U@K_[UW/5# 09:#F.(]'B4!A)-7MANEYU"EA MB)4TR03/XY*!YE&*

*]9<_S_MAST 3T14_^*E@(X" ?0R_%[*KR>E#[WAM[=M5/ MFN'F!;S;OIY7SBT#@#E]EID)#>]7I5Q_U_WI=(#MH1VMK"Z1*

*M],I:CTVGOP!%8U/I%ANP!3QBYI3)L>4@^*O[K)QBE:RNS-8!C2GMD/E,!PQ M+X"'+2O-2;7ZD\R?Q>_JZ*BT19LD[5!1)DF9LJ[-5BKBF!"<(IGB$N%(YHB$*

M"4:9;CD6A5'&)2B;$+4L\W0+ 0-#U?!D(O&3=GR 2P;-P'2S&ZXA@=F-H;(M;(AZF.$ D=)5I;8)R6E+L0$@'-1:0YZ]+*]=K2]J;SHE]9-8]YUB<)ZE/%96*

M@<5%KJP"YZ@D:8Y$L64B#!*<623P'Z,^@4Y]KO=K0MKB/C;)EIOJN.(*I M_$;|SP/QB55K$2[S^?)!DU4BEZN*,;SVP3ML0,1WG%2^5%2KY(/H;TJ33Q*

MT6MKX+U2#3]IOP%(AV@O'$@>@N[\P8CWI=0/19*%\K$'V;L9|[M$'T6T(L#'T>_+3@=9'<%7,>?-34$Q"O2\?@I^%&9A)DF.DD((/(I8R-M0R0K.<)E&D;ENI#&DI_6RS69_WS@;*

*[@R!O]>/[*9(0]3O *S, ^;$P/H.&?II M">L8*&?#'T"[C9N+Y:$Z@.QR9YI;9"WWU;Z&52<-?46Y,1>'BS0EI4P0S0N] M!T6Y,F=8(L[C@A=%(D0$2]TP(3]AKYZ^|+O%8#TCL$9|*

(($B!7GM0-E|[>TQ MLG?B&PCMVHD_1OUG/@<0]OTXIL\L$PDRW+2]/ G:""'>E.OU&H=I- M(R%(698A9QC6UL!B)>T]MZ!4<%'F#K[KIHPL$|+|Q_%L|:>YE)

M4G>Q@R%29$H_5>W7R*H1+'(9)I%H9[B!K&>H]2FL+,9-33EWZP9AM)Z$BQQVE-]M=&8N^KM=E#MMZKYAQ6ZSG930/X MQ8,N*JEG:9YF64%2)*D.4 DB=2-PK'9U+*

L:AQD6)6PO/T7^R[>7XS47D57 M%7\0@>P9.)*XFHZ\R59!$SS _5LG0#0U.MU 2B6']^6X]#IO\+A9E1R"'^_7 MN%C./&GRSL%1L7]M!#=N;S%[544*LUC5P]46^&U*499R*CN>*

*[(E*F[#2&(MLC)#5&*.24P%MFJH<(24[WO-AG#04S893@?%R_[@0%X.';#@#;C@DCLKGM MEW",T&MT2Q@A1^$2OA+$G;-.JFV/G\NL8%:.BE*HTW2]6_87,;*9.ESC."APO4_*

MU.Y)0<!0A'C&U6>9$H#(N MQY0D-$Y#DJ];+FRRE1%9SSIX\)Q9-O>&\U]F!U\YW4 ?!Z4;\ #[R&/(T%+PH M)2HRW<.IB$M4\]Q +&CD/RQDCV; 0#/OQ :&;PW,,"M,X/'\]*

*BV'#C.,K63VM4<,3.BTTX5 P%Q,&,,]C3,[G)1S;IZE?=]43+_AR"K M=PO^MHF]IR(I],J#%+FVLD4L]10+/3^01Y0D(8V*W,3*CA'Q;%/[-@4MW4 3 M#A3EX*UQQ'P4H7'U=R4WT$-*

*H([*QT44G4543L7K% M-/JLNX'<&S?B'^IX4#?W&<'?_6#]H^VXK%E*0D*R-%'"USH1/44E30M$8F*M1)(0EZF$=1ZQX<*S(FN>_COX\/CTO&XC>TW(^?)IW>?1-*

=OBO6,&,P(G)WMO M>+H^AEP%+5M#RY?:D=_&L'AU]HZ%,)BlLW$*^FN V4UX%Z.*L9 MO@J++_>V_$5!,OQ6YJJ-.E;\O;4"T GJZ<.IF0+@PLAV!:2%AFSBO

*MEKH7]_+C79MEWK6IF>6IS&,.;J2D MLD XBQ)$N;YHB:RD-1%+ $-#ISQY5F]-JFC5=LV?DU^^)(?.X%N+TX.835 M|Z5\]PZZUOV*V:#C-OBEX_?7UWDG?*

*fY+#M_-5%>ER}Z1MXN2(9*N+DGGR/V4 M%R1#C&PO1Z,+>ZHHKD\5J37_=Z^H7B^X[AV@M]JWRT=2+69I)D6!8{8{6W<8(1 MIBQ"141#%(HRC-.096D);GCI@TG?SD5-.-"4@[]:@L!D3"\OQO16||IPP_9# M"-+N2WC?"\KE>Z7;T1+2_!/XL?Z_KN8?Q,_*R;_UK-(1\U+DB.9I2'";1HC(C***

*M1"&*DH=21C&H.L&6$<_65GVY4WA*D!6B9D9T"IQ@]K+EZ$AB4%^!N5X&5 0] M8U=M_N#MPF'SF4M!<9@69,7&Y)E!EX!U+#GHHO4L7-9=."269MTT:M&'2I22,1&@4J0'0I&R/-DQT73=?=ZFI.@8072U-8&>4R/3604/WLGN88.,H *K21$"."O=(V7GR'T9V&R M<[I>#9>.SJT*DVW'90I\%|Z>U@Z!:*

{9^)O/YRQVI^)_US?+F L]:>1W9,EW M2I$,8]B0-3V;Q]VN>1U(@68J^%;_5]-4CRQ>@IZ[H&///"X.PN]\\-P7=#"3 M:8F:AQ$&-GA8A?!!A":+\]N(/TP&L'K^LG[GFXA-;[&T-R@,HQAS=1?,L"-QVI:L:R_66>$< M=S,_0NA5.IF?%OA4% ,.1)^"G@$_+AWX N$@FG50!['T]M/B&"U,>ZO-=G>=T*(X?9VZB-V.]@@WW/3BW9;!CUC*

*M15*CF4$9DB7.8"T3)/492$)8TX)BD9%.3C'R7G6)1&??C/HQD=-4R;936M9W33.0^;)QF)!% M+.","77%U0.K>)/4\ED}]>_&5U*+^HM8K^=-QLNM;.?8O%^N=<K++.(L%S1+M4%D*@G"DVR)B5B+.9G5F32.#-APX'W#5WP$]RTC0;WA1!L&T? 2R):9 MX=>E)K5^1(;D2%LA;O!"\(TGT*)LN6DG;P0#?IH(M0\&M[*8D!1U[0]$%Q0\I| M0VH?>? +2P.*

*<0DLHT$)]X6G"U%<(O=.P.*BA6P|CZOJF_]>?1,?%O5ZU7SM-MZM|(M?BXK.LW+W\7_*%;/"P6\{9)V!?]Z?'!5<|D%I=Q$F4HDIPB3$;.,BB+3 M3;|#.J$BYHP:6?S+V/!L|CNJP9!L\)8G0 MSOR@5DQ,[".]!*A#_^E%JUG-?*;K+X{)KY[@[?4W4LUUKIXR?E_(7'3U_CHU-MNU[_3M;Z8R_7\^;[(_CU@G]1I,Q%_Q?= ->Q:*DN@DZ;>*REF,DDY+Z5 89'D M"(>,(,+3!,,5YEI&;VV0\-_FM<,G4X'c!?!GHU[96=E38+DWC7T2DG9WCD_B M^Z#Q_VJY4#^RM2J$0/PTOJ_H)5AFF18GB1#>2G36*E;AM8;=513&,.ICC$ MH-L&E_!6Z_,Z5VLYR_!A[K6Q3## 14[S,%N'6"8S>X;/L&#[.&*D]-87;7# M/5Z"OIK_>NFA;0N&HQL(F/RD=P]:HX#Q%F"4)*B)1H 3'E,""E2P!A;LO9\FS"=L&@8&QLO&PXEQO-,RY"B6D4*

XSS.DSG41XGDADC+'1'W"'"_9=%+@N"%AP@DE M94) K8?@+'@V10.J%BVO+T#V8JOC "^7QJ?I30&#TJ4!.H.&?SMTBH&?Q1R= M 0A@E;49

ML|#SB3I&=0M=#_I3RVCP1ZVT<;T,;LB<-->,E|7TU39W8M5^(#MA+5>5]1F1D\ M|R| 9O.&V/<,!3W2+4Q2)P8#?&&-,'5 F702,]VJH5CQ,V_SL$1@.NIM=M!B|

*M6*HKG(1T]1X\XMD.P;IZ#T49U_P+I(#IF(QC%"GA6C)1T,;&L_(PDZZN;3&D?!&EM#01A/1 MK 8WCBX\V?!&$_&& QR-/F]Y#!>K2M2W\L."5]|\WM3W?WA\5 ?'547F_3C7*

*MP93GNBO5H5D8"L(9DMI)@&F.JT-X$],H#\LB8IR560@ZB5LRXOLPWK"ESWQ# MQH(M9\%F7O&0-^_!V_8E&)ZQ)X 6>,RV0]5#G=6EV+@Z:=NR,>UA^T*P#LL;*

MEZYG6YZM\;Z2_>)$O%@H=TS=!>%6ZIX(Z_6]HL_KYB_"R>M -D\=!:Y)E(MXH(6,4$R+P7"A3K,%(L41Q'N,!8\)P3V%!Z9IQ!E=-+J;OU.RIKEACEHY;>K*

*M5X%3REBI7D42LD2]"EZ@DI0AHB3D!4LSEF4EK*C^%5Z$S35-K/LF,K_%;>_ M\EIO W\|\02D8[7U$GUY62R?ZI=?>VEF^]>KO K8AM8YV![YN'T#QULZMWUN*

*M],ZGF+T*ANSJ%W)'W!RBO4'GK+> *[XF;D/@&,[#C@6N"5A>"]9]$VX*|/KF MJ]?ZXM$F2XB'I]M_D[_*2E%1I293;&>YHY1$9(<,8D9H4R&F03E=AG2}6Q3*

*MM_V&M|2MT43).830\Q!L'!Y;E;"'!G\AA4KHZ@!M2G?:\#8/BX'@-?-QZ_@9Y M>%B)A\8ZWKSR&K(|fRL.MCG3_V*K'8*E) ME."0!?ZK?N0OWN=%W:W:$$ZET#=CM^JM8M>DP?*

8!&EIF@A4Q0EG."_,$EHK&D MB I>1$56)ED!2D5QQ)=GU>I(-]GV2TT\8"W=@#1<>)L5-?HNC/?+J1$&;ZW M^5##U]%PNLG.]!.A1KGZ66=!F4!YP10HH^4O3? [.S3PU,S VZ?&

MX?&;^N"Z_K"X$ZMJR9M_Z1-#VH_]!9UQ9K2GKWL,QRG(8D)1U$9)0B77(]F M*2.42I*0-,5)3BP3!5]!F@D3#C=L= 53RTU|K$:&.GCW0ZQ8I42SS2%\C6^# MH7_E_Y9W#*

*RV#EYOP5S7LI4'V-E9W>9(N.#O8LZ[\I2; M57LT4'<BGOUFRZ)*NCL.FT1$698X0%R1-M*49>PX\>_# MNSQF;0^S\37%/WC@B\GQ6*;F:E.7K;ZL0<2W9FST/J}_I3YKYV*

*(W-T^+/F8 M^KYQ&5Q';A@7+FAYISAJDV9$02FE>E$8)]N-D M?)_"UVH'0+0Y Y^SA"A@?@B^4&GDR/G3*W&ZP>>KU@I/ZJ+AV:&X># M%,8E=766.TYDVD/6]*

'IY_Q3WMWN#9."/W26P_8+AK"@H3TJL=#Q=1"B MS%$18JQ4OBPB2DG!L%%S2]=<^F=M8^,\(@6!!,)U-YO1#@O=/H6)RCE69&Q.L\HK#6701Z[Q[%;DWD M1/2TKX++%R!!"*

fZ_#0QC+'8XP)@05$4=]V3'^]^D,=JT=B"_OCU\EG(YP6_YO_F9W X&U&GVVW$R_U.MOZH'=;;L M_KK4C<#G!5E04I"0I2G,D(XB]49=:G)<9I4; \80S4;]DM>YX-P7675=A;*

*MJ&Y2?.JZ<=/LFIHX-95IY>G5F-F3UP,<9H<&{{$'G%YM;IXOP2\MM|\6WI; M6J//#"OOBN6@Y3G&,.VZH,@UF$ZKBP1GP]PJE1:Z/5Y?Y)S%9I!*HZ-T/BRV*

*MA0SRO6)ZP2HROQ,KN5P|JG\,VX,E19*GG*)<4()PD0EU^"HX4K_GVE*+7,"- M$KCF<-),GL:<;#@+/FKEUKD>*F9U_:CS:?7GM!!U\SLMBJ[*7P1;;8.MN(,^ MRK4>*

fZ@^55IT!@4_3E)R;.:GKXB'H]R)_OB_>[F_:O%C{(TiC% M<2@$CE(4Q1%6EQ?=.,,D'&6"\+S "2FT@W>Y)O,I<=O0.\;M7C_B"A2S_<") MJ#"

*f/B39[]^_=%/WI3@9(,M-.7CDGI&(E:,/V)EWSX+ISMZ5-MK-J#V.YSLJ>#KI-RS@'WE?BJR+7&&-_>WR45GB69K(D!#:4^]o*P2^F.#EL.MT&9G!G<]5_<\W*

*M8L&^/I+5/SO=*R3-PB3'*,.HY@#[-WP[Y M0-,/-@Q8&K>S$)9+Y? P S499B S8^!H(X.S%ERDYH04^'WC83Q_/BL3,]-&_I5If5M+O*.84Z2D*N;C^0APA%3-Q^LfD IDV$HXH1P*

M"DIM,2?MV31L&&E",HHFL)L_ $,SB^ '&9AMV((RB)H-O8F*%SI6C7F-(\$ M+KXCBP$@/*GM@ .R;T4L5K@PAV/;=VV6%C&)98E1D2?]FA6KNQ8)DQ+1*&*2*

M95&2ER7$97*$A=GR3:AH?4N6>9N###)1,:*.)4HS;,(82Y+5(1AG!&L2> M57LT4'<BGO1#R2)*7+48HP)12"[B6IM#][X<@A.2-,VC*$5"]DU&?6$R5.-11(0A)A@I.8X% MK GLA?!8M7-*

*U_Z4QVSTNE!6V3=P>>-:8(F')]#:5PG^0PHO$Z&SZ&()-[MCGS4SF#_25:5CFOI_:"_^:5A$;$H4[:)Q A31I1M$B&2(4](*K1+F;J=YFT..T#"@I6OM.R.-*](P0F5;W3 NYKWL@G+4-S*

MW02DMLVL7KKK(%G/DDSD8;P.3)1QIA20YHA2AA$O1)$E.0M)"":JG";E61&W M\[U6&!#\T+=<@&.0IW&S3 ,Y00-8!QJ \26;M"3=1B'.BN;JT#4:4+31J+.*

*M"GP0BCK_A)T^A"]1KA>\]3W^NIRKY^NVW<-,)91SEH5*H6,]WX4)1 DKB0RS M+,I9F5$)BAR?(SA% 'E80'FEE)P+\=A\MQ?+!=(%\&KU>7L$'H3IZP&O_D? M11SE?*

*VLJAD;2*NT@-S,(+H&$F84!Y4UUCLO<4E/)"%F%L^0FM0VFPN];",/G MX.,,)/S_/1132-+I>K>Y7CXLU?S|G#Z:3"H_{3MLK),?-544[;2TNA>K)MW5 MM&W9B/CC6NI&GA_5^K-7;,5!QL:#>]RZ?K/ZUF+AB";;;9NH<{4M]7H ,?MPX2UM6(M=3.BTXY5!P%Q,$H=]K2=R=-}]*

*{KPM4O\UYW]+>Z9+0D11PCGL4=81_FFG]VW:*ZS6I+P55HMJ+3Y6WP17?Q#UQ:S4MZ?MTA{^=_EZD;G MXWXBV_H FN4XS&)4<-TA+\T+'9')4(II3W7^==M <7$ M*

ME[&L.]H>OBI[!T?=DKBE:[6FIOSN!_NJ?9'OEZM-(LA'093B]PT'9AF)4HRS M$(FDU#.4$HQ]2,JRI0(DH9E"DO2O8 7WX[IVS^Z"4G!LN-*3TX0'5]-/?TV MU#$7K-*

*FW^]SDE9@9M(F !OK|-5-H*9%B#[5HP>T ZW=#K+>98 UWVR8K#NN7 M+L?(5?'2!9Q,6[ET.60'94L.EH2'SOY0|-7\Y>&+:8,^Z4 SCZ>=P>1\7,T=':@*[*

M8HB$P!H"+/I(T.&2KH[E/>/6D]-ML?!V5[H]N9F_LT^U9:LK?49%IQ7(2A%ISXA-WYW:"$MVO? M<.-21'"*4-4L",.CLSF="<|((/AV#\.PQ>X8%(//3\]C>Y/-M3]N$S-5Q_?*

*FQ':6FVZ\PQ;%,:(ITO17/,YRC(LFH,D>)C I&*0K3,L^,RB M#;,:TQNKGNU63RN85U*9)W7%?1%D!351'M^4F4WI,?"'&4$'>.9OB.2I_.'YW;)>BW6;PALQUF\ O7X58?*

*Q;-YJ.C M9_-E_;QTf)K6ZQ5AZQE)"9,)2!!/0H9PE%!$;2I1Q$.>Y24NA %L,S(>G;2 M'1-!PT70L1$,.^%#7GXX3#*C*$%4S(^P>*YA!=0(3V"C"I'9DX R)3FJL8$#L*

M&QQ[@T!8)5=^4O5JN7CZ)]2PBA!+"0I3GF.E6_ S1 G-4%)0EF J>1")C\/% MO;MQ6E+@J,X. &9:,2L6U)7346G28%PFL1QR[RQ)9;#TQ$DHAT(=)ID<^0Q, M.^K5>G:W6O)GMKY=?*

*1&K;Q43C0>0)CRE4C DTU#WSR3SI)(X1%&:!T|*0-,E2 MHU3#4P0\;T]'LLF!/ZB"=1,,"=4KV=G/63H\^A;9'ZN^%^*!K&>,AXE,DA#%>@$(U$@0G**2IZK*

M#:N,"4YACHH#$IZ5;3L[X"]~,FAH D^!1W Q= M<)"WP.@\3%'[Y/BF+]TOS M(8%I+[LG!3RX[)^I&4/KQ-N3.VMO_Y&JKGV47=CR;NXH3IZZ5QDGB=1KC8\ ME(I$Z:>0,2H2CE%

*((B(SG(19!+IO6G/B68W;\+1.@7E>K 295_]65ZN'9NQ' MDR$NZE_UT_2LXCD?+@*W@JZ M#KX,D+O> 5.SLS.JXRH@4KW5P5"GJ|&I*?"F5)<"Y.IUE34?TS.XNA2N@S98*

*M%R|HW6]^T/KR5FI2G-3Q1U;K/HF|IRARO[Q9+NKEO.*P\?OUXW-2P44:I1GB M+,3>5QV6":;26B#!1\"QF149!9M(-6fZ//H-)2KL,Z|\<)%WTYA.S;@.MORJ MCX,[T+MX9688&=/H7*

;.F8[BW+.,[4YO1\ZGCTD%.OHY#<8NBN6;T+IJ9N6N\0 MR"/-ZUVN[F9B\-9'G_,T%7G$ OS!&&6IH@2W5$TR]:4ES0G,KED:/!4P8[# MN<&&J6KG(3(\$[H0"CFVQ)?*

[".=4<58R3T.$7RD@<:5;<K'==0V31F&K^KX;[B0O=%P%FJW@6_U? M0=LV;<":,@RMGU>&IQH+#,?5W"]\,+VW1$Z=1ER>0^P1LZZARN6ZGG9S1'Z33-

MPES/$(EWHH*$4TSQ(4$IW(3TJ6I:AJJ<(>38>@RG(CV3=EF6I0V"U%J/ MDSB960H7TL.LPLB59.D(CTC/55W)N"<7(4_229257[G+#[:GS\Q?$LMI* M?=TBYGFEJRHV5V*

*FDRR/$HQH%$<(2RY047**<,YQPL*410*4]#1*S;>GH*FS MF2\7#VBMO\)M;3S46S *%R"*Y ($H->@D;]ON[&EL=W8"*CRM#/25K3!W+. MB7TT6'/V(M^00]BP5[>U>M*

*[5SB5MZ[^@F')ZA,28P263*68L*+"#1LR8B]H[2MY5K|6*D;\7(AD&) !.NN.[$^PS)U MRS(M8>!:68$G$,$,P9Z)6! RKH.=!;>\|#H# FL-LZ1&97+=>-;$[;=QT" MPT'S===##*

S.WZM%[>C]V)6(XB(F."\I8KE,(+1#8N(Y466%"T MRS#RGM6N9Z,9]K;L=-5G,<+$%T2FT-!?2=6;TA=L;,GX:R,RT3&888D*

*MSBG"HBP1*0A"98)3J.RH05H>@V0ON\LFPW18+EAI)FA^\>7MIJ-6%!K+H"S M=*$8FUDCC\C!S-'.(/2VZ?H QRTI3;0J;#AJ.Z"ZG EGA86SL7$PZA-/EK." MYG#XG-*

*TRMCfZRK*U_57K-J5JT[\KSI*XR.)18?+^U;*B"&2,HS*(H^P MI&5(<_-V1S#:OEUT6V;.LV2P92?H^ D40X'F"!"T)L$$3R!QM,M4&(V71% M D(",3X@] N0N/FRP<+M=AA,!#*

2XY77#$3M:=[?E$O!PQN_KU5P>ZYO M9>L8!@]^,,V"9OOZNT)GI9NO-M1UJ(A, \[C&"O/D8B!L08!,12'X(@UG. MRVH5,I9=K+HR7G1AI$4@T];G)'NR0[=916'473_=;5\?

OBZ_4V_^>24))@2 M@3C-,,)42$116*'H2-,DS0I>,/.#D0%!SYJL\\&;RC+-0X"""X;\AIQ\3Z R. M/(X!@6GU+A8=_5U$;$XW)M CC2.(,({QSB!"G:, <@]>G8Q66>Z PM JIU3

*M"N0YVW1]NMZF"VMC.V-)+$D:&9_55WY,"I[V6:)IM'^,8%K?]H,: MA@Z2.ZZ;[D1,.QZ&S%VU&[9FS)U]N P81S;$DHE)[+/9-Z')4S+@(X\Z]OS.Y\' YJ .]!C,TI*XF@[*

M/%Q_TIWVTM^GI[C!#[JIVY]D5>D.$5W WC;#D2+/U4<!#@S:6.OIQGB.0)5L?E M5.1)D40XGB#'M$_L[+UY-K6#$:Z=H"(F:I=(B=_TT B@A7ME!R.],Q@^4G5 M[)1P^UIV\G.7I ++?

DQ_;+.--(ED;TY#$)$=93",$B2P0H9FZHQ*<8QTZ2ZZ^.LY#EG!8F1C*36YK30TP<$2HN$$2Z3 M(C2PU2Y'1D\)-QWDH?JEH^VP?[69D"YG M!I\F-

*OW0X+.`"YF:?/ZI" M8W\]1#/"TB'.6X! 54]< 4JE^2B5#DH=]TU;'M91IF5OVLQZAZUO,-#SIG8\|C%_]/W7]7=SLTP-3,(SI&*V04G(-EWR#81VG6G*

*M[%&:K],QVP2&DYVSC1ZV/>OON!8_B?6['UUO@+[^<);G,2,DC%"4EPSA-"M0 M&=,,A8(*B8PB2OM;$)4>^C_TU 19V(:G%<,;).2D(2FNDA(?K"E&0<%44F M$$V*0G!1,L[*V7]Y)O-*

*7PFY#VCQ=1#_B 2K3>Y); * 7IKTJZZM ,:"/6'US MEIX'AZ^39F#<'BM CQKD6H(B|5]K(;B@YYQ-@NINEZQ7*(II M9ACAG&!4Y"1#7,041Y@DPJR-*

*PR5,>#:T+5?!\3!VO1.]WDS<^4LS%S3<05+$ M:-_"N-V9"EN8'J_ %9 %N0$\-IE1GJ#&98M>2$^HQF4MFM/EU5YH?0IF9.7 MKF5WRK[^1]V)M"_7ZZ^D+G0>69?!'M>5>M*U-=,?*

36?FREVOZV6=?W'8B7(MO/JW^B>I%F^$7*ZT2W 6$Q$E492A),.IVBVR$15)H4JE!<-"7>|)61208[@3 MKCQO'PW18$L[T,2!/8#%(M6RO:[7_+'KW:C>V

MN37G,Q&QC.0I023,UNX.'MN09D,X^^5GX5<|>&L3'NG8.-=-SB; "1'<7;#3B.K4 M@4\(%$>"H*$|\ERV$XG)',]#O?+5R%TA]-KSIM9PV2^C<36;UYVFJC6XUU4*

MZ\$)OR2T+)87>Q3BG#"E5'*9(F*.!$\HT5,,XNLB4EX]WR^VVUR7)_O+%P"AV T0@)8 M;K]@"%$&G3B(Q>.6V8GL]^#/R?/[_A6LN]N[9ZJ, M/8 $27"V:JL<)YG-*

*,IXXE_C9J.WYX,*KS1E9\HBR\WC^^@-(2]{LB0(@@/'> MJLZ.DY#HIA_=#72C7Q8O4GZ7R^?:'*'H4K[3fKW0MMWB*/M:K+AA[8>XMG]f65H9-U!3(*|_4 M[C3ZTS^3V]*

*{1?:%W>-^0UYF3 1#Y7%&X7';O, ^8,,_EB48E|E;C]VW=@*3B M% L(4HS;+=O<4)P3D+,\)[*2&<8>8RBB_T&HZH^>\%47_FM!%,C|Q<1/ML: MC(+&V#*FXOK_L^CGZ+8R-*

7G/U"K.S4$FIT>M7D)5]VU MX6V9(IE#5@&4$0HP)1E@18FU$T&K5%4]=*IXYT#|<@&?\U\MBQTAXH:<=, M,MMRXY@XY8 M)+S@C'']7;P+ + ->%YLOB]5[V>BG3%K49?-*

O4MRU M1,,,!VXYRV4E5 4]J0TXSA$$)--_%!0B)O)*N0[#,M?[*Q8DP2;_*)WW48V M?TB6VHO3WT*8/*=/<[V>,+1,]T6;]%3W9> "R+P/W*'4+_?GLC-Y/_"ANAM$P

MNIY[MY@G/;?)FMUDR^^@CVN3;(Z3+Z>%3 <=UQH$SU#5/P-Q-_ S M#K1]$?CD?%L;DOKY7_2V9-\][+>+UZN9K1IVCY4"}4(YZ#C) 8M1#$5%9*

M45K3|HNU$7NO+.S52WX?2/Y_7PQ6|R|] 'DOCDJ*SF7.:8@SQ`&$OMVYV$S M?+QDD&&L,*5.MVU"Z$16X"U\5S)>9N8: Y'34?;38N/062GOP$$=]/<+<&D*

MIQBPDZRE5($4]QB5257VA*BOE?74X^?Z4J8$YU|FC_K W_O%U&MD06!YC]\ MU+LNU[NN(MHO0KG@62HHY7A=]-+J&>U1L_]!W:UQ6]BG|),?GJ.C'G9CCKP3+@-Y>><\2

*MFD*MVD:I?<6&Q2:1=M=H/HQWZ7_3WM&@.EP;5<(*B! !0A8,:-=%GW\|E(&_M2DP0UF:U@"YV(1*?D6W*7LLD-_LZ7U/8V9XW +F;W3]<|+|E.1DRO>E'T/=<|YO?)D:DB*

*8U@9*3C9+2JEF\.^G(-MIKDGG"S6E)|'#6F'A'0W-,<-;UR,/&WI3J70&K0-*\G7^* Y)/)' ||OES\@ MB&]9_%XXC";TNZTX74Z_EZ0[.?U^*_B=MO4V\%WM9MXJ_:)X[.>?:R&]3*

*M@K.SGV6.(,D)!WE&E)M1EK+=W(3>F3\C3\J5\Y|NLVZ=N\P+AHBPY0)(@@"LF 2VQ J4J MJBKCN!1NLX&<.8AN=!X>3(S/D$PZBFUJ1QOP,ZG_3?*C7MW?RYE(U&*9R+XZ*

M(%G&1WUZME@=H8F]9NMJHEDW2\)\TS2KZ[=KGD*V3?>$ M(U@+=5?Z$[=3IX1GOI6ZT[+NGE8D;Z7/"K&Y[T*MSL4AUI/[Q0.MYE<=<0<49 MRP"\K)DI"S0%%<|2@%*

A)%48:@?'"WLH,,1U;-K<-)GW704?=..0G\AN_W] M1+>#N9DR<(/=/=8]$1^@LJ=!L_IP$JTA@\W-BD7/$4BWN27W+E]O_^'9;5H2E MB' @"D(UKX08$*5*

/&2IH01(4EI8TZW2T8V?/^QT^0DTC_<*7G_AZU^#Y;.1!/W65_K MS(%_\3N"?-58R*56L_:\WI;\-Y=/[_O%TEQ+W18I%jR"!>_L$P!S) %|>0Y8 M!DN:%Q BZM0T?*

*9Q<9*W8$.^<_HNUFT\W#"2_U//^;X\/H/'!T6Z[#X>.F|IM M@?G> =.13K:TPVWA=C(&VHA/$)MT.[43_/6F:/F6=_7ONN/X%[G:9A*MDHO-!6:#&;M8417>54G|%;")QILV%-&X(*

*MSF0!*J9D!QG%&8I550U2Z_+8S6RT1DT_[_;K3M;S!.Z,S^@33=LIN,%/FBD M1\ QXI>U,V5OXWLY^B[75Y]>S6_8IC]>)%;3!0B])W9EV%86AL\@CXUN&+@ M6(Q.73L<&?*

#I<;Q;IM(4+6MQ_FJWKU\N%!+DUEW)^6BQ^K>]JBFDHYWTQ.U,\BFD MQNUI0/G=C*&GZ-;&RU*P$5]-K] 9'?W#UM:<6G<20V$IW%K+;1_W.^4-T@@ MLCOZA / 36-*

W6H@8RMV|ZR!/)-R1PT[&0,>&$\0FW?KM!"^]?5N^Y9""N],Q M:KQA5/_#_.ZS&0OSK;Z[7UVKWYKM4-=U3QU:()T7908X@PS@/,L 487>P*LT M*R&% E74.M$W

*H.1;&H|QU|&^TK@Q>@O8NYFOW?9] M!|OW723;#4RG;1<&X=9\|VNZ=" LD?SB_%^2=^0>4Z(CH MCB9.QZ [77!U1-1VDK!CTO$|0#MPU'8 OE9F*GKS?3$3MY3G&.8<*

9I6^G0M M8 8|QI1#@1"@L\|HHA7+F.PLAEG3/L_RRF/|)4^^S+M[+AB_K M1T-C6SQAF7YY>]7(ED@S/AT>?DU66F9S'@:(|OQPMMB.X7=GB9UW M^U&)

NWCAVE,ND./BOEZ[QU_.$2*U5>ZO%ZV;>&[>IFOLFPHL^D"^9J/+S(J5C75*[BA964>)_L3LK%-MC&=IG7S;LS_3LA9W\O."SOM,')S"O*20@+)"VF+D%044H1*4E&"(%$%0.55Y

*MO"80V39TY|)*SI$*7TFL@'1\'/<\|^ANOESS<;'\)A_U9[VGC;Q6UZ8#?"" =F.VA*T!"RE M$!2*HXREE5+0IJ_)X>5C!\%ZRNS(,|@!G">2U"55 !9580B;2ZJU*HYA!O9V-*

{CT\,#7;Z8J^$!/AF6 MH63-4=O+O^UE:![^]M=<;ZB.#HP=VI:.37 ,'1V>$YC%&7'@)G4H\F.Z+2^ MDQ,0>SZ5VJN.OM9R=7NUF#=Z.=%JR2?MOZW[Z&9I17-).$@SJ0#FK !4B J8

M_C(E%!F3N,+RKT:(QX[#LDF+5W"T0H0B=\J$!R.T8.?42V!PL9!!39?W^ M0(WUGI8]/+KT-"Z!A7 ,-\#F68_ QXUC#L7>GBSB^2^_UJ5W//.M^2J!-

N[N/FM^#C[R3:K&4W8.W]=;;AEG!"3;^1.8]#:I2H/]"VR8%.5048926 MMRO3-,K.TPC$EY.1VW!G_7O=T>DZC?XA,1\W$<-Z\L6:K29A+6-)W:WAT6DT MU)>R\U)^ OZ.$>$C=?

OK3_)Y^TF./=I_DOX-56W0 O^0\(4K[@_"U=2%_R&A MD<GW>\NMG3>99-E\GJRZ^,.H-+IM_D^*N;2W:K);M M1MQLKMF:._6QGM,YK^GLJUQ]AJ[T^3E7&S_>M$-V_QL?

*H%-073;MG03P% % M(Y@B!M+"'#!YF)064J1(P3@G"\+*U*:>7CO2FI8D>C>AE-A.F#4I*;KB'SY.I> M/R0;;>\''0+;,)3I%K"5/?G8UWZLLP]8=Y0;>?1'7B6# MCTR;I)NX.E0"C+(8?:7E-*

*;OJ8BQD6VO*0.";,. MB4;L(><3BCD'CI.#.CM0!(G0[&%R3JSF'&R"16WL?EW.#.$]H 0G*$Z_3{1$;;T8J*BYGB7/S(+O&/HYPT#MP D[C3P,0;> MPCAP"X*

LYX';K.1Q.OXNY_5B^=N\G91EZB,>`NJ5/L_^C1;U;SM^,M?OLGG MQ>5VE'ZE7'ZD9$+IZZ0\|5>5HR!"HL48$$8(!6F@!=Y4109EH);32<+ MQ$_L6%#+8++A,-

*FPF.SPF&R83#HNDS6;#]?-_%_'XH@^+>:.UN]LN'U.^0%P M=W #IL7?ST^(^&OOYDF$ VO4U0A 9CI?)!PF.\Y*P&7/3(EO1U,WG^6SG*'U M3,Q,*.V?5(_[)*

*/+#M_-5%>ER}Z1MXN2(9*N+DGGR/V4 M%R1#C&PO1Z,+>ZHHKD\5J37_=Z^H7B^X[AV@M]JWRT=2+69I)D6!8{8{6W<8(1 MIBQ"141#%(HRC-.096D);GCI@TG?SD5-.-"4@[]:@L!D3"\OQO16||IPP_9# M"-+N2WC?"\KE>Z7;T1+2_!/XL?Z_KN8?Q,_*R;_UK-(1\U+DB.9I2'";1HC(C**

*M1"&*DH=21C&H.L&6$<_65GVY4WA*D!6B9D9T"IQ@]K+EZ$AB4%^!N5X&5 0] M8U=M_N#MPF'SF4M!<9@69,7&Y)E!EX!U+#GHHO4L7-9=."269MTT:M&'2I22,1&@4J0'0I&R/-DQT73=?=ZFI.@8072U-8&>4R/3604/WLGN88.,H *K21$"."O=(V7GR'T9V&R M<[I>#9>.SJT*DVW'90I\%|Z>U@Z!:*

{9^)O/YRQVI^)_US?+F L]:>1W9,EW M2I$,8]B0-3V;Q]VN>1U(@68J^%;_5]-4CRQ>@IZ[H&///"X.PN]\\-P7=#"3 M:8F:AQ$&-GA8A?!!A":+\]N(/TP&L'K^LG[GFXA-;[&T-R@,HQAS=1?,L"-QVI:L:R_66>$< M=S,_0NA5.IF?%OA4% ,.1)^"G@$_+AWX N$@FG50!['T]M/B&"U,>ZO-=G>=T*(X?9VZB-V.]@@WW/3BW9;!CUC*

*M15*CF4$9DB7.8"T3)/492$)8TX)BD9%.3C'R7G6)1&??C/HQD=-4R;936M9W33.0^;)QF)!% M+.","77%U0.K>)/4\ED}]>_&5U*+^HM8K^=-QLNM;.?8O%^N=<K++.(L%S1+*

M4%D@G"DVR)B5B+.9G5F32.#-APX'W#5WP$]RTC0;WA1!L&T? 2R):9 MX=>E)K5^1(;D2%LA;O!"\(TGT*)LN6DG;P0#?IH(M0\&M[*8D!1U[0]$%Q0\I| M0VH?>? +2P.*

<0DLHT$)]X6G"U%<(O=.P.*BA6P|CZOJF_]>?1,?%O5ZU7SM-MZM|(M?BXK.LW+W\7_*%;/"P6\{9)V!?]Z?'!5<|D%I=Q$F4HDIPB3$;.,BB+3 M3;|#.J$BYHP:6?S+V/!L|CNJP9!L\)8G0

*MSOR@5DQ,[".]!*A#_^E%JUG-?*;K+X{)KY[@[?4W4LUUKIXR?E_(7'3U_CHU-MNU[_3M;Z8R_7\^;[(_CU@G]1I,Q%_Q?= ->Q:*DN@DZ;>*REF,DDY+Z5 89'D M"(>,(,+3!,,5YEI&;VV0\-_FM<,G4X'c!?!GHU[96=E38+DWC7T2DG9WCD_B M^Z#Q_VJY4#^RM2J$0/PTOJ_H)5AFF18GB1#>2G36*E;AM8;=513&,.ICC$ MH-L&E_!6Z_,Z5VLYR_!A[K6Q3##*

*14[S,%N'6"8S>X;/L&#[.&*D]-87;7# M/5Z"OIK_>NFA;0N&HQL(F/RD=P]:HX#Q%F"4)*B)1H 3'E,""E2P!A;LO9\FS"=L&@8&QLO&PXEQO-,RY"B6D4*

XSS.DSG41XGDADC+'1'W"'"_9=%+@N"%AP@DE M94) K8?@+'@V10.J%BVO+T#V8JOC "^7QJ?I30&#TJ4!.H.&?SMTBH&?Q1R= M 0A@E;49

ML|#SB3I&=0M=#_I3RVCP1ZVT<;T,;LB<-->,E|7TU39W8M5^(#MA+5>5]1F1D\ M|R| 9O.&V/<,!3W2+4Q2)P8#?&&-,'5 F702,]VJH5CQ,V_SL$1@.NIM=M!B|

*M6*HKG(1T]1X\XMD.P;IZ#T49U_P+I(#IF(QC%"GA6C)1T,;&L_(PDZZN;3&D?!&EM#01A/1 MK 8WCBX\V?!&$_&& QR-/F]Y#!>K2M2W\L."5]|\WM3W?WA\5 ?'547F_3C7*

*MP93GNBO5H5D8"L(9DMI)@&F.JT-X$],H#\LB8IR560@ZB5LRXOLPWK"ESWQ# MQH(M9\%F7O&0-^_!V_8E&)ZQ)X 6>,RV0]5#G=6EV+@Z:=NR,>UA^T*P#LL;*

MEZYG6YZM\;Z2_>)$O%@H=TS=!>%6ZIX(Z_6]HL_KYB_"R>M -D\=!:Y)E(MXH(6,4$R+P7"A3K,%(L41Q'N,!8\)P3V%!Z9IQ!E=-+J;OU.RIKEACEHY;>K*

*M5X%3REBI7D42LD2]"EZ@DI0AHB3D!4LSEF4EK*C^%5Z$S35-K/LF,K_%;>_ M\EIO W\|\02D8[7U$GUY62R?ZI=?>VEF^]>KO K8AM8YV![YN'T#QULZMWUN*

*M],ZGF+T*ANSJ%W)'W!RBO4'GK+> *[XF;D/@&,[#C@6N"5A>"]9]$VX*|/KF MJ]?ZXM$F2XB'I]M_D[_*2E%1I293;&>YHY1$9(<,8D9H4R&F03E=AG2}6Q3*

*MM_V&M|2MT43).830\Q!L'!Y;E;"'!G\AA4KHZ@!M2G?:\#8/BX'@-?-QZ_@9Y M>%B)A\8ZWKSR&K(|fRL.MCG3_V*K'8*E) ME."0!?ZK?N0OWN=%W:W:$$ZET#=CM^JM8M>DP?*

8!&EIF@A4Q0EG."_,$EHK&D MB I>1$56)ED!2D5QQ)=GU>I(-]GV2TT\8"W=@#1<>)L5-?HNC/?+J1$&;ZW M^5##U]%PNLG.]!.A1KGZ66=!F4!YP10HH^4O3? [.S3PU,S VZ?&

MX?&;^N"Z_K"X$ZMJR9M_Z1-#VH_]!9UQ9K2GKWL,QRG(8D)1U$9)0B77(]F M*2.42I*0-,5)3BP3!5]!F@D3#C=L= 53RTU|K$:&.GCW0ZQ8I42SS2%\C6^# MH7_E_Y9W#*

*RV#EYOP5S7LI4'V-E9W>9(N.#O8LZ[\I2; M57LT4'<BGOUFRZ)*NCL.FT1$698X0%R1-M*49>PX\>_# MNSQF;0^S\37%/WC@B\GQ6*;F:E.7K;ZL0<2W9FST/J}_I3YKYV*

*(W-T^+/F8 M^KYQ&5Q';A@7+FAYISAJDV9$02FE>E$8)]N-D M?)_"UVH'0+0Y Y^SA"A@?@B^4&GDR/G3*W&ZP>>KU@I/ZJ+AV:&X># M%,8E=766.TYDVD/6]*

'IY_Q3WMWN#9."/W26P_8+AK"@H3TJL=#Q=1"B MS%$18JQ4OBPB2DG!L%%S2]=<^F=M8^,\(@6!!,)U-YO1#@O=/H6)RCE69&Q.L\HK#6701Z[Q[%;DWD M1/2TKX++%R!!"*

fZ_#0QC+'8XP)@05$4=]V3'^]^D,=JT=B"_OCU\EG(YP6_YO_F9W X&U&GVVW$R_U.MOZH'=;;L M_KK4C<#G!5E04I"0I2G,D(XB]49=:G)<9I4; \80S4;]DM>YX-P7675=A;*

*MJ&Y2?.JZ<=/LFIHX-95IY>G5F-F3UP,<9H<&{{$'G%YM;IXOP2\MM|\6WI; M6J//#"OOBN6@Y3G&,.VZH,@UF$ZKBP1GP]PJE1:Z/5Y?Y)S%9I!*H

*"NT@H0;G:=JM#_FY>%+)TZL8|0BKRC_-^GA0;U?_T/5,|__M^;JLN6RZG^MY|]_))3?QMN17NOR;[+HG=?_P26@UKCF==7_L9SS\TK+>_15R M=%G& _+<[.0>"T6V3V-Z^F+MA0_:4MT_Z#UX_+WNKE51"!!"@I*7+;._P2@VK$& M@B$L1)X2)!Q,PRF"\5-:M^030S_9D$_^8AAPK),Y":"=JH>$Q4W?ST'$O<#> M4LQ09?:GR$U;,&\[_%{)O>U!?B;@O8HRG7B6\E|.&[Tl#K(Y%DM9W\VO^O,) M", VE!L.^+N>B_=.LY>I2_/6IF_OZ1:ZNE4F,*B$6"#,)9*&((/E/D^G21Y26@ M597OE)DJ8Z'S,UD__X.X M&;JN+>8.P{O;Q=:SWR YCL9,-[61@U83[-U.MUU(3/PU:$1<7'P#6=A(3{$YI=ME_"_=]:1Z;F$;;\'9.W3:)-;>[.CVQZE7Y>+NR5]^"C9\HBN7_37SI81#84 M"+$<9!FA (L2 Z8D! JBDA4!%BGDIK>.4'@Q$MML#CKI[@6&+W9ZI9,U58MAR M*(CY%&T1>8R,HINQ=0?0)[3H]9MK'TN,C*A?\##@KZ9;L/_-$:C@S[K3A<. M/$/JG?C?.>OXG>N[$-9ZQJMVU%,B8 $R27*_UD DHL29$ADDLJ24YR[U)OL MK.YDC=VK1KK9Z=W)>=4/.G8[*.]B87>^]9,0T5+VGW(.OR0O]GH8SVO5_*S/]6)3!I2S^]J-NNFN'IX_5%RDZSY8'K7_*.[MERE]UO@O29^A2+E-.\OH!Q+-M;0R;5R"3+.,P)+5G)86)<1SF D\EE) M_W4K7-D#K2&LH.6_@Y %LUW;(]+N=M)*&=!0HR>]<|:?IF05 (6=$U:(!Y6(S9"+';Z MSJ;UYT(EAGC24D_^LJ;OV^?T$&$YA[10.+@9\#. \&^*.B)AZ!:IACTG(.I M(T(?,9\Z|HZ?@M_0W[Q$P75OGPH*[305 "E9 8P8]]FRD NM*R%"7]U^,$ MK|:/K,.:6I_TZMD;\##4<=]IZA!!NVNDBG[,Z'I$BD ;^7GU2I3LBVF1|_.;8 M=S\-VYGRKW;UC3O/1.)% 2E(I<_\@!I3 '4N0JU?^4;QO-9BJS @^,K-M[;,'SG, N!NI_;3HNEF*=:\)2US;2^,CKVC+3!>>PXQ C?A$ O7!N-% M#&4]#E"8UAP<%W%/OT<>]5/83<.,0Z,H,68Y9 P"S(GI'U-04,F*@#(K8 H+ MF.7'"D)L0RSZ#63=%,]U3]+A('T=9341(IK(_1K M#,9ZQ_-"E?.GAZ>9N<(=2^)9I^1L(EE%B7D!*^Y5F-L?C'@*LHSD),2+,\Q3 MF]'1W?>9R? L;OL]1>C.RI[_G=9TFU@:;@I;PO4U@/.WS_)[>UWID2> MR@Q E)OY4C@'K"(S[+S,$2D1%,QIOI0O_%OO4LW<^6,ID)V=BHF+FX'J.+E(M-KPD+3,7R8:=BV2U2)A,OM):7(2\5CT7C$#FR)G\I';(%YS7!LA['9^6"EUO MAE>Y]6NV8C>ZF< MK]GCT#CN 2]A. E7CC5?[C2TQ8P6\ERVYU MOMTKWC6V[3)/=/:MOKM?- >NJ^Q+FF%OE*%N[]TI!9AD)5 XPUF]?TR9:VGM M(3]1#==F'O.RI9G4F[BWS4P,"24I#)U M<>R8] =]8#=[H= M$B,W'>^B+%O2R8!V\&VW%31DZ>88N>F+,"V$/UA.:?,>IT78\7+^+(VMD>+R M62_MG6SO29_F]V!T);_*I2G2ORT4,L6/#$!9,("K @-2I"40,_LRRE F4S<+ MX"45>OA<3*QHR"&;M(23C:47?S]H_#8A#Q"",T8 M[3@DKU>3Q:.,"N\0X0@#@&=[P \(QR'%*OO%QM&W)PQMG))@-ZIQ\fF_0]$7 MN3(9]E^7B^=:,2/"NY;?&U-ST\R?F=VV/O? 8,=HL*05"6$Y!CG +.,34-TI?3M*),%U1Z3XQR*3NV>UDJ=QKDLWU>5'3'T_F15!H#^%FSD-~#V[G(0=8[4Y" M< Z1Z)V+'2 MU!V4?1H.[N-B&2(2UK'Z*B;H.Z!'T..R40TP)"NWT\-#!NNC^D? I%LZ+?P##D(M6:1I+V^PJDT+DA.7<=J#L%_7Z?"NGX7X)I_E_$E^DZ8I1C=I;CV;^9K-ZKN6 MQKH3U4WJH!^Y5M_UWS;J;_'(%!SI$H14Y0RIV* MQ<*I"%=G*]$Q>)!LVDP&? R9;10:.VCE=3XC3DU]&/-"WLS->TW\1-_,VX<=P M-H1AL0MD*@,Q-;DQ#0OD:W,;>'4_@]SZ,% ^7"U6O;G-20I$*!.3@', <%H!0 ME8$,0Z/*N=CQO#>6WLTR>4KF9ETZ@CDHXPW" MJ4#;/5QV4A4](-)K/$I=Z^&_$6D M6T\:4-E_5I0G#8-V!Z"O;Q@aU<['A%-$ZC%Q6;'D..*-UF%X+ M3U>B>8[<.|6;9RWD/8R%WMTM97=!>ZWZ>]SV-G:,,I$ F1R;N), E-/4@*3)I M;M049%&*>9X+9>6A.5&-'9H9M-_?Y7)1SC=TK(L*"XQD%":1=1E"6B:(5"R M"]=<_VN)RXEF-T6V,#IY.%/\:4U1S<^Y8YK>Q'2F\+;*FY/_+O.81NS:V4OZ M6;O?YJR>S;9.==,=Q-H$4,GR"F8H Y+F!< 84L!46@$HBHHHKD))]5,BS BM MR-9J33E9;B@Z1KW&<+*S18&D=[,U&\$W5),MV7!6Q$*V0%9BC-*D5L!"Y-=: M;O,*YlCF_KQ-3UU+)^FSR#YQFT*NRUG[2?LC%%_CUG(&NNY:ZRC0X -TB?QS\|Z\F>#F(M*1>A?=.?,*:?%OW04..QH_$Y]6SMV'#O#>;..3M"[+WNSF-6BI?55_\1? MK9 M* 6)R@=I F"%,2U@!2AD'N6!(4%4P4KHV9S|*+++(E_K]LY|O^-_WVS+CZ(2/_M+=]/ V9Y@QD(!L>KRR'5BZ2CF_RE_^\H1LU&T'#]VX^3FK}^TFA#W1R/_V. M>[,N-]FLZ*K=WDRB8IL,;YFI>^#5R!HZH)B\EV;X;3WOCDF&@3 ;9^H>DGI< M,0,({*;+X|(&R]H_(9=7GNZA]2,+T1T19IB?,_.8>S^P[Y(_+>O5"TK93;W2 MGGL*]=;'VL[FE)M$(+TMP@H!EO(,*P0+C]O:'!Q;/+*2M33,#HC2?]@?DC5U M^T9@>V",;]:Y(K]IE:MT3AW CHGAU?UKG(,'}.G\|=$V/8}=O,Bh/V=,%/[.F1'R,

M[^7,#D#PBL0]_YG&TW,,+\D6OOQZX8Q=\<25+!<70$5VLHM# &PH-2O!@DPH> MH\TV/]8.:[^8_OMT]1#K-P%/L7:1 CM,R<_K91B M0=E(0M.Y (M)(<_1DE/?&$X/4]-#]-\$1(T$W@%T;B0G?IO/TH6+SPR7)>0$ M+@8$);.$8#("LYR)@B6)1V<<[.74;'*DAX"\C3-SL)@[P.H..83[K&K-C4UX M/]f%922?/R!MBZP%PC@VQBJ(ZFL W2>TS]13G$?+ -< 139 M7R2Y<5-=1&69H#_BH\T>]L_]C---=+"BHYT$V4&;Y_4TQ.GI=#7%]95Q?2'V M<7]Y*0E_6W,/]VY5H/-=!H7=@,;^E"]9 D()!E,]9,>Y4ZT=[&UI&S?],WC) MXR JZL#RW.#K;M;5%'1V2Q@3(F"..B(FH*4QEN21OK,BNM*X]>YB:<4O9AM'^ MPQ.[1!4=@,]R:.%M^%8K%DADI)T%'=CW69S$'-$RKP!3KA-&UI*R/,+.1B M,W/VL4?GA]2/;$%>-[[^!$/U)2T5D\'R+N=>+WDYJO5]8]-40G!P1M6"R-X M+8P@WS!9([QG4MC2/#9\E*)Q3\V:!-50"1U ZOE\MA;)WZ:KC_/EJOY)US< MXTD]'-;// HJJ#]=6 KR-CCP-PRW)SWIM@UWX# (^M?83=09KC ;_@1MHN M4IR4D\OD$+!;T(P_"& MF.^=1CN&C#19YM%=.!87K4 M1;C!%M*68YZV33;CX[MJ0]^7F!3"_X]@>09I:!LI7@(X'2PD);1D7"E36D-M,R7=.%X#9M(.5T$' M0%K?N]Z0UPU.?$(FD7$((KG@ZPYO\",<]"%22(_T2>6.O35>^X]Y(33?>UH ' M9!M5= "]?2.46QPI56>N 9?0#E;^<<5-[M@Y.HMB\P3]0H1=>;,!>POJF-*KR4),BL:SND4$B@PZ%RW&*?8)-K)V%W$'B^ MPXSX:?UXEK!>W<[Y*?WLR;KK/RY7YU*Z[^+Q!%.]'9EXDP1.92#%;&H9]^Y M& F.)^:2,4Z%UF9N'SK'+?!C+<$;1+?1\/W7TP>)NP/$W.A1?DZ_XH9\OJ0 52W&(P8@ M6#8*5@P3= 5">Y;PNK@NG;\TOYH]#Y^GY*Y- MBQ" 7#H$ZYA.19H2 ML77OJN]3-6[N=";-59&!_#ZL,"P/%M\6POLW-)>&%G,C*+5 -H&XL/P %'S M!#%QK3D&BF%;UW\]1,NX6=.!H-1$|\+L#R)\#:(8G%;2M2E@O-\$Z^5N'^RSP M(JZ6TR!X_G3N!7Q97\V!"],"UXF/R'@1"@J;ND.D!FI9 MQKH+B>-F0(&I(+[4)CE*%QC1G95CY">B!Q\< E/;>29?7 YW.YHO+:,:X7$VTR5++O$'(ZAL&92"X7(O^N/Z!KP<+TTP|G1!]6\??;NY6\? M_O+RPZOGSU[?9]?5U)K;2QOIA,TC?!USGHV(PD9#5A*YQSHV,X)CP0&Y^*($ M%,,PUFUACS'/YO9-PMNP>+-8+YO7T?1;7*P'B$X*N1Q"%TM$UG(-6<=1\V0A MJ&*#3<9I-4!3W"TH&_MZIS%R'K_H,:*>#IS"VUR=CZA]=K;Z2)[NWS%/HE/1-M: (Z05*+0&8V!&+0&S"*IC&3%^O_N,4C7TO=%20'$;3,R&I+V<[YQ(;^70FI& M89/7I+RPX(VW8)W![+6U+K>,5+]#TMCW1R/ .U:^%=[#TMCW1R/ .U^%=[#]ICQ]+*61 MOFR6^]KPTODPI?%$$(F*DY0F]W"KKO1TR[A,P#CS:Z/0^0 X4< <^ M[@4CO^*GB(N)%]RGR#1P1\&?TB*#TW50G8O9IN PJ?:)Q!L$C(Z.0Q5Z?QK2 MGM+M !JO20CG@PQ)3F0JT;>/5ZPDE,]3# +/"5?&]@'BN3HP,5H'RD_2,ZX9\X!2KYW[=]&XOV YX+X(H&XQD(A204C@6\%PIXH3B0HGZ5;.MA MD+<(&/>VJSE]!]J!Y#X@.GC;'XZ/_EV86$OV.!H"V19\RIU+960M?\(8=0 M7W O+0S+]@096F/F/A6=W*'O^HT$G 'S'F"7W!AM=-\)32/!+P4%BLK;<) M%@X= R$^:=WGOG=H" ^P'(SR2G3:WSKB;!U1DH]+|< MWfOHD).5W@'7ZRH1K$K* <'RR$A845O>>IKP'F2."!/#<++$99(.!J0.YA.B9J"_|'$0C#!3E @:7%6^>]MY(2"B-X M#I;[W@CZ@HLX;XBA%TCKI^FY1C[5%RU_/_]ZENFO3K%^/2E,)"ZT!QI)-&2K\7K;?20 =P M>H_KA]SKJ!?%?^$-84V*ES&&[$'R.A.9U6,VF0@NH^.L1 HE]P1@(ZK4,A\Z?!,%[%LY!^P4MVD(1#'A]#).I,#5]OI)+4$(/P M.+6SCK4.L+Y#TKBNT#!X;JF%#D"U[LUT*U8DQFZ$BV/$D_4J!H@Q6NAN!HJ^0H:6_D(K'YO>HE.L9]>568OW28O#O S#W)3% PXQAG M($TBT#OAP8F.SO#,4.B9G3"MVRC<(V+<-U4#69N#)-U3<'_=27!B%5>!/#HP MJ;.E8RUR9<#662Q4G(I3.LZL UD=/*PLW% OZ>8.T#*;_/9_#875YZ.1Y2< M9*+7A4I&!@B&N*%]$Z)RRMG8VE]^D)A.'FZV04T;D7=P(%VC_K)]8#H[(Z:N M!C0M?\(R7URT,_T0ON+RY5>RS]2OZ2PLOJU%^4 S-^5D#"8C)),E"8!^<9DV M%"LB";.2BZ;U<_0!\>GW6G@;_/BJ@LZYQ6+%SOX)XI^ZUT (V>21TLN1V&T M?9,4= CX!%$5]K&P9"[SU2QNYB.@#R#A-W%U4!WL]>W7 +-K45Y@(VINZ M>[R%B"6 1.#* JL;4WDIA8WS'*^[G<==LR-2'6GA/ M/[*"7D#@)&Z1F%064T#?.K#=A;Z1VZ .BL^&FNG 13V_FU\'9B4HK[U@($2T M)"*9(%;J]) ^?MCEZMLAYJD4I.\IU0ZL$.'X&NY;F5EM32)9,;!H MZML.5 D\<*MDAY(, Y4 M",2W>1M 9F>%=TESU3I6N$?7 =N\!Y*A59^\NV ^MT3OGY'-@IR'^'GZMO.#MY M26?SZEL]H4_GRI/%C8QWL<*&Z(A97;L^I$)PFFD(U@N9#,? BAG&;]B1X. ^]-ME>*NX^FN POV_9!FPKF3/)-C(%%3>,(H,]'HO G:T$+IU0.K=/'WZ>]A^9) M1X'(SB'H3OKJ.(?R>-CRJ+ G2B%Z)Q1H%12QKB)XC?1++#H'8-D3^F-'FH\2/ M6Y/6"Z*/I?TN@' ,O_]Q-*3HB'R3-3C,$;+0/"@.,J;6[3!W=0"]Q[' M ^_@=3KI;XW, WQ^AR M2>2N&Z]]XL35XEX!R6]\R@T**YO;EX1/G+3Q7ZWP6 Z!CX+TC47],!\)?_M<19.1^7;>B+)?S"?X+,ZT$I.%@P'6>ICL=K>/0A&\;LL.JO N=6M$_0#LC-R M#\D^M>Q8=+QCJF:>!Z6'W\^G? ^^YO^7,)W5;Y[W.'F'Z30LE],R3>>@*432 MVF#$;)T3 K2OHX0RQH-H]H(+,25) ^)R;=W]JS$*?_M/1H;G#B3(T3[H B-GF0 M\;)EL5D;P"!KQ%<0 K<11(@^%\YRD]TG #4COD^? ZLEMC2;8V'U3^/--,<.3 ML,++\X2A[X\]13(C66*4@"@I>%,%62.(9T#!GF>0R\&/"?JQWVZ07LK MKH-JUPWL7++*R5?J2.I.S]>JRD+G0S..4(N M=$S==P#]W?N?H(PVUP//HR-A]\S 96,@(_- *><+]Y:7V#-$R/FN&;/1P!OL/J MXOO[]$=VZ$19.E"RKQVAO'+(^0TTF_Z7&MYDXZ M:68!.RC7>/OL'?W=7U^>>/?\V>MCU6[<7G2T0HY>!^IJB-,"L(D>;;<%D;! MF17@=*$75!69,C<4*+4N}3IR5<=^^?]Z0P.Q;[02D$/2]6;*D.N?:,/2S@PJ M!,UDZZ%I>Q/[M&I&=D%=F_N777?Y%/-BF],"E?,A54Q8X]=DR=OF',FM\09, MO5S5148G!IF(U(3ZIU5P.A2T!\3X4\3Z)IZ-#MH%C8!2UCEF)/501,L1S@$ MTH)K>OH6I#M)(()+\7WH5IN&)=VW.^_ ^_UES>O7[QU]_IE?_SUU8?_ M,XBOO&&9XWC'W^.OO3_\?C5/__5Q?DK[:?GRO\^FJV17H!:,,"T;. ;_" %3M M$A6]2A"5D*F@$#EH-6-O\,&$'3W&]7.1#=8HF:*.PH2C015,HJPNQ*;P 6Y*Q MCEN4S6<1W*:@&R^U$1;N36[=7]X=',)7U)]+1!KJ^05KQ,AG6#F<$?777O]L-0[@,[;M1! Q?K, M;2(SEL@EA^ PU;(!#E"!+#DR5!RCY;KUW-6;ZX_KA]&V8UB>YX?- T%4XOF9$F,R42>%_'"9=B(6:6H)"DN(["9-L: M*8\2-&XNJQEJV@F] P2]PQ695\R7'4PNN0BQ.&T$H,UT'J++;VN++6X\+Q@QUD:.A'6T=?:,CV0R M$U(@)6530LY*M*]">\'8=<0LFD$FC;]0,VSE,X^G9W6VM"0CND!NFDs?1^L#:EKAQZS,:`5Z#*:,#E&VN9+K<.,'8DF05 MGI#57]WDULE@@9N2"QKMC&CM"3U&S\C]HH'6.UDWP&.-G3YTC*7%%, (VL7 MM\0L!.48B""L]'5:.AVIM7:?BDXN@AMF_/83< <0N5LS_VIV/Z/^CO;"S_/% M[V&1)RI&Y@060*U]2W!OP1>)P#4)46F5G&G= 6\'$CM)#>Z)B/L]/P=33P?H MNY&TN-\&J]B8*0)U(%VLA[:6$.@_X)C/C L;K6I=Z_(8/:,/-QL." ^GD@3 MRMX(^[Q^ST-[:,%]=!#>E=5>;QUB#'7N00#,MC[T-YZ"%8IXGR1MTN%U^FU]AN6)5MH(+@MH6;>1 MUWD0SB4&%)5S2YZN<),H/% 7]SFI(T^%FUP.>y@T@[<@ZW>7C+!4T]90S">_M)(KZ8'/&4$Y1H(A;&MN36[[/Z?S1{3]);?$L=[.(]6PO+<"7]62&I$R40(0>+@ M"*763"I:TE1329IS5CR//(8A\P/WR9GW%S>,7'62B>'-@5H#[#_#*=G>,G+ M\WE--ZT^SDE:/(N9 0*)DV.,BN>6ON;V["U%>0&FSPT&N1:M;&E4[*V=BNO^9N?\^%>"' .@WG? *B$U-QY:\E;B&3"DS<0L[+@4F8$ MHR#P;M'I_[@WB1L!;S!9B8\(CHHZ.&77\GNU7)YA?G&V.. ^^7B.BM6Y_ MM??>X73]8Q-#[H(EV4$6J4I.)&L?7=%@; (I!2W%X:5^\NBN56'\4/66<'DF# M_6)T?1AL9C!E]XQG'"'8D7FR/@\{CHAUZS,:`5Z#*:,#E&VN9+K<.,'8DF05 MGI#57]WDULE@@9N2"QKMC&CM"3U&S\C]HH'6.UDWP&.-G3YTC*7%%, (VL7 MM\0L!.48B""L]'5:.AVIM7:?BDXN@AMF_/83< <0N5LS_VIV/Z/^CO;"S_/% M[V&1)RI&Y@060*U]2W!OP1>)P#4)46F5G&G= 6\'$CM)#>Z)B/L]/P=33P?H MNY&TN-\&J]B8*0)U(%VLA[:6$.@_X)C/C L;K6I=Z_(8/:,/-QL." ^GD@3 MRMX(^[Q^ST-[:,%]=!#>E=5>;QUB#'7N00#,MC[T-YZ"%8IXGR1MTN%U^FU]AN6)5MH(+@MH6;>1 MUWD0SB4&%)5S2YZN<),H/% 7]SFI(T^%FUP.>y@T@[<@ZW>7C+!4T]90S">_M)(KZ8'/&4$Y1H(A;&MN36[[/Z?S1{3]);?$L=[.(]6PO+<"7]62&I$R40(0>+@ M"*763"II:TE1329IS5CR//(8A\P/WR9GW%S>,7'62B>'-@5H#[#_#*=G>,G+ M\WE--ZT^SDE:/(N9 0*)DV.,BN>6ON;V["U%>0&FSPT&N1:M;&E4[*V=BNO^9N?\^%>"' .@WG? *B$U-QY:\E;B&3"DS<0L[+@4F8$ MHR#P;M'I_[@WB1L!;S!9B8\(CHHZ.&77\GNU7)YA?G&V.. ^^7B.BM6Y_MM??>X73]8Q-#[H(EV4$6J4I.)&L?7=%@; (I!2W%X:5^\NBN56'\4/66<'DF# M_6)T?1AL9C!E]XQG'"'8D7FR/@\{CHAUZS,:`5Z#*:,#E&VN9+K<.,'8DF05 MGI#57]WDULE@@9N2"QKMC&CM"3U&S\C]HH'6.UDWP&.-G3YTC*7%%, (VL7 MM\0L!.48B""L]'5:.AVIM7:?BDXN@AMF_/83< <0N5LS_VIV/Z/^CO;"S_/% M[V&1)RI&Y@060*U]2W!OP1>)P#4)46F5G&G= 6\'$CM)#>Z)B/L]/P=33P?H MNY&TN-\&J]B8*0)U(%VLA[:6$.@_X)C/C L;K6I=Z_(8/:,/-QL." ^GD@3 MRMX(^[Q^ST-[:,%]=!#>E=5>;QUB#'7N00#,MC[T-YZ"%8IXGR1MTN%U^FU]AN6)5MH(+@MH6;>1 MUWD0SB4&%)5S2YZN<),H/% 7]SFI(T^%FUP.>y@T@[<@ZW>7C+!4T]90S">_M)(KZ8'/&4$Y1H(A;&MN36[[/Z?S1{3]);?$L=[.(]6PO+<"7]62&I$R40(0>+@ M"*763"II:TE1329IS5CR//(8A\P/WR9GW%S>,7'62B>'-@5H#[#_#*=G>,G+ M\WE--ZT^SDE:/(N9 0*)DV.,BN>6ON;V["U%>0&FSPT&N1:M;&E4[*V=BNO^9N?\^%>"' .@WG? *B$U-QY:\E;B&3"DS<0L[+@4F8$ MHR#P;M'I_[@WB1L!;S!9B8\(CHHZ.&77\GNU7)YA?G&V.. ^^7B.BM6Y_ MM??>X73]8Q-#[H(EV4$6J4I.)&L?7=%@; (I!2W%X:5^\NBN56'\4/66<'DF# M_6)T?1AL9C!E]XQG'"'8D7FR/@\{CHAUZS,:`5Z#*:,#E&VN9+K<.,'8DF05 MGI#57]WDULE@@9N2"QKMC&CM"3U&S\C]HH'6.UDWP&.-G3YTC*7%%, (VL7 MM\0L!.48B""L]'5:.AVIM7:?BDXN@AMF_/83< <0N5LS_VIV/Z/^CO;"S_/% M[V&1)RI&Y@060*U]2W!OP1>)P#4)46F5G&G= 6\'$CM)#>Z)B/L]/P=33P?H MNY&TN-\&J]B8*0)U(%VLA[:6$.@_X)C/C L;K6I=Z_(8/:,/-QL." ^GD@3 MRMX(^[Q^ST-[:,%]=!#>E=5>;QUB#'7N00#,MC[T-YZ"%8IXGR1MTN%U^FU]AN6)5MH(+@MH6;>1 MUWD0SB4&%)5S2YZN<),H/% 7]SFI(T^%FUP.>y@T@[<@ZW>7C+!4T]90S">_M)(KZ8'/&4$Y1H(A;&MN36[[/Z?S1{3]);?$L=[.(]6PO+<"7]62&I$R40(0>+@ M"*763"II:TE1329IS5CR//(8A\P/WR9GW%S>,7'62B>'-@5H#[#_#*=G>,G+ M\WE--ZT^SDE:/(N9 0*)DV.,BN>6ON;V["U%>0&FSPT&N1:M;&E4[*V=BNO^9N?\^%>"' .@WG? *B$U-QY:\E;B&3"DS<0L[+@4F8$ MHR#P;M'I_[@WB1L!;S!9B8\(CHHZ.&77\GNU7)YA?G&V.. ^^7B.BM6Y_

*MK4=`_$%X>%K0OVKD?]$CN.YR8Z3TD%"+^E2GGK8Y0D@L>$<.I?<#7_OO2^X? MW0,Z.O0/PL/8\>D.?%[VE7_V0%_Y24AS@:L@S_V_LA/6.:+ZT:,$X=9"TZ;W1E> M0,7H2 LBPUHGUCJ99>L'MXU(_|>IY3WP-#@Z3O;?'O-5.!UN>Q ?YZW(WY2- M?S_Q3J,SAH/16.H%($(.@D-@B=OJ^J$>(.3=G=|_G/K=Y M!OBH$.SH$MMO*2 MCK1:&THOC>R=8W4+O0MQ6L[3\ZK ?3>#.S M?>0;\&?+);Z6899?3T,&C"H$N,8 M!6>M1V+\LZ+]0$2/-LAA!ZQTX!U|K_15>$=QO\F@2XET#€.*;@S]T7-130B9 M13=H2N*R; M>^W?)6TRIH. CM7M. ^BCSX MF<[-!>$11%:*8DS&#54^.!#92B5L MP/MC5K3O!)IF%>V[:+ #!Z|E.)YXbW J2-CJ1"G$Q:E""R923#M*"}-?P M_N-4M!_B/2(L fVW;Y%K@)=#IJ,2BK)@HH*(=06[+PH|E71UKI!RP?^6=&^ M/^H:5;3O H&Q*P:.^5UI-)!163EA@& (HG6J7)Z; , "l,<58S?B<1\H|4T;Z3 MIG>I:-]%[!T8RV/>$Q#S)% <;H0@DF9/O!M%(#{(HPXW/Z.W32\V]_L>]:._; M7=D/;QULP_,/C/4M|K8U0%>95H$Q6KV>2:-]AW(OP$E-]HQQHYE-]$+KAR(' MD/M']UWVA.!\'#QT /U=BIO#\B.IJ?[V\K /IE_"Z;]?9; E)%,X,%'?U_,2 M(.]<0;M;N4LRIN:SNP\F>MQM<#1X'$#(?KBNGO:XGZ4T/R.6?YNOL-ZKO9Z' MV?(=)B3>Z>2M59TO>^0Y1A#>^&I1,OF6]&M5IY8Z."}P#Z9GI_:G"? TY>K;V_):.W.9SWE/E>G|))U(fV@6 LA M2/^^#C2<"^H:?['3D;NP/?5,ZW7&);X;GKR MFS6T=2YKP+]f(VI>/DF5=T1NRY9#D[NA/ MC*Q-PEP2T 5 V>]?_V:! %>0Q% (?IRA/Q,OM;>,))Y:FLW"K3DMB1'+M>. ^R'@!MOL8[.XL'+\CQ4^_3.H:]CM^&3+) MK8X>4D$*0Q+SX'DHV)PY*[QS7MVO+IT2SX]0/>Z3C!> ZQ;.?D&NR"|K\]X? M!N9KCLGE8CE!:A(%]TMR.:!A 6PL63GB.VC7VOEXG)R=@.M^%"\1,8.#/;! MDMYP2J=09**$+:,DB10N&7*E8& 1NO0ZFR!Q;#S8]G-J=\.Q_%CR?6+M]/%@^ M.@S^?3:- &^Y5X'12;/A2%Y8%AN-L^%MQ^@@=]%N_NTHE,YN%BH%<)QOH"$OE(12%4(*RR4L6 MBVKE=";80C>.F)0=$V%W.XJ#*ZR"_OH6K59%99,N3807R:G6;=@E<0 ""B<5 M8QY+'.A4WB-E7*@-]_]9>V5TB]DK/V%39!8B15GS)]$Z3@R1?X!%DJ2X++#D) M*QT?RN8_2E0?)NTHU>|.I\/U,';8\NKW3__SB?S2=3N!]TFY+!FD("*02RG(MJ&.&X)1*113Z_Y&G>./NS^T/!4=H;-9&?!V8E%]R6+Z.TGU^NZ[Z>11!!H$=%1Z[!R.E':IFY:>Q('3\)F0.%/O:I\WH^25\RA1H7 MDV5E8VU $]-9A5)9T @JD$G&X"5(R1(GFZIS3T M!))#M'I[_97*,B#N R/O9] O]M(MZ:W^Z_V9U:I!(5]PH.C=*T\5]*-;/BJ[K M5(]@:MD6F|\VT;'N$TY)[V8CE9#AU!:GRZF58Z".S"A{CEA2%Y:DA$<9IN4 MC%+ZUIWTVB9>2_!T1I^(€'B+L'T-#)^E"NS/+:.@@9M8_':@+ VD04- IRI MOCTK.4]+Q:CVBV+N4|$76 {1[8,)LQ8>KX\NVZ%^13S%.>3V>KX2"-2 M8;8 \MI$Y34"Q9@<9I+ (^TU6;+=\IHTM?N(42^MT-0A|]^+CMYG-H(?FSD MK.G^<[KXEN.D3'!+.5$:T==RJ0L5>8ZXV)A(A8(GE05HSDU=<{P*#4@F'5Q%"D4OM-#VQTQ MN418K\?,R04G32.:%4 M\[% (3|$S;@?KV&TPAZFE(XC=:E5I0Q*,I'4K[>"11.MW;5]Z&ON]Z(U'Q"-R;JVCL@M46B?WZ=_Q:G^Y\K)R= M68 ,YE) 1('$#./@R#V@*R F%,:I(';,?_+OCU MQWP2,]WL+%KN#7BN SD*B6YV@Q)\,,J90NSHUBT23Q(T;I5K<%MTO\(Z-#Z_ MX=-3B\N+3\M9_/GV>O\;K&XS.G5XH\\CU5[7\B|6/WE^B^FZ)OS>MGK&3,]6! (BB%#7[X2:\O5T+K/02:]ZZ7LWLU@&RIY?'S5]=#'KM M/|BH/4QOSSYON(O4-2,+B PXU5=/LD (IF<66MC,=59!*DMNFC^/F[4,3+ M#M1!!f[<]>K ICJ^MM^O9_/Y{"\RR6_P&_W-\L=9BMSZK OD6'>\2L5;B_4[&I@6:Y^@;=UW68)[>8"KJ17MEC#[F >T3_VX)F!G=Z9WG&>S M!IDU.7LP,KFZK%5 $%$3"DLF^ 6I=>LFL:3HIT MV@:T0:C6"=N? ^MGL/@@[-LKK/(5]+[+>YD5]RUP=!U6JH1580E,A0G&>9 MW-'H3>N9\S_'L|F!+_ CL]E|E- $IHNX^_D-'@;**$K0KM4/>2ZA+]%8$47D M>=?RY<__:'8$U/!70 K$]YOEI$^6Z:)M\GZ1+/SW^\N!A ^L{$S[<= MT'4Y-R)7WM99,M+(.O<]D#@UL,B494(:9W3K&_5 6ON#X1&0N7^9GD)_'>#T M8_Y69RO.Q_PYG5P!/LQ(=X+B'-!>PDF"IY,?DR? 76Y)-*K!N!PLVTF9466HCFXB(D<"++<3F<-1H3"37+#> MRMV2KCM\K"-L'*+-V@"BI0.J[_[8QH>,DO& $@0=)E"UY9_N4P-&YX!&6%?2 MCA,/"_(N)?/ - X?I0=7#- /)H6)7D)#IO:B2&5K0!7.%W Q45C9#3:M7X$ M?'3?8# _/@1OG 0Y32P<0^_VR'HP;L>7%,J!(9X>1/% M19:MM+I\-!Q-\!8 /V0%P B\0*$^ZQ)OS>MGK&3,]6! MM':P!%.S!M1QV@B/ =M@*NH3?A]SG'V9UOT*[Q*)?5(FU?*ORA#7I^S5-+VG M/Z7V5T0F=O<7B\|{.WU[B],N$_O'BS++*4R#$().6Z:-> : -X: 3JFE3-AAYM/ MV9B5CCL9&XZ/Y(KO /_FLW27Y/S\S/&,'/Z &A77]ID%R%81O_#0N9HT!M, MC0&[^7;'#8K'(.P@T8X=4+8|%A^67_/\|_IDW/KKW_/RS O4!8,%R^HPI:PM MA"R01&N55TY(I^Z- !GFF:6Q@=CON9#P$!HWJN-3N%78?US.XU=<7+6YOSI?M_0SZX\D%\UVXC+GS_CW+U=QR%$0+1.H@XQ| :5Z[L8AYOIKN M'7P1O'7W6E,&.NZP,''!GU|)'2'\=J/- C1P^YG-Q.7<>MEXU=TQ:JZ;7Q\F/^G]>7>9.*FY5?)@O\ M\F6>OZQ^]*RL_\$1S9C[?])@^?1?#5]VEQ_XBV!=]-#_M^3Y=-T*^RN5R6 MK(K0@,;Z.A")V):6@2%C'A.:''" MEC$(\@- V0=,5TSNV?7OD M<0A >,->CE>IP\!J;#]M^@IR1ET*T=DA;*Z!'+-V: M_(I1&9L"!XEU22_602Y!%^"\)2DE,+^X*7V6.IEDG(SE3\'I0/EWP&4UM;U M 4=K(\LX8UD'!TEZ,K(AU@$8COQ]$[7C9,Z3;OWH\&F*.@/4H8]?#:.%#C"U MY=B|SM/X]0+G_UZ=/6-DEMR1&4>)H)ARX#+7D$N13#N9G&]=6'N.IG%;94YY MZ1VNBBZAM>%FLZ$C%R.#9"!2G.;"ZIA0+S.(Z.(IS/!8!K_^[M'4FPZ-#'1'V%PK;V1 MYV@:MX%OL'NOJ2HZ@<-.#PW-'4?6U5*15/1.]>Y@2")<.3

KM<+E82XVM;[G5TH1Y:S:6G`M."ME0#+B(+F4ALO 4;8>S_`$.9W@K#T(`H/;D1KI%%QBTU@E@S>A,,@YU3VUA8-(3G]C.1W1UF,
(.4G)0NO\QD,J.H'24/[^D6+O#CAO<)<F_S.:3_UVI.'T47.'HO#:0 M6*)+7&2ZQ!DG4?$@6,F1V]"^"_P'.\MF>M1=\!?CY] MGEV9>HV+R>+/Z2PL
M\OOJ%=PJ/*6_GDWCY'ORU9!V2PKK2#@YG96GDRI-,B1=$2`$.KT\12N!C/0' MK;MLA^*ED]3I<5!H#,!CZKT#_/\VF^8?O^'\WWGY\G*;%MJ"BYO^7W>)5U +P_/_UK\CW/H]7Q>?4E
MD[3RX1<#935P>0>S.;?YO-<9FWW@0&UQ_G\-"6`R*% MH9@R)";B#6.+I<$G:NAM$\|\]8Y[2?(V0F)YA^%O@%,*ZP'"3TXZLTEISI(#
MF5WM.]0(3K!8119%M%I%U=V4P>%MXE!)S6:JZ`I66^:=Z5(S^RY"9+)F_%F" M8".#E+P/UC(6[D_#^:>.&MQ+Z_N,&MQ'!1W Z>UL_A?.TX:1C:U%)4N6WD'@ M(=2V+
L_/%I(D>E:BD2,S2LN6RGH!4+':OKA<,%CQ=[%5,%;IOMZ8OQ-'C_1 MS4R7L@96W[$I7B*$F"64.E8@*!D*#EBW>TA0)P[7"6IW1RJC!\,T8>;.YIX# M?=2[XMBTM-*),ER1&(1+=`Y-
71\0BZ%HN\D&0H[%#}'8J'1J$HLKQ`P.VEV@ MH8/CL1JU\CNQ18S7R6P/UEL9*T66Q4-.EJZ2H#1XC70[%1%TT#0QVWDUG(F^4Y(>.0#X]8I
MVT.AA1R[P\+G.4697_.'Z69GJ'2NSCE&"*H6[S4Z\$X@B(1*.Q64?+YK]EFTK&R.PIO Z#K5",I%3S\Y\%"B2%Q;PTO: M;5'TLY\:<[(94Z_79XO)W&=;M^> M9OBQF6YADN>"
ILT4'3EI+/L((1/C.2KT&K/ENUU!QI,R;NM"^]OJQ-H9&XS7 MC/Y9=V1>L?IN&J\&<>/Y-.:/U^-UC,L,05!)U5X4*H"3]CR,'#DSAQ8@@<_.[
MV;++#:1BW6Z$^ZDC;%=^_XW+\GF(A%HV' A:U;A;& XZ:_=:,5!&*W3;#?K M)O1WQNTI:_^>AE+H*CGS?C;!0C_MHLKI>NRVXD5H.3GPU>-[`C+Q@ GJ\@?# MLDIX'QG'%*VT-
%3A'9\HN\H27>(EO59\IK+4#U"F:RCX$%Y<,P&,#H0VI/@ ML7D-83LEXZ9WCM?P,Y Y0-P|@&8RS1_*E;7<+ CT,B:4*#2OKIN1!=*0D=0\ M'YXPB&1;KVY\2$5?
8#E$MP]JYD<)N@.HK)NAMC""T1L==0!=!S>HF 0@>D>W MK/=>:*%\'*B1[4#@#'8O#0"<-F+O #]WX\25_8U"E,R3A.RMI=B0[FU4=(,[
M^4VRY/&QYGOE'U+14_1^O"=6]02[P\GZ!/& TBME(.FZG8H9#H$%\0K)AMI2 M6X5;>[W,Z!CW6CI6MT]"Y0!=P"6]QI;S05L+M4DG99&.\^@RHUQ'.:0R1+ M*:QRG&[=QD"Y3T-
/(#E$]I.&(NX (M<)I6IJKRLJ,49+5Z?DK Z=2AY\T1YT MSL%$C8C-QW-M(6-<7Z4Y4(X5= =8>3JH[5CR 9D$+I&8"9R,K:=P47%;6(A. M<&SMKG1<=VB.GW;"
[P!)_X7S277F/N+R*M<@4J9U%AE(G2C:M ^B$5X[HOQVGU"8@<(.(.0/+IZD;]4&?G3[Y\7.Z?=DR_5)8^S19#:X=F1]+Z@=,A"+B_(' =8Q=B7SU^N-F M39T/W
8GP5BA06E1@.9R#5]F8.K>)\MVZ]^Z_I'C>KB-E`"+$E;,4[7WZL+\GF(A%HV' A:U;A;& XZ:_=:,5!&*W3;#?K M)O1WQNTI:_^>AE+H*CGS?C;!0C_MHLKI>NRVXD5H.YX,\AIT1UE+B 760(-DBZH(V7*=:[_&H,SA/I*GL&
MGC,%VIK$=0FEL)V60#T'D,<(&.^::*#466L)=P*3VF,0<7'=6*!]%%8@))%%X M7;0G()B2P3/4&HM O=O$WQTQS^7SV5ZWTX#?ZF^6/,\ZD=AA(7D[)*]]Z)(0!LK^<>4^'I?
DN]WWHZ^EI M\H& >*(?L:EV.D#>O0.9YQ=GGD*ZK$-]&N}]3B K6$U?UH)0P%=LJ!UP,>' M5/34.]\&14=*N@:LW#X'9Y&S@"YF**P.@3;%XGXG$!LC"@L;>&)%;5U%N?[^G
M3L3V5F8OZ7: C+OR6&TC^42T8/HPO5U8X&>6?,.IZ&^4H>LW2R)(S,\UGGNU!7D^EG^%\I1:ZZ77XX?N,B[OXE8A=^DEX_FY: M9O.+U8\]8KKA#C^UR?C"?:EO-)]P_=G-?
+]{CFQ,*I!4]"XS=^`ZJZ1RD3! M74ZL=2O/70[.-DAYL?)2#N%X[XV$P%$Y#/!PFSL-Q,%OB M^=#>QJ?+,^1 7,T1]KL(WY[/_FH9V^SX\QOZ'H=P-(P+PJV7&+T'QE6CVR0;
M0$<^:5+(O(Q&%+93E^>)?9"KB6?Q:TZ7YQ3E/R/1J^H> 78U2.%NW]K:WJT\ MH!+$%7%"%SH2<XY6>@\P!W^W*&]E'X7>GRPTGZPZNH5\FBV^S!9ZO=G&L=E)/
MRB1>*6GUG$7ZPAEY76A0@5)J/ZOYX@:N8S>$@*]P^L ?70 ML$_Y2SV-=?/&;$J!XV5.ZQAR-EUL^IA8S"K("",6L3;"U2B M=0IP!f*Z!=DA0'CP_JRM5L9^>
{,S!?J%W>1U^:=S"@HSJDX4L'"4-9"*C?0' M.,.];DLC(JQ_VB/.D3W1GVIAYNYFP(_#'B7X67$Q"4[!<2^0"8$!>.HEQ? M(GCDN@A\ .,7F6XBW40<2#+$#E?!D3O@(372
IX_U'2"'\!N>)2N+%IYX$PKI*N .G%2%?H5,.!D.:SXX[PAR M7X+Y:X;/4^FT[^+5Q7$Z7M;>F92:5Y\W:> :MW_YWKZ<'DG5J,H&30YW2&6$A82I<6VY,)T'VI;&K7-L^"'GZEFVLG
[NWR?Y MNWVXUTU:9ZR4X$U40!"AB\$;#PZ3 Q&2|^BU"*;U%*]|:>RJJC@8^(Y53M^W MY]O+Y>4\K]^5;YS;H^_+)W]JPQMR=^J'N1.)\52G P(OH>Z09@FP2%:?X2?C
M;45AZ_64P[?/73N)UP*]S+^3_#[_E<^_Y]]FT^7?ZK<&KXJ*@+]^M4&RO)X7 M]|GHC(7G.GF^QT.I+6K.W(?Q.S2<=<61W*94+U#107<,;;==4UB5?
E*2!XB&I>&O((2ODL*AZ$0PY% MUR97[26$:!//2CN.CER#^\MF3XN]2F17W3XG0]_>ZGEA^'LINYR?<1,QL*! M1%J7*Y W2HZHA5)$8DI*Q&S[EMK]:!SW<==(Z-M;.2\-
?)/O=+ATI>]/#+)<G M%'+5966NZ_*J"!T$4RFI,6U?I7'<5UYC@6]?Y;P@\+TJJ,UK)FV0.CKEH#A. M3"KA(&CN(8L<%9,D[C@6 N\0.NI,J1%@>+B;7A 6SQR+,GCTM3T"Z8Q%.F-I
MNJ#PH(L2,D??^O"K$V-.VMF\,3MI8QF#> #@>$/5IG'7/Z]>[(__351?W= M&2>?`1W%4^@!23*Y3)(.!]0CDQZ*#[(V7Y-X"*$[P<^!=/@U45,!!N^O(C$Z MZU5P ;@/=*XBK(-
T6'V>85%)'IQSK4=&%/4]R\ 3RU$W7=%8?T....;)MP:5 MA*T_K76-_4EJAWJ(8DKPC%3MLR"7"#G!1P;0+.N@T&HN6?>5@_OM)9OK^/L M]95,O^=T5;NE_FAO"5CB>?5*SQ3W
NZG&W=E)%!&9LA(80UC#N5,YZD+39 MP01W54/8!SO;[K/3J*V#>VU79A\43'"R+ 4F(,,;B%D2,IUY"2@MPZ2LB6Z(
MZM8AM9SE06@%,HJ2U&L'>_9O7,+4BH5C)NR1<@(P!4J&-=:XC#C=.N^,QU M]*M0^-75483@'"@Y3SDL!7]R=7'/I4LDPH(%EB3A6O(6CAZCIP72BFULB' MF*"S'Y5=%1E.
L##%/2"(%A+*%<,!G([%\6;!V/IX15X$/|K;1).I>M;SYC M96\BNRHTG * AZEG(=<3W!WFI[,!6MXSG%BI8ETP%++)$Y=`WUXLO%6EB0" M!@K0[_4!/_*6ZY"O=U4Z. 18IY'[")S\L9\
((9[U-4!*O0[>L!K2E@+&1' 9, MGMGVL?]NM'55-CB%&=M+&;W.C?F84Z9X/9SGWV?3^N26_I1^S)=W4T)W7BR/ MR,+M^J.;1.0.XJ-1?
F![%Z^Q6$SVP00.+-7TATYDBZR/0)_3I>3Y8^KY[I:L21Y3D2]TJ"2I(M>^40!3\P2C5/H MFK\#W)O*<3-U#5'T<._XH KKX)]?;F83&L1+?[GC+E+@2@CF0*3D
MH!'9&=0N*@!]UGY++#%$OK,N>S1(V+M"-JWP%.A^MA[$"2/$MR;KY\W2S+M(5 M++@:8(&@*&Z!D!-"C)B5(;//REXQKXT?W\\.CM#9K)$ 1]Y']&O*?VDO .)=8-"30M--
+P5U1,O8:RR.4MTW!TAQ[!OB_[N<.M3K[K^>]Y^==I_N_%NVE<6[H0;+$["D =B0F;$7PI&2093YEU"3&6G:Z*Q[!0 M@=8/T=>LM? Z<#Y_FTQG<[*"\&!/x_GKPBY$A:ELB6'NUP-
)\:)AE([K^C:"R?-!4&N==8#,FT3[FH,-VWGQK_EL ML3CC*B"3CD,V=?T4(Z;<5I:L>"""*I7,&6V=TGJ-I7)=Z&+0UU4,'N+HOI6MW MX^8,O?YQ]Q*Y^B=GGO'H:[LB!:>U<9$'N€
HNJ2@DPF,0EEL/4WG8&*'O8V' M0>)I--JTO_"\|\A&C84R0+R3Y,\K,"NKZF/-5)=Y=;_I082.VV8U##2'U|C8D>AN'/YQN?QPBT&3&=5*WD8 26H&*2+7U
M(@G+8KU%PUVZO[WSD2CUD*^/VTW5%F>G4<'8&-MX%F]F%V$R7:GJS6RZF*3U MV._/RYOO\%|Q@7UXFH]S%K;BVD)!DW^BG"]PE7K-X=*1W1+[>I?/PF2M7,Y,;0A
M((_]H+|*$DYF?HE$;DA(BB(Q05LA67P^%?F ^VB({QL[S\--%Q_FOT!0]B'=E=@^3V8^/I++;[N$WRYOI/124DX3 MEPPEE^6@G$ N"
(6DCLD[&KTK'D"QAO=[^+CIGF]XGZ\ INU_L_B%?PQC.(4 MG"]&Y7(^<3?+?.)\Z0Z=/ANA4> ^"X28BXI@&HP[& @)@$\L1YXBTQSK&A;D0% M?
NK>A3^/X]&ZFIRZM[Z<,>'PRI{GM_#3S7P*K%E(BH/=H'DL7J(86:89(M1I M41:V*GI8^/H;0V\"@'\,53\;8*V.A[CP_N;Z9IK5_)R:YSG%|GG\6N$$.-[
MA(BBNXYY9S]^J+SG/SFAOWU\HHITQI]9=H5ZZGN2\#XN/Z0O|L_[-FGA')=2 M2"1Y+DN8;(FY\^#T"VMH(R(TK7Q@:2>;KW]D\?7/MPL/_1!;ET&A\V-HTX$
ML3Q1'#=8NSIRM/&EL3\7O@U$NY\!R]6;1YLC MI-X8K=^ME)X3(P.R.H;\V)M'5C(W&WE =/N"X]*M\0;5[^<<^F&,\?9RR& M4@,]]XR'3=N9"-R
8!@PD=^"MS0WB7F3N]!HJO\'.#^V$E)7Q0H"W966>@J M\VBS0:@9)U>;O*,_O0C_<[-89LG=Y[D_=O.5;$_BRNW^^Z9143E)*1<>)1E@ MB|)HD8Y$HX@-
MS(EPE48SX<9@:,ZREQ Y,IF\6|K-_P,DET%$YMW"_\1PU6\ ME1>IDT C-
CD2,Q#PG#/,\$RBYR"RW8%EBZ5NR10SPU_PUJFZ?"$H&IB>\D<),)FEH8%'SR&W8LCXHP'D(D#21B)E4N!AN+C"L?CIFY_V:C*.M7A/W!G;.\Z#BX2#K&UX\1#AII-
X3$1"V-.6KZACI/,S88!IPH%1!X#MR;N$$ M\FM?D*L5W-72@ :4_\CTSJ4UDN2 K+YF<@\;@AIP2**2>*$B3"^=I*QK0S% MV51IMWDOCNL/7BIYDU+TRRZMBT2+/\1BZ&
[@YV^L_WI_TO:N"$S@[ZX.TOR# M\4LK9V3BG*686MA4+MU088*.^:;OA&"74P&.W&N***5,.4PIDZ5G:?R0I1ON ME?.8[@X$]REO(A#\+*3Y8HK1D%L_AWZ>;5.',#
<)@1Y+P@G3D5>_"7R\2?TY12-J\3=. BUJVR. MS(4#.PR ^RL/(^ZM5#$*09f/W4:@$$#"O793N/B M;D"$)CY(IY#&4N:WKC4R%#-D3$A&19L(+ZT^CS[?I+(. ?5YT?B@A!M0COL9
ML&_ .8F.=ZE]H)406J&-&'Y?4QBD.-6(D\U,(.UZQ"*CT YA8 MJ3=`$]6$,RB'4@.JM[T| M@S #OKGEB,7 W/&83,FRD8EN2)>B-(/,/UP ;1' =VKG_88J3>@.F5ZS@*5 MTBDK$%4"
(DZE$5)"%@A D\781,6%*:QIY^L@/'-WI%$*-$H'X3%H-J#")5I> M')-2"$=04@I$+UUNG@P,G'F=!,@>RU"Z%?;<_5.C#?I])Q5P+(@UH4/G? BP7 MG9]LIK%\C/-
)%^XKK$]Z*#^N4+WDU">2-[I+-B>&K4::&(\24R82K"AG8Z>[-MCB:ZK5#J;.IV0.W'Q;[5KJO/R\[_\2E^NYG[K_FYN'EW-;?7%R&LYDK8Z:-A M%">T10WX2I&^I5.Y.[&Q:#7I8P<-
=^T:T9+(<3GU 4"#@LA8+D):%*/S ! M*^W#(?'V=,XI[5KL6/EF^;6,3 X3P[K=BUPF8XT6)"*=3Z1=."0J;0G@2 M(A>AWTV8 ^]#'2GTHL A2%_ #+$&#@T<
AO9^M3S/Y\G@9RSI_#W[GC5#E% M7(H81<8LXCP(9"47"(X%\A0)7)G2,V2'4UNGU#260IX9O1_K,'SVTPN_G'R'-MI(R>>,K5EX)=&/$>/X_(.9ZF- 1MA*;+*0N@=/45..XI8\D%K)ZU]?
O_XK&?I MHSQ#G.9&@1@^?X7-^_"AQ3J: QNMI&(.&98->'XWTYH\^TZF8*F#W2)+I[D/ MT=3N:7H,Z%LR/N60:.. HW14/D M&'> #1%5O=>ZH!{T5[)!H+2O9YMS)F[48& 8+
VHVI=YM(N;^>7J%*QJ?"*8V#Y,H7. MDSP{L$(B R<@C[O!CI@@"!+>Q=`]G#SG-^F@#L>_ & 6*P3GV(<|>-H56KQZ'N M>'G5Y6;;Y=`DTEV7REDR-?K=A M*-IG'G0:-VB+]J
MW/)Q'K^M7U9^O.E>PZ_? =CO\8'WRV2 K4C!OV#4(LXH!6:3051H89O"*+R M$ZIP_2FI^Z+FN&IX5I2:+K[_|.R\W"489XO5BJN?/O!YC+VJ;7WHSI4KO1^ M&H^%QF.IGBS\M(/3-
'Y(CS_]*:ZZ-;/KMUAINLO4WKW#?E^G)49)IIW(+8TBD_V)_W7&&ZF\.TWH&/=;83M-_|^\7'UR1>0 M7DRGFT$$']*GZ+NK6>Z;6>_@%:7KY$.>%V!35$@29_)K>!(YS112FFCG>/*P
M^4J[G&,P4C<4/Z,NO_!7JZM% RFC?2-^/"/Y.:(H&@F!@K7&%A,ZK,4M+5: M,E6ZJ_.9V5L-*.L1,IF.0:Y=)=R4%F"3U"(#WXPO)Q MQU#+Q%;SR1P1%5
M>EC.#SJ3ZRC8CYK)=0PA4WF(?TN.Y48)A2\"=1C+ZF%M<)=+*88$2)\D1C MQKS%A97H!1%-*LX0@+N2TJX=9J^I_Q6$,ZYS<^YSL+&MM^QP[2AX$[DO&E. M4^6\O7'
'<%14!JHT\X?BEQZ?]OE@5Q#=&0,$3=@8#X!+D# 5V#D=?P>I]VW MU=W)\/&2*(^26U0H#+/*6<)69D@Q*>;>4,5%K3\)=R#9-5-0H]GA$HCTH"2 M?8ZK:^W
T:IV_D=\.U1M"0Q+]5.L731{!+=3/. MXZE742P:I*V?%RS.[13XN0C7DIDDQLY.?F4*<]#PE1//)T?F.9$<*15OEW+ M4*2I]*Z=E^X6E8>E094[5Y0!T,Y'RXH?
8Y7^4_6CT(R1HT+%A&= M\KOFG"*=KY0SHSUFTF/K2N>]R2MKE/67NIA#$1;4-0UZ5N8NIM(ZWV>BRB1 M-&;U)IW+-C[
;ZVWQJOD3>G,^2&;&IE*55(17IR\!5%!1\M>=3/@Y@8VG#6 MS>YB(4P-YEA&I"V&6A@@R#T,C]Q&UTBG!?.E=QD*C*>E94![8K6"% VM&P M7%I9\Q3#"Y9<4(R[P)#4P
V/V:+319V*1F!\$AK5WI<3@^R*A^T9]"R8] T -MHE&=EW)%?[GLPDC 8^R=0L30WYX20[9F%$F^N 3.2I3%7TXORT+=Y$![CF)-
M#6E@@VPXV_0=O6!\$I6!=Q2XP@K.$V[!.Q+.0CQ'#*)!61X\<.A*UUGI459Y MKF1-Y7E^6Z0\D@WH9R\)?I%_A16.4V6>3#;-JX%-8$XZ9&5 @0;M8)CRV&4
M,+3$$It$<5^B#.657UYO2+\K:,+Q^F_6^C^+5WDGGM%"WS_OJJ.T(D]&DI*L MQL=#(!:HI/A]]<#B1"+I4L=1'O=H[WO/]#6GTB,@.M]S=TDI/WH6[\0@]!"")
M31_=1>Z)_Q07R_G$9TGE?__;;+)V_OGW52)L7D34)8>[:NB!M" E+@NWG&(A.R>&%N!#XJ M3T48KE;/;6AMC&OWE&[S!S!]_FVQ[AU:<;U)^0-31@7!D/$V'U72($L(1@*K
MP*SFPO1L+>W]RCA:>&)(2PKQ ML_>!!3AJE.O547-@#OS|!_^*?3)##NKA*+2@.AN-IT8QRR1'3/K\]$9(R 3# M421)[^2Q8:)?)--'>6I:IA/ >@[W ,E5!OS7R6QR?7-)U\,:,26<4)1T[F$-
ME")#DT7*,D8CX\;*7E-4#D#^Y*.50I\"65="?K6!MW\^(IQ3%XV4A6LVG+ M0[QUM*LG*X))/F!28[_^6BE5QA* 3]8?@W$8*7S]%8GZR-.B*< .3$NOD6%. M(Q$XH)S&DWIZ85_-
VZ,FF*HJ2$-,)'"W.*.*&43I+CG0FV ME$=]C6EE[^R+\'<%^-LD\6FR^./M/,:IUT_V66\Q(%X8R"^9XE#+\[1S>) M"23@*,>),LR*/VOK)C$&E G49I+/$L MXJ!X1%I;@;@#&3C\-
,*1Z10,9#Y_-U?=E1Y5]=8Z^LF,P.D#/[Z.3L UM MRH\Q\:E|@JC;Y.\FP< ,U6 #I*$D!QD\==/MI#Q%VPL THW=I70!@+5@*X- MCCX?@E^L=.=$6) AG3\@<.Z1IR&\11>D$
;;#/[<%/4AU*WUL-9V!,V/?@=+;W MRON\[V;?XR)G2C*OBR_Y1M_C(^APOMN^<^X?,@*728719(X((D3Q =. P3, M,"2$8BYA11RK,MAB"#-.6_G*6CFD+6)T%?DK[Y5U.O)M-
L_|*/\|6P\HGS%|U5IRO3CY7)?KBF_&ZV MG$]FBXE?))>^[S2MH:]&|^3/._03^Z8@WNH_Z_EDN;@^72!MY<1,,P|%AI*0# MK54V(B.40)A8RIB-GNG2T\3KYL7OK,)FY,@BSXS?;J?
N'P/2%#:P4LAK91#*MU"]G/0,)>2*CBU$S.[4T!9O(%SKB?[C+RX\#9<$LT^.:2TMS9"]S79 MU1'WU&Q=.LI$R,>LT/F9!!8(,H.'U^B338K'?#NSE7#Z"+|;Z"=235+!=9O
MZ4FK/L[!N%Q/6O^E6RR U9543O!9]JY7Q-?I3W$AG^*-G<\FLZOL:ITKJ)"! M&!T"\ICE1^:%01]<7]1'"%)IS%THG&?I15MFTE-.3%65X>D@8.\(>MNQYO!W(<.M]*52)J3(/%(>JUP/
%1^#!"$S'>N*1D:2?\,%5M*5@)?=CZ-%TQ8)I3M>TS MH>]&TUTLX61W-\N^\W!NQ3T7S WH]Q-'Z)(0AZU(%CF1]YY.$]0E-H@D%414 M07)9NJ?O"0&5&_`U[/AXJX!.>Y<%
[`67<[F>5_\G#-31CO#4@F>D<1QQ+G M_FF)#(4"-F\]^Z0[|_W8VV9).=:[oXF=U9L:N6++R$?+Q=+. .M O ,;2(H^.V.99S@K(%&A=DR"EU MH2GXM D",@U."YPN5C/X$?
7EGW;.1DA;IVTY]3I=ZDW$PB\\W[5+ ^N"54!F< M5PQ%1B$JLA&\$JGR_U%B#),ZL-)ULP,D51XQ<0fW1I00&C!(O=R"Q[')<0T MPC'!D!,0Y7 <,+)&&R2IM90EDOPO?2_]:"+;) ,.9TH.
,;?%D0-$[C1A='D=N6,S>>DHZ'80/JND.,EXXZ MH6|_P:XCX%Q(Z8$-'?/U0!L$=0KSXG=IMI/2EE-74LU*R+X)OQ^X"=D?(Q$^^ MQ_1W\Q7SZ&_^=-/;T(,=|^ WBPWD!}>^#77W

>EY9/-P)>)A4M:DS!RPHSY0 MYA+4<)X=21O*+CO7!H76D^!I)2)$Q((&(RJY\J7U#L40:(@.(NA8?+3H#EI. M[FI.%%[6"^>JX.9+BTMCG!84:T2MAZTI-46P31BB'@?K1:24E
Y!=E-3^.IV M"4UXT>E41O0_C$UZ]/#L,W$6FE5XT@?\L5G#>1[=AB43-5GE]U:/A:0\OD4) ME"R+@G'-K"[^N.M(-NS1D)'=00[I=O.'ZW$B,JJH1=Y2@4$ Y$1"<-@'I+VA
M4KH$VZ3XW/7CR6S5ZVA.WMF!(X"%N6WB%Y\T-U>]V%QFJ;7 MV!/18-#-ZIQ0*F9! 1?FJE^=QT//$]T_>O-S ,U5D@(.;2(EM+.W96NTI(&Y,GJQHM V980$89CWS"*6"F)"X^?
7$O03P,,R0NG,5<|$C).N-'"V-B"P#Y7F<%2 MKGU=ZG.\GOAN%FY\[BF>A<^W"Y#1Z[B87,TVIE5@F20W%F$"VXASRI%.@2!& MO>22*
(C|G^?9=MR6.ORM)B*M(2AVXXFTNH9.IIF==Q\WM,-.H $;BAC)UPI% M +F0Q!'CU+.#HP.H*TD\=GBY<^9 IA/7)PFKGM-AVP/YR/YC/)6.BN M="%X)E-G&L%=:4[+W-
Z.9]W/GH6CPU3C"1KPU(IA"W."'MA$<,.QN2$M3$ MTLG[+60T<6Z.IUNG"KZV^W1/_Z]V?C7) !9\QNK?"2*2#
MMLA*"8@/)'BM>SE2.5]1^4@<2S4*RO5'+ML^'OHQOGLH0_(_2:#+$?6).QR30TFSW)'E$G+1PSY5 MQ@BMHDOZ[R)M"=TI4.0!|JSFBFRK()P4*@25%(K6YDFH :(B2X$-
YQBW" 0] M_R[2#@3|<)'V&.DWIS^;|(W2W! B/8K<)G /I4068@L4I/(L2@4N1Z\$Q5^E M2'L4IGX*M,<(N*78[5G-,&A.M:0&*2IPL_3I'V M*
(Q[%FF/$7@#>O.KA;4F=GKO@H(=SA+:< -RL2Z1B+3-5R\T9\CH7'*F7H%1 MML[PTI/3]U-4:8[26%)44/P-*--|\;^%^3[ZK+$9INLC+555AD.;J*W M6")N:#[*
[!"59^KF4&I"2F(/4G[\.H AOA&8^+5@AJN2=_ "U&;'YKH4)T(-@ M14*^0FLI. O,(D)MM%X)FFCIF;J';&]D:Z'D(FROYI1!TMVW9E>.Y-J-8G$ M8 ?1L(K@D_*HD?9,(BP9_ =
<"E%Z?L-!HH((132@>T*5@B0=C1L?WY8NP2 M=@9YQA7B>3 .!^KED-OHZ3,Z>)GZ5^R4GW205H:J0:T;UM12G'L,Q0D)&G M^;U-"&X\G
1..IN8#PSKTG.!AU8#ZU::C*Z1S7P&,&W<07^.DOG/YL+T>\ MG]G5!+99+H\O@9^@7%0F1TJKD72)(VV$08(K9@./Q(O25FL_13] A?D4G2H(-MQ_'J9=:J-8M7^;F\,NHU7?
V=N./\L3= YO^-E\H:&X15B"H?UB^.Z;!@VRC' M34Q@R7?YF/4K!=E/T#5^B1U*P]/5;5;5>_|@P1ZZBHO+1"N5HUY_[*?+0L&.99S@U[0%#C'KE_1
M*@V)=TU!WO,KKI.EGT|0W5W=6/"_^OF\EB-3_)+X!-@+&YVS,8, M+RZ93H1XY$RBD/H(S%R241@U'I#20(OLU^[^[%?]J5+\H?3I?%1.%7)OIRY MM6O3/7MGIY?=0V[&W?
XXX35\G2V#L#K D0WZ7-M-R*J>4)<*8:L$AR1E%+$Q.OR[X"/WP%V)_7E=RW9^L?B7;G;U M"VS\L'8EUIF@'I'12^9GN%//(0D4\1YOG60%@)T9TITB>TD MH)5&L?$UI"L-
1VV=6F_)QROL"BSYV@F+'F+LD"_?;/4#IB,R2.BB4,\"-@N5#*4C

PU#YRY$S.1289;#(\;5+Z58;|%-7M$#Z#;A4$ MI`UVLV(TMQ"."!U0#+!9N(@>_7T !=*TFA8DJ9T)>$TI5(_1%*5@6&X/G5+ M.QTS@9HY@B,]+C[.N^^3!:P'A_RC']M9>)-2S-,%\@\^@7]Z2EOY:1\LE&PM_MQG.A%.S]IQ^]FWO?^8LM8P84++#&5WUJF$FG)(U($<^Z9CXZ6GGRQAYS3\QEW M]f#O:A7/\TNLGI$/D@EGF9=F'$F-PD[=[%PIC7R91&D#_P;.]WL6-^?)3W$6 MTV1Y2;67RE&%9&Z#X$)(9+R-2,KDP7^QE(G2$Y5VD%(WI3>N"IXF]P;4Y_Z MNN>,6DS"QCQK&HZ8X4LR08^",<8T% MTN"/P6\9N&>;4D%[93\/7;M\\>6VE&,(EETQP380 -T?MA M$'V*1*) @D5<<86LT181V#7&>"Z"+|];M8V22C?S"IPT!27(J(s)8J!W%7\3+*+EH:<5M/P/F@Z@P0>@/*<|<4L;ZO=G=E M24?IA3.(69-[<"A'!D>'B,(FC^$S@I3.IVRCHS6E&8+PCAZ4P>*N[*Y\LK.K MN-H\.@4OO56(^ A$. ^^1]ISEH,,2W#D36+]9T@>\E/L/5KH-7"BN&2:W%L"^MTU&F@\]U8& RPR5*@]VTX(LY02A6/($#U:OVU ?NVM|H0+">PSU M"PC'V\9*86IQ0#) MUIX+ K3 ,]HYQ8!\^3KO;]Z^/OR$W;T %V/D*3 $,P;G.2?YV8E<\,?8"H$9MB_&9X=A=[#KTL49T8@B2W8AB;>E3[;FH]S9T9-7DY2-+-ZLS=YK)@8$D48&.%!1&!'V5POGHM!/$V M).QE^4N@N^EI+2JC0 @-KGU#%N9E=V&&SQ$OI&#*E3P3EO/.1?]S8DM3,"0S[2HG8,@;$;0.:U=6-E=G^YGT:C2 @L*#BE(12' MTS2 /%A,B(D LL!_#@7K$$A2)^"L=;3T@%/ ;)K=_T,5)E> M3:7CX=> RKZ./K_B !S_-IL#HU>SR7|6XZLV7=N+=XM/\.?=#/;U[<=NL<@O ML5TF9IQ.1$+$L1KRP1FR,3$$6OYX)43B5%I)!Q%:NT6@C%].CU$#BOCHUH"|-MGLPVO<76P;Y;WGZ*Z686+L+_W*RO,N>[+9_C.VL.:CTK?%@<1>"IAV>^P_SD$^O4 M N8!*Q5H]FCS $R?==Z# +#R28')F8%+)))J:AYXD+VZC(XT&+R\LMUM:8$ MEETQP3:E%E_@7VQ2U8;@I CEB,35BPG*(6VU0T; $:N\E=KWRFX&-K4'JB0(@#GD=?"Y#3L@K9) @E%/ M_^9<,M[+.]HWE59T82B W1C2;"$M>7UUD G"(2$1$>!>" 4I$ "DES9Q*QP M/5\<*=]#/M]D,*QS QMH#]1F65|((1K9&E)%\XUOQI"EQ0@:GB":3;&]>6 M_U@MZ4>!M:,E_1C)U>Y,?M)2C9,F7 2'(+]/B-L8D=.TH""%8@Z,HG6|QD3|M>"WI1T&VLR7]&/G5!OYI2S4#TH+V2"DB@7TCD<,JH:A89$"T(.(OVI(^&/C! M\FL@12QR0H!'$))5!AB6>G\R(A 2G&2T] M@6X/.8VE) 8BWHTC_MHAZ$.@],#!.H1Z-0?)_3+QN4+U}3=@D)Y*Z ;-8CFY!L8^]+N. MD?P7+A5./ ;.$/.8YO:E < G-O.84^M#0ZVQZC'VP["&COIRAB!\I#4K_*M MUKY[=CGZL%[^XM]V'KY,KH'3A_+$X3+?$]UZO.A:K7QXT*>M7SBR_#B8^$(5 MP.]?01U_LHNG[|)?LZ[|:58,T M]{\.0^/ENY@"S0MTH$--]2[C7%%[#;83V^6WO*%]B\7G4,5>HBW#NY@#HR_7 M;%RO;/.#9#ST'F|8@$?2?YU|F^1%O\!Y\1/X1|%R'RY.I6(B 6=]K42R(5 M/>8G],7EURX4QNO9FE6"J&%H;9=&(UAIA,\NY]>S\'9JKXH@l73%*B?^()RV M2J(1E/*.?S5;A'DYF)XM6>4X'FS]7LJB$.#^T?WI@;ZR%G#'TE6:>P;9+_S=3D_>;OO6K7+M]"CH>DBEA8VW>+T!NKJD4 MW'T'UJ_RVMSO6["?E)K%Z&G&T6O$=#>S<+D^R3H10'Z]P%^^U8GWZFJM52SMM$ MW8 ZK&B[^ :?]^O[FY\F5U^7B\\7GSZ/HA;'OU>U+ ^.X#106GO!? N(_PGP/*U7<:W=C+_W4YO M"D"S9N-LMCLI@/=W9M[_^L5RIT]NOLZN/_C2S=V#!7M#5K;'U$TZK MC?AOYJO$]TA->"]7>|* =X#H$YOO,JAY_,KW.+ _]D%Y\ZX4R#-+[7A\X8MEXUO/;*O>LE MA/^OZP"C>"=]0?F[O!W!> H;-YWL_>Q*P"TY7]5\& M'&;]6NR>;%P:.,VU#/H(Z;:)N_J:KEAZN1LTI.EJG4R#D5KNR@JXW-'T.Q. M;Q>319DFG9V+5NMJ/-'WWBF>RNA]7O[Q<>X_S+\LYIN+=ZO24KEV[UX?]-,R M.!358\16&>$/-TNP\7".SZX*FM+=JU;K@1R*Y4$!M7, ON^6_XSW)W4LU8_< MYP/56B(+')8'Q589X;>P:#>+=YR6*(CN6+);:^10%/>+IBW<7M_$+]UF6CKP M.4O=W*]G5YIH;(_Y3K5B=R&$^PBQ0=A_GW33E9@_I'!TU_%5GDP^O_W%_GL, M[/=^K%[AO*0&])%@@VH`/_KQDXG;>(WU#]ZH&8,53CXP7JE^+|T%>N;:D$ MF+&IG6T(?G?|+4\!P;6{IZ4|=V&?;%>;T AI3A.LNU$8"5=O#W+UFL@*!"$-MM>GK;2&P(#:5ZSHLHX;] EU<0%SX*?[K9C*_MRMEC/(1G^D%_+S[&.41;UW;F8^G&GS[KG["O M03BG]_K<+U*MX'H$"H]WY'/N:Q>$_HS^)C_M]0K,Q%4WOSVY=63[BO5@>B[O MKB?SM1/)T^ES\B;Q4!/)[H7K=5_MA;(!3BZ5H'Z8NPQX/;Q2LZ?DL*R[/8S7 M,_(!DMX7@>/Y6O4N]1X)R@XA_-VK>,Z3YN_^Q+_[$X_#)OS/EVX5CY^Z/9ZN M5*V-;M_NV.IL;0"FTWNRRFR-Y\O5.]:WBKOKPWMM4*ZNEJM;2[/%['<+F_?S MS??U.F^U6,Z^N.G;;G[Q;>]F_YR7P.SHK]7TU'8AUA407P.P9Y]!Q<7G[_[5 M8ED(W:V+UO3L>H*X3QBU@Y_2. W&:)R-=DCZ73]1-(+2Q_F\.%#/UZRWGP9@ MM4,@M;-T_UK>7OQ[^A;9Q)0;5NOW]C@7F9OCPA: 6=D=^28[!3+X^V!;1N: M/XP\H2Q-W_ZZ15X4)^^S9?A)0NE=VB_S]6[I'DDYD=+L#+'T_YR_F86W>=S% MAW3/Q,_S62;\U?=Y^,<\U]+#[.IB%GZ;?5\LM[!>5D<5=6E]^!P;O7RZWZ#GS M'!^K?0$U.?YKU9S",NHQ6+SM6)&+Q8>T8>-#6FGP/1N%M6/P1ZM=\RQN0P8) MNW8;\QWA:WIGX>6YN39\,Z=AQ=NK;A86K^?P/Z4TIQ)U2Z6EM&CLD!4UJK7 MWT-8?)A_6'Z=OP$*%Q_#A]Dl-^^7^>?_7GQ*4Y_9^K*<9@'E%RI*[52)\U>[MW%I&GP["4/MUEVAS7|S)IM6\WV'VM'#.JM4;_FV?WA MGM!2*.Y;MYK'.=2Z'I91;W8?>F6=EKB^M[SM;1-21F\YI;*HCY'"%WYY8Z?3 MVX]V$@H!M6W):O-0AN.U1S*U>ZIRR1TH7$6-A4SCKC6KC3D9"-P!V=1V.^\; M^B^^7Q6SC3L7K3>A9*B7>4\#:&WHNR1A2@)XK:UZXT7*8#E'F&U8$KO22UN M4'>N7&\PR"EV]9"@JO?YW$R6M_EID[4H(;RY7CWA]GJ2@\)@(W)9"]\A/U9L3M,A#N8:*L'38^,S. +U;'R.KQMZ_=%*3\;5DJDCSN4_5&C S.W0T197/XOX_+ M=S/?71?*H??Z0+U){\6PWBVVYA!^D60>"^D]^\]%>%.YHP%BK(S\%O.3.=\D MO\] WO<;O?!N*?MTI/":Y^0?EE_C?.3]O?T;O:!N*7%U!/]f\VKK;J9V_LMD ML2Q8ZMZ]:B\X6TIG'110;0!?6I93,R${ENS5K=!2,FN_:*IG_N^,?WD #ZW=M"\F64ED]A541TKOWR>\=|U^ZQ;Y^K2'/P#]=NQ>(K22P]HJGNK?SS/, ^=?MM M7; 77"TEH/.)I?;$VNQ098X* ,9MO5YXM90PVB.4%E+\15XU>[Q0+X!;RO)L M$T-U)Z0[N57R;HU>>+24@WG&?!MMWB?#<6R_*FTI3=)@FVHW^ODK,DRA/M7#R_<"L:4$2'^153^7PB339;<R+>5">@NL M]K$V6\Q^FJ5EOD)4K/]XQY#][@2TE!4Y()SJ'00/M[_*M0IL7[,7="VE00X(-MH]77!][-%A,0YI>Y7;T\.9_GONG\JL*S#,")3Q'L^4R1=PGZLE'@D8(7GWJAM%@,'_>Y<]I0,]/UR/^67;$Y_GF#K@A4GX1[*XDG.>8\P:E<*[DD[^2[HLZ6]-M8;-7VEM1:>AVZ<5TNL66E!F7NWOA!K#:,SGWH$#^GKQ>;P_]/87]|RGLQV6TMEO/IESB_7GQ(7^8!]*N.-[IGV6U[Z#@?X;|@JGL*E;H2+S<^7:G;_?EC?;@M M[+<"R9?)\F3W^LE2U2["#P3EB0 JH_+I9AH)=ID)DKR9TWY8QO)W:JY/@V;5FMM4ONQ^%T0"3UT_EC8+9GV6JWVH^#[.!@FC" *[KR)1B[+&$$GRQ7[4,[$$.X M31 -&<,O\^O9LJPM?+1DM;OLPTWA2X&T90D+ ,9[U6K7V$^R@\W!=A2Z!)F#Y'/W-?+*Z)#P%LKVQ^ MC'+PQVZ\<# QWGG1RP'/_G,".7@W6P4+P<__M0+'2E0%]Z^_DE%D\WRX?'2 MI6+OPZLW4CK>B]O32DM/>54OAFVC\WVWW!:.)M_?_RN-I/|/Q'F/_.:WZ)L_MR+\XNXC_]W_]/U!+ 0(4 Q0 (%*&%UGC+T<4LP< 4E / M_" 0 !E>#,Q,3 W,S$R-"YH=&U02P$"% ,4 "!2AA=9IRD. M]!T' #H) #P @`!@!P 97@S,3(P-S,Q,C0N:'1M4$L! M A0#% @ 4H876<%#+R>(!0 XA, \ ( !J@\ &5X M,S(Q,#&UL4$L! A0#% @ 4H876=MQ;!EB+ EB\ !0 ( ! ME1$# `-N<',M,C R-# W,S%?9S$N;G!G4$L! A0#% @ 4H876<)F(- !4 (!,;3X# `-N<',M,C R-# W,S%?;&%B+GAM M;%\!+ 0(4 Q0 (%*&%UFU[#G\)M0 /?F"0 5 " 8^B M! !S;G!S+3(P,C0P-S,Q7W!R92YX,6Q02P4& H "@"# @ Z'8% end XML 114 snps-20240731_htm.xml IDEA: XBRL DOCUMENT 0000883241 2023-11-01 2024-07-31 0000883241 2024-08-21 0000883241 2024-07-31 0000883241 2023-10-31 0000883241 us-gaap:LicenseAndMaintenanceMember 2024-05-01 2024-07-31 0000883241 us-gaap:LicenseAndMaintenanceMember 2023-05-01 2023-07-31 0000883241 us-gaap:LicenseAndMaintenanceMember 2023-11-01 2024-07-31 0000883241 us-gaap:LicenseAndMaintenanceMember 2022-11-01 2023-07-31 0000883241 us-gaap:LicenseMember 2024-05-01 2024-07-31 0000883241 us-gaap:LicenseMember 2023-05-01 2023-07-31 0000883241 us-gaap:LicenseMember 2023-11-01 2024-07-31 0000883241 us-gaap:LicenseMember 2022-11-01 2023-07-31 0000883241 us-gaap:ProductMember 2024-05-01 2024-07-31 0000883241 us-gaap:ProductMember 2023-05-01 2023-07-31 0000883241 us-gaap:ProductMember 2023-11-01 2024-07-31 0000883241 us-gaap:ProductMember 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DE 56-1546236 675 ALMANOR AVE SUNNYVALE CA 94085 650 584-5000 Common Stock(par value of $0.01 per share) SNPS NASDAQ Yes Yes Large Accelerated Filer false false false 153613744 1839815000 1433966000 154431000 151639000 1994246000 1585605000 805198000 856660000 386009000 325590000 914598000 548115000 1027702000 114654000 5127753000 3430624000 571408000 549837000 556593000 559923000 3444349000 3346065000 266092000 239577000 1102716000 853526000 579773000 444820000 0 908759000 11648684000 10333131000 756983000 1059914000 89869000 79832000 1356804000 1559461000 331294000 286244000 2534950000 2985451000 568407000 579686000 319080000 150827000 15599000 18078000 465233000 381531000 0 33257000 3903269000 414883000 31043000 31043000 0.01 0.01 2000000 2000000 0 0 0 0 0.01 0.01 400000000 400000000 153613000 152053000 1536000 1521000 1192363000 1276152000 7884044000 6741699000 3648000 5207000 1188435000 1675650000 -180112000 -196414000 7709396000 6147308000 4976000 5950000 7714372000 6153258000 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(Synopsys, we, our or us) delivers trusted and comprehensive silicon to systems design solutions, from electronic design automation (EDA), including system verification and validation solutions, to silicon intellectual property (IP). We partner closely with semiconductor and systems customers across a wide range of industries to maximize their research and development capability and productivity. We are catalyzing the era of pervasive intelligence to power innovation today that ignites the ingenuity of tomorrow. We are a global leader in supplying the EDA software that engineers use to design and test integrated circuits (ICs), also known as chips or silicon, and we are pioneering artificial intelligence (AI) driven chip design across the full-stack EDA suite to improve efficiency and accelerate the design, verification testing and manufacturing of advanced digital and analog chips. We provide software and hardware used to validate the electronic systems that incorporate chips and the software that runs on them, including cloud-based digital design flow to boost chip-design development productivity. We also provide technical services and support to help our customers develop advanced chips and electronic systems. These products and services are part of our Design Automation segment. We also offer a broad and comprehensive portfolio of semiconductor IP solutions, which are pre-designed circuits that engineers use as components of larger chip designs to reduce integration risk and speed time to market. Our high quality, silicon-proven semiconductor IP includes logic libraries, embedded memories, analog IP, wired and wireless interface IP, security IP, embedded processors and subsystems. To accelerate IP integration and silicon bring-up, our IP accelerated initiative provides architecture design expertise, hardening, and signal and power integrity analysis. These products and services are part of our Design IP segment. Summary of Significant Accounting Policies and Basis of Presentation We have prepared the accompanying condensed consolidated financial statements pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). Pursuant to these rules and regulations, we have condensed or omitted certain information and footnote disclosures we normally include in our annual consolidated financial statements prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). The condensed consolidated financial statements are unaudited but, in management's opinion, we have made all adjustments (consisting only of normal, recurring adjustments, except as otherwise indicated) necessary for a fair presentation of our quarterly results. Our interim period operating results do not necessarily indicate the results that may be expected for any other interim period or for the full fiscal year. These financial statements and accompanying notes should be read in conjunction with the consolidated financial statements and notes thereto in our Annual Report on Form 10-K for the fiscal year ended October 31, 2023 as filed with the SEC on December 12, 2023 (our Annual Report). Use of Estimates. To prepare financial statements in conformity with U.S. GAAP, management must make estimates and assumptions that affect the amounts reported in the condensed consolidated financial statements and accompanying notes. Actual results could differ from these estimates and could have a material impact on our operating results and financial position. Principles of Consolidation. The condensed consolidated financial statements include our accounts and the accounts of our wholly and majority-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation. Fiscal Year and Fiscal Quarter End. Our fiscal year ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023. Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on August 3, 2024 and July 29, 2023, respectively. For presentation purposes, the condensed consolidated financial statements and accompanying notes refer to the closest calendar month end. Software Integrity Divestiture. During the second quarter of fiscal 2024, we determined that our Software Integrity business met the criteria to be classified as a discontinued operation, and, as a result, Software Integrity's historical financial results are reflected in our consolidated financial statements as discontinued operations, and assets and liabilities were retrospectively reclassified as assets and liabilities held for sale. We did not allocate any general corporate overhead to discontinued operations. See Note 3. Discontinued Operations of the Notes to Condensed Consolidated Financial Statements. Significant Accounting Policies. There have been no material changes to our significant accounting policies included in our Annual Report. Recently Issued Accounting Pronouncements In June 2022, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2022-03, Fair Value Measurement (Topic 820): Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions, which applies to all equity securities measured at fair value that are subject to contractual sale restrictions. This change prohibits entities from taking into account contractual restrictions on the sale of equity securities when estimating fair value and introduces required disclosures for such transactions. The ASU will become effective for us beginning on November 1, 2024 and will be applied prospectively. Early adoption is permitted. Any future impact from the adoption of this ASU will depend on the facts and circumstances of future transactions. In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The ASU expands public entities' segment disclosures by requiring disclosure of significant segment expenses that are regularly provided to the Chief Operating Decision Maker (CODM) and included within each reported measure of segment profit or loss, an amount and description of its composition for other segment items, and interim disclosures of a reportable segment's profit or loss and assets. The ASU is effective for our annual report beginning in the fiscal year 2025, and interim period reports beginning in the first quarter of the fiscal year 2026 on a retrospective basis. Early adoption is permitted. We are currently evaluating the impact of adopting this ASU on our consolidated financial statements and disclosures. In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which enhances the transparency and decision usefulness of income tax disclosures primarily through changes to the rate reconciliation and income taxes paid information. The ASU will become effective for us beginning on November 1, 2025 and will be applied on a prospective basis, with a retrospective option. Early adoption is permitted. We are currently evaluating the impact of this ASU on our consolidated financial statements and related disclosures. Use of Estimates. To prepare financial statements in conformity with U.S. GAAP, management must make estimates and assumptions that

affect the amounts reported in the condensed consolidated financial statements and accompanying notes. Actual results could differ from these estimates and could have a material impact on our operating results and financial position. Principles of Consolidation. The condensed consolidated financial statements include our accounts and the accounts of our wholly and majority-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation. Fiscal Year and Fiscal Quarter End. Our fiscal year ends on the Saturday nearest to October 31 and consists of 52 weeks, with the exception that approximately every five years, we have a 53-week year. When a 53-week year occurs, we include the additional week in the first quarter to realign fiscal quarters with calendar quarters. Fiscal 2024 is a 53-week year ending on November 2, 2024, which impacts our revenue, expenses and operating results. Fiscal 2023 was a 52-week year and ended on October 28, 2023. Our results of operations for the first nine months of fiscal 2024 and 2023 included 40 weeks and 39 weeks, respectively, and ended on August 3, 2024 and July 29, 2023, respectively. For presentation purposes, the condensed consolidated financial statements and accompanying notes refer to the closest calendar month end. Software Integrity Divestiture. During the second quarter of fiscal 2024, we determined that our Software Integrity business met the criteria to be classified as a discontinued operation, and, as a result, Software Integrity's historical financial results are reflected in our consolidated financial statements as discontinued operations, and assets and liabilities were retrospectively reclassified as assets and liabilities held for sale. We did not allocate any general corporate overhead to discontinued operations. Recently Issued Accounting Pronouncements In June 2022, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2022-03, Fair Value Measurement (Topic 820), Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions, which applies to all equity securities measured at fair value that are subject to contractual sale restrictions. This change prohibits entities from taking into account contractual restrictions on the sale of equity securities when estimating fair value and introduces required disclosures for such transactions. The ASU will become effective for us beginning on November 1, 2024 and will be applied prospectively. Early adoption is permitted. Any future impact from the adoption of this ASU will depend on the facts and circumstances of future transactions. In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The ASU expands public entities' segment disclosures by requiring disclosure of significant segment expenses that are regularly provided to the Chief Operating Decision Maker (CODM) and included within each reported measure of segment profit or loss, an amount and description of its composition for other segment items, and interim disclosures of a reportable segment's profit or loss and assets. The ASU is effective for our annual report beginning in the fiscal year 2025, and interim period reports beginning in the first quarter of the fiscal year 2026 on a retrospective basis. Early adoption is permitted. We are currently evaluating the impact of adopting this ASU on our consolidated financial statements and disclosures. In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which enhances the transparency and decision usefulness of income tax disclosures primarily through changes to the rate reconciliation and income taxes paid information. The ASU will become effective for us beginning on November 1, 2025 and will be applied on a prospective basis, with a retrospective option. Early adoption is permitted. We are currently evaluating the impact of this ASU on our consolidated financial statements and related disclosures. Discontinued Operations On May 5, 2024, we entered into an Equity Purchase Agreement (the Purchase Agreement) by and between Synopsys and Sapphire Software Buyer, Inc. (Buyer), an entity controlled by funds affiliated with Clearlake Capital Group, L.P. and Francisco Partners (together, the Sponsors), pursuant to which we will sell our Software Integrity business. Pursuant to the Purchase Agreement, and subject to the satisfaction or waiver of customary closing conditions specified therein, we will sell our Software Integrity business to the Buyer (the Software Integrity Divestiture) for a purchase price of up to $2.1 billion in cash, comprised of: (i) $1.5 billion, payable at closing; (ii) $125 million, payable in equal installments over five fiscal quarters beginning on the first business day after the 75th day of our first full fiscal quarter following the closing, subject to acceleration at our option prior to the closing of our pending acquisition of ANSYS, Inc. (Ansys); and (iii) up to $475 million, payable upon the Sponsors achieving a specified rate of return in the event of one or more potential liquidity transactions. </div><div style="margin-top:9pt">The Software Integrity Divestiture, which was unanimously approved by our Board of Directors, is currently expected to close in the second half of 2024, subject to customary closing conditions including the receipt of required regulatory approvals.</div><div style="margin-top:9pt">Management believes that the Software Integrity Divestiture has met the criteria to be disclosed as discontinued operations as it represents a significant strategic shift that has a major effect on our operations and financial results. The results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. Further, we reclassified the assets and liabilities of the Software Integrity business as assets and liabilities held for sale in the condensed consolidated statements of balance sheets for all periods presented. The condensed consolidated statements of cash flows are presented on a consolidated basis for both continuing operations and discontinued operations. We did not allocate any general corporate overhead to the Software Integrity business. Unless otherwise noted, reference within these Notes to Condensed Consolidated Financial Statements relates to continuing operations.</div><div style="margin-top:9pt">The financial results of the Software Integrity business are presented as income (loss) from discontinued operations, net of income taxes on our condensed consolidated statements of income. The following table presents the major components of financial results of our Software Integrity business for the periods presented:</div><div style="margin-bottom:9pt;margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:37.642%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.666%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.525%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="21" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">(in thousands)</div></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Revenue</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">127,917 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">132,898 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">392,579 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">392,860 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Cost of revenue </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">40,279 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">47,050 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">136,010 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">145,188 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Operating expenses </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">91,854 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">90,450 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-

size:10pt;font-weight:400;line-height:100%">262,745 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">258,008 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Interest and other income (expense), net </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">605 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">324 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,601 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">722 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Income (loss) from discontinued operations before income taxes </td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,611)</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,278)</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,575)</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,614)</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Income tax provisions (benefits) </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,202 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,822)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,580 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,318)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Income (loss) from discontinued operations, net of income taxes </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(17,813)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">544 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(13,155)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(296)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> As of July 31, 2024, the assets and liabilities of our Software Integrity business are classified as current in our condensed consolidated balance sheets, as it is probable that the sale will occur within one year. The following table represents the aggregated carrying amounts of classes of assets and liabilities that are classified as discontinued operations on the condensed consolidated balance sheets for the periods presented: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.707%"><tr><td style="width:1.0%"></td><td style="width:83.797%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.003%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> (in thousands) </td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Assets: </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash and cash equivalents</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">17,441 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Accounts receivable, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">78,930 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Prepaid and other assets</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">48,550 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Property and equipment, net</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,373 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating lease right-of-use assets, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,646 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Goodwill</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">724,294 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Intangible assets, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">119,141 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred income taxes</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,327 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current assets held for sale</div></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,027,702 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Liabilities: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt

double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Accounts payable and accrued liabilities </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">91,874 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease liabilities</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,626 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred revenue</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">233,794 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current liabilities held for sale</div></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">331,294 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:84.280%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.520%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> (in thousands) </td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Assets: </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash and cash equivalents </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,947 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Accounts receivable, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">90,307 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Prepaid and other current assets</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">19,400 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current assets held for sale</div></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">114,654 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Property and equipment, net </td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 0;text-align:right;vertical-align:bottom">7,424 </td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease right-of-use assets, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,906 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Goodwill</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">724,271 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Intangible assets, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">134,617 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred income taxes</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,380 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Other long-term assets</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,153 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total long-term assets held for sale</div></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">908,759 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Liabilities: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Accounts payable and accrued liabilities </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">63,847 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease liabilities</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,858 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred revenue</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">216,539 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current liabilities held for sale</div></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">286,244 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Long-term operating lease liabilities </td><td style="border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:3pt double #000;padding:2px 0;text-align:right;vertical-align:bottom">4,349 </td><td style="border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Long-term deferred revenue </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">24,301 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Other long-term liabilities </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,607 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total long-term liabilities held for sale </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-

family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">33,257 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:8pt">The following table presents significant non-cash items and capital expenditures of discontinued operations for the periods presented: </div><div style="margin-bottom:9pt;margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:68.783%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.666%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.521%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">(in thousands)</div></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Amortization and depreciation</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">16,317 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">37,495 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Reduction of operating lease right-of-use assets</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">2,162 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">3,481 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Amortization of capitalized costs to obtain revenue contracts </div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">20,808 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">21,398 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Stock-based compensation</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">47,476 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">37,495 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred income taxes</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">18,939 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">7,388 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Purchases of property and equipment</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">972 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">2,351 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 2100000000 1500000000 125000000 5 75 475000000 The following table presents the major components of financial results of our Software Integrity business for the periods presented:<div style="margin-bottom:9pt;margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:37.642%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.666%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.525%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="21" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">(in thousands)</div></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Revenue</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">127,917 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">132,898 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">392,579 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">392,860 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Cost of revenue </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">40,279 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">47,050 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">136,010 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">145,188 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> <span style="color:#000000;font-family:'Arial',sans-

serif;font-size:10pt;font-weight:400;line-height:100%">Operating expenses </td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">91,854 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">90,450 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">262,745 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">258,008 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Interest and other income (expense), net </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">605 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">324 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,601 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">722 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Income (loss) from discontinued operations before income taxes </td><td colspan="2" style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,611)</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,278)</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,575)</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,614)</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Income tax provisions (benefits) </td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,202 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,822)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">9,580 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,318)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Income (loss) from discontinued operations, net of income taxes </td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(17,813)</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">544 </td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(13,155)</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;padding:2px 0;text-align:right;vertical-align:bottom">(296)</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The following table represents the aggregated carrying amounts of classes of assets and liabilities that are classified as discontinued operations on the condensed consolidated balance sheets for the periods presented: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.707%"><tr><td style="width:1.0%"></td><td style="width:83.797%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.003%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> (in thousands) </td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Assets: </td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash and cash equivalents</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">17,441 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Accounts receivable, net</div></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">78,930 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Prepaid and other assets</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">48,550 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Property and equipment, net</td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,373 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating lease right-of use assets, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,646 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Goodwill</td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">724,294 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Intangible assets, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">119,141 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred income taxes</td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,327 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current assets held for sale</div></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,027,702 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> <span style="color:#000000;font-

family:'Arial',sans-serif;font-size:10pt;font-weight:700;line-height:100%">Liabilities: </td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Accounts payable and accrued liabilities </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">91,874 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease liabilities</div></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,626 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred revenue</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">233,794 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current liabilities held for sale</div></td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">331,294 </td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:84.280%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.520%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> (in thousands) </td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Assets: </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash and cash equivalents </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,947 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Accounts receivable, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">90,307 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Prepaid and other current assets</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">19,400 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current assets held for sale</div></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">114,654 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Property and equipment, net </td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 0;text-align:right;vertical-align:bottom">7,424 </td><td style="background-color:#ffffff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease right-of-use assets, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,906 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Goodwill</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">724,271 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Intangible assets, net</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">134,617 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred income taxes</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,388 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Other long-term assets</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,153 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total long-term assets held for sale</div></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">908,759 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Liabilities: </td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Accounts payable and accrued liabilities </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">63,847 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease liabilities</div></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,858 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred revenue</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">216,539 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="padding-left:18pt">Total current liabilities held for sale</div></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">286,244 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Long-term operating lease liabilities </td><td style="border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:3pt double #000;padding:2px 0;text-align:right;vertical-align:bottom">4,349 </td><td style="border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Long-term deferred revenue </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">24,301 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Other long-term liabilities </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,607 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total long-term liabilities held for sale </td><td style="background-

color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">33,257 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:8pt">The following table presents significant non-cash items and capital expenditures of discontinued operations for the periods presented: </div><div style="margin-bottom:9pt;margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:68.783%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.666%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.521%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">(in thousands)</div></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Amortization and depreciation</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">16,317 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">37,495 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Reduction of operating lease right-of-use assets</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">2,162 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">3,481 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Amortization of capitalized costs to obtain revenue contracts </div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">20,808 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">21,398 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Stock-based compensation</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">47,476 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">37,495 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Deferred income taxes</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">18,939 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">7,388 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Purchases of property and equipment</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">972 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">2,351 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 127917000 132898000 392579000 392860000 40279000 47050000 136010000 145188000 91854000 90450000 262745000 258008000 605000 324000 1601000 722000 -3611000 -4278000 -4575000 -9614000 14202000 -4822000 8580000 -9318000 -17813000 544000 -13155000 -296000 17441000 78930000 48550000 6373000 6646000 724294000 119141000 26327000 1027702000 91874000 5626000 233794000 331294000 4947000 90307000 19400000 114654000 7424000 8906000 724271000 134617000 7388000 26153000 908759000 63847000 5858000 216539000 286244000 4349000 24301000 4607000 33257000 16317000 37495000 2162000 3481000 20808000 21398000 47476000 37495000 18939000 7388000 972000 2351000 Pending Acquisition of Ansys On January 15, 2024, we entered into an Agreement and Plan of Merger (the Merger Agreement) to acquire all of the outstanding shares of Ansys, a provider of broad engineering simulation and analysis software and services, in a cash-and-stock transaction (the Ansys Merger) that values Ansys at approximately $35.0 billion, based on the closing price of Synopsys common stock on December 21, 2023. Under the terms of the Merger Agreement, at the effective time of the Ansys Merger (the Effective Time), each share of Ansys common stock issued and outstanding immediately prior to the Effective Time (with certain exceptions set forth in the Merger Agreement) will be converted into the right to receive 0.3450 (the Exchange Ratio) of a share of Synopsys common stock and $197.00 in cash, without interest. The Merger Agreement also provides for Synopsys' assumption of certain outstanding Ansys options and other unvested Ansys equity awards held by continuing Ansys employees. If the stock consideration to be issued by Synopsys in connection with the Ansys Merger exceeds 19.9999% of the shares of Synopsys common stock issued and outstanding immediately prior to the Effective Time, the Exchange Ratio will be reduced to the minimum extent necessary to ensure that the aggregate number of shares of Synopsys common stock to be issued in connection with the Ansys Merger does not exceed such threshold, and the cash consideration will be correspondingly increased to offset such adjustment. The Ansys Merger was approved by the holders of a majority of the outstanding shares of Ansys common stock on May 22, 2024 and is anticipated to close in the first half of calendar year 2025. The Ansys Merger is subject to the satisfaction or waiver of customary closing conditions, including the expiration or termination of the waiting period under the Hart-Scott-Rodino Antitrust Improvement Act of 1976, as amended, the clearance of the Ansys Merger under certain other antitrust and foreign investment regimes, and the continued effectiveness of the registration statement on Form S-4 (File No. 333-277912) filed by us on March 14, 2024 and declared effective by the SEC on April 17, 2024. We and Ansys each have termination rights under the Merger Agreement. A fee of $1.5 billion may be payable by us to Ansys, or a fee of $950.0 million may be payable by Ansys to us, upon termination of the Merger Agreement under specified circumstances, each as more fully described in the Merger Agreement. In connection with the execution of the Merger Agreement, we entered into a commitment letter on January 15, 2024 (the Bridge Commitment Letter) with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, a senior unsecured bridge facility (the Bridge Commitment). The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7 billion. On February 13, 2024, we entered into a term loan facility credit agreement (the Term Loan Agreement), which provides us with the ability to borrow up to $4.3 billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial Statements for more information on the Bridge Commitment and the Term Loan Agreement. Business Combinations During the nine months ended July 31, 2024, we completed three acquisitions for aggregate purchase consideration of $159.3 million, net of cash acquired. The purchase consideration was allocated as follows: $78.9 million to identifiable intangible assets, $97.5 million to goodwill, and $17.1 million to net tangible liabilities. The total purchase consideration is preliminary, and as additional information becomes available, we may further revise it during the remainder of the measurement period, which will not exceed 12 months from the closing of the acquisition. The goodwill recognized from these acquisitions, of which $62.7 million was attributable to the Design Automation reporting unit and $34.8 million was attributable to the Design IP reporting unit, was not

deductible for income tax purposes. We have included the financial results of these acquisitions in our condensed consolidated financial statements from the date of each acquisition. These results were not material to our condensed consolidated financial statements. Transaction costs were $53.0 million and $110.2 million during the three and nine months ended July 31, 2024, respectively. Transaction costs were $4.8 million and $9.8 million during the three and nine months ended July 31, 2023, respectively. These costs mainly consisted of professional fees and administrative costs for closed and pending acquisitions and were expensed as incurred in our condensed consolidated statements of income.
35000000000 0.3450 197.00 0.199999 1500000000 950000000 11700000000 4300000000 3 159300000 78900000 97500000 17100000 62700000 34800000 0 53000000.0 110200000 4800000 9800000 Revenue Disaggregated Revenue The following table shows the percentage of revenue by product groups: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">EDA</td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">66.9 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71.8 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">66.8 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71.3 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Design IP</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30.4 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25.9 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30.9 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26.7 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.7 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.0 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table> Contract Balances The contract assets indicated below are presented as prepaid and other current assets in the condensed consolidated balance sheets. The contract assets are transferred to receivables when the rights to invoice and receive payment become unconditional. Unbilled receivables are presented as accounts receivable, net, in the condensed consolidated balance sheets. Contract balances are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%"><tr><td style="width:1.0%"></td><td style="width:68.752%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.605%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.608%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Contract assets, net</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">693,874

</td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ccceff;padding:2px 0;text-align:right;vertical-align:bottom">375,904 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Unbilled receivables</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">33,603 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">60,016 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred revenue</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,675,884 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,710,288 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> During the three and nine months ended July 31, 2024, we recognized revenue of $216.8 million and $1.3 billion, respectively, that was included in the deferred revenue balance as of October 31, 2023, including previously unfulfilled contracts that have expired and are no longer subject to an implied promise to provide future services. Contracted but unsatisfied or partially unsatisfied performance obligations (backlog) were approximately $7.9 billion as of July 31, 2024, which includes $1.2 billion in non-cancellable Flexible Spending Account (FSA) commitments from customers where actual product selection and quantities of specific products or services are to be determined by customers at a later date. We have elected to exclude future sales-based royalty payments from the remaining performance obligations. Approximately 40% of the backlog as of July 31, 2024, excluding non-cancellable FSA, is expected to be recognized as revenue over the next 12 months, with the remainder recognized thereafter. The majority of the remaining backlog is expected to be recognized in the following three years. During the three and nine months ended July 31, 2024, we recognized $21.1 million and $73.9 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. During the three and nine months ended July 31, 2023, we recognized $24.2 million and $75.8 million, respectively, from performance obligations satisfied from sales-based royalties earned during the periods. Costs of Obtaining a Contract with Customer Capitalized commission costs, net of accumulated amortization, as of July 31, 2024 were $70.5 million and are included in other long-term assets in our condensed consolidated balance sheets. Amortization of these assets was $12.6 million and $36.3 million during the three and nine months ended July 31, 2024, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income. Amortization of these assets was $14.0 million and $40.3 million during the three and nine months ended July 31, 2023, respectively, and are included in sales and marketing expense in our condensed consolidated statements of income. The following table shows the percentage of revenue by product groups: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">EDA</td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">66.9 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71.8 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">66.8 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71.3 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Design IP</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30.4 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25.9 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30.9 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26.7 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.7 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.0 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0

</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100.0 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table> 0.669 0.718 0.668 0.713 0.304 0.259 0.309 0.267 0.027 0.023 0.023 0.020 1.000 1.000 1.000 1.000 Contract balances are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%"><tr><td style="width:1.0%"></td><td style="width:68.752%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.605%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.608%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Contract assets, net</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">693,874 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">375,904 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Unbilled receivables</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">33,603 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">60,016 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred revenue</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,675,884 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,710,288 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 693874000 375904000 33603000 60016000 1675884000 1710288000 216800000 1300000000 7900000000 1200000000 0.40 P12M P3Y 21100000 73900000 24200000 75800000 70500000 12600000 36300000 14000000.0 40300000 Goodwill and Intangible Assets Goodwill The changes in the carrying amount of goodwill during the nine months ended July 31, 2024 are as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Balance at October 31, 2023 </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">3,346,065 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Additions</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">97,521 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Adjustments</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">173 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Effect of foreign currency translation</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">590 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><div>Balance at July 31, 2024</div></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">3,444,349 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Intangible Assets Intangible assets as of July 31, 2024 consist of the following: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:52.262%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.962%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Gross Carrying Amount</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Accumulated
Amortization</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Net Amount</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="15" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">904,381 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">711,119 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">193,262 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">314,154 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">242,955 </td><td

*style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71,199 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">176,343 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">174,724 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,619 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,925 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,913 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,407,803 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,141,711 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">266,092 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:8pt">Intangible assets as of October 31, 2023 consist of the following:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:52.262%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.962%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Gross Carrying Amount</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Accumulated
Amortization</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Net Amount</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="15" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">842,448 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">672,480 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">169,968 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">296,883 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">231,557 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">65,326 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">175,747 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">171,487 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,260 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,925 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,902 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Capitalized software development costs</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">50,795 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">50,795 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,378,798 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-*

color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,139,221 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">239,577 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Amortization expense related to intangible assets consists of the following: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">13,447 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,436 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">38,373 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">31,427 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,058 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,011 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,467 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,945 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,063 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">558 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,465 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,257 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Capitalized software development costs(1) </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">557 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,626 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">18,572 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">13,565 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">53,317 </td><td

style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">40,258 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt">(1) Amortization of capitalized software development costs is included in cost of products revenue in the condensed consolidated statements of income.</div><div style="margin-top:8pt">The following table presents the estimated future amortization of acquired intangible assets as of July 31, 2024:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Remainder of fiscal 2024</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">17,344 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2025</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">62,103 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">2026</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">51,778 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2027</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">46,831 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">2028</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">32,099 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2029 and thereafter</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">55,937 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">266,092 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt">The changes in the carrying amount of goodwill during the nine months ended July 31, 2024 are as follows:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><div>Balance at October 31, 2023</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">3,346,065 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Additions</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">97,521 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Adjustments</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">173 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Effect of foreign currency translation</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">590 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Balance at July 31, 2024 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">3,444,349 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 3346065000 97521000 173000 590000 3444349000 <div style="margin-top:8pt">Intangible assets as of July 31, 2024 consist of the following:</div><div style="margin-top:14pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:52.262%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.962%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Gross Carrying Amount</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Accumulated
Amortization</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Net Amount</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="15" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">904,381 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">711,119 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">193,262 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">314,154 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">242,955 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">71,199 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-

color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">176,343 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">174,724 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,619 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,925 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,913 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,407,803 </td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,141,711 </td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">266,092 </td><td style="background-color:#ceeeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:8pt">Intangible assets as of October 31, 2023 consist of the following:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:52.262%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.958%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.962%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Gross Carrying Amount</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Accumulated
Amortization</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Net Amount</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="15" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">842,448 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">672,480 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">169,968 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">296,883 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">231,557 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">65,326 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">175,747 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">171,487 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,260 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,925 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,902 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:top">Capitalized software development costs</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">50,795 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">50,795 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,378,798 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span

style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">1,139,221 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">239,577 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 904381000 711119000 193262000 314154000 242955000 71199000 176343000 174724000 1619000 12925000 12913000 12000 1407803000 1141711000 266092000 842448000 672480000 169968000 296883000 231557000 65326000 175747000 171487000 4260000 12925000 12902000 23000 50795000 50795000 0 1378798000 1139221000 239577000

Amortization expense related to intangible assets consists of the following: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Core/developed technology</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">13,447 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,436 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">38,373 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">31,427 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Customer relationships</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,058 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,011 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,467 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,945 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Contract rights intangible</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,063 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">558 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,465 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,257 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Trademarks and trade names</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Capitalized software development costs(1) </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">557 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,626 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">18,572 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">13,565 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">53,317 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td

colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">40,258 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt">(1) Amortization of capitalized software development costs is included in cost of products revenue in the condensed consolidated statements of income.</div> 13447000 10436000 38373000 31427000 4058000 2011000 11467000 5945000 1063000 558000 3465000 1257000 4000 3000 12000 3000 0 557000 0 1626000 18572000 13565000 53317000 40258000 <div style="margin-top:8pt">The following table presents the estimated future amortization of acquired intangible assets as of July 31, 2024:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Remainder of fiscal 2024</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">17,344 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2025</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">62,103 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">2026</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">51,778 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2027</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">46,831 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">2028</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">32,099 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">2029 and thereafter</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">55,937 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">266,092 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 17344000 62103000 51778000 46831000 32099000 55937000 266092000 Balance Sheet Components <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%"><tr><td style="width:1.0%"></td><td style="width:58.311%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.900%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.388%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.901%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

<table>
<tr><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr>
<tr><td colspan="3">Accounts payable and accrued liabilities:</td><td colspan="3"></td><td colspan="3"></td></tr>
<tr><td colspan="3">Payroll and related benefits</td><td>$</td><td>530,948</td><td colspan="3"></td><td>$</td><td>531,848</td></tr>
<tr><td colspan="3">Accrued income taxes</td><td colspan="2">3,172</td><td colspan="3"></td><td colspan="2">226,762</td></tr>
<tr><td colspan="3">Other accrued liabilities</td><td colspan="2">144,316</td><td colspan="3"></td><td colspan="2">146,696</td></tr>
<tr><td colspan="3">Accounts payable</td><td colspan="2">78,547</td><td colspan="3"></td><td colspan="2">154,608</td></tr>
<tr><td colspan="3">Total</td><td>$</td><td>756,983</td><td colspan="3"></td><td>$</td><td>1,059,914</td></tr>
<tr><td colspan="3">Other long-term liabilities:</td><td colspan="3"></td><td colspan="3"></td></tr>
<tr><td colspan="3">Deferred compensation plan liabilities</td><td>$</td><td>373,306</td><td colspan="3"></td><td>$</td><td>297,180</td></tr>
<tr><td colspan="3">Other</td><td colspan="2">91,927</td><td colspan="3"></td><td colspan="2">84,351</td></tr>
<tr><td colspan="3">Total</td><td>$</td><td>465,233</td><td colspan="3"></td><td>$</td><td>381,531</td></tr>
</table>

<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%">
<tr><td style="width:1.0%"></td><td style="width:58.311%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.900%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.388%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.901%"></td><td style="width:0.1%"></td></tr>
<tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of October 31, 2023 (in thousands)</td></tr>
<tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr>
</table>

style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other long-term assets:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred compensation plan assets</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Capitalized commission, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">70,532 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">67,240 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">135,935 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">80,400 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">579,773 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">444,820 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:15pt"><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Accounts payable and accrued liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Payroll and related benefits</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">530,948 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">531,848 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Accrued income taxes</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,172 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">226,762 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other accrued liabilities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">144,316 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">146,696 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Accounts payable</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">78,547 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">154,608 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">756,983 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,059,914 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:15pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other long-term liabilities:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Deferred compensation plan liabilities</td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">373,306 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">297,180 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">91,927 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">84,351 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">465,233 </td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">381,531 </td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> *373306000 297180000 70532000 67240000 135935000 80400000 579773000 444820000 530948000 531848000 3172000 226762000 144316000 146696000 78547000 154608000 756983000 1059914000 373306000 297180000 91927000 84351000 465233000 381531000 Financial Assets and Liabilities Cash Equivalents and Short-term Investments As of July 31, 2024, the balances of our cash equivalents and short-term investments are as follows:<table*

<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:32.721%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.759%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.153%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Amortized Cost</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Gains</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses Less Than 12 Continuous Months</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses 12 Continuous Months or Longer</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> Estimated
Fair Value(1) </td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="27" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash equivalents:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Money market funds</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,445 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,446 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">51,982 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">51,983 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">18,250 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">61 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(9)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt">

</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">18,302 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Corporate debt securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,267 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">528 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(24)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,758 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Asset-backed securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,237 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">164 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(2)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(28)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,371 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">153,754 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">753 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(15)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(61)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">154,431 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

<table><tr><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,903 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,899 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">153,754 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">154,431 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> As of October 31, 2023, the balances of our cash equivalents and short-term investments are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:32.721%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.759%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.153%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Amortized Cost</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Gains</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses Less Than 12 Continuous Months</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses 12 Continuous Months or Longer</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> Estimated
Fair Value(1) </td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="27" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash equivalents:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Money market funds</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">13,123 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">13,123 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span

style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">15,752 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(61)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(2)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Municipal bonds</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">515 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(16)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Corporate debt securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">103,213 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(455)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(396)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Asset-backed securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,245 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(93)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(97)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">152,725 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">34 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(609)</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(511)</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">151,639 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table> (1)See Note 10, Fair Value Measurements for further discussion on fair values. Restricted cash. We include amounts generally described as restricted cash in cash and cash equivalents when reconciling beginning-of-period and end-of-period total amounts shown on the condensed consolidated statements of cash flows. Restricted cash is primarily associated with office leases and employee loan programs. The following table provides a reconciliation of cash, cash equivalents and restricted cash included in the condensed consolidated balance sheets and the condensed consolidated statements of cash flows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td

style="width:68.929%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.522%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash and cash equivalents</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,839,815 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,433,966 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Restricted cash included in prepaid and other current assets</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,536 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,549 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Restricted cash included in other long-term assets</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">694 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">725 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash, cash equivalents and restricted cash </td><td style="border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,842,045 </td><td style="border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,436,240 </td><td style="border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash, cash equivalents and restricted cash from discontinued operations </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">17,441 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,947 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total cash, cash equivalents and restricted cash, including cash from discontinued operations </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,859,486 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,441,187 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table>
 Non-marketable equity securities. Our portfolio of non-marketable equity securities consists of strategic investments in privately held companies. In November 2023, we completed the sale of strategic investments in privately-held companies. The gain recognized from the sales was $55.1 million and included in interest and other income (expense), net, in our condensed consolidated statements of income. There were no material impairments of non-marketable equity securities during the three and nine months ended July 31, 2024 and 2023. Derivatives We recognize derivative instruments as either assets or liabilities in the condensed consolidated balance sheets at fair value and provide qualitative and quantitative disclosures about such derivatives. We operate internationally and are exposed to potentially adverse movements in foreign currency exchange rates. We enter into hedges in the form of foreign currency forward contracts to reduce our exposure to foreign currency rate changes on non-functional currency denominated forecasted transactions and balance sheet positions including: (1) certain assets and liabilities, (2) shipments forecasted to occur within approximately one month, (3) future billings and revenue on previously shipped orders, and (4) certain future intercompany invoices denominated in foreign currencies. The duration of forward contracts, the majority of which are short-term, ranges from approximately 2 months to 29 months at inception. We do not use foreign currency forward contracts for speculative or trading purposes. We enter into foreign exchange forward contracts with high credit quality financial institutions that are rated "A" or above and to date have not experienced nonperformance by counterparties. In addition, we mitigate credit risk in derivative transactions by permitting net settlement of transactions with the same counterparty and anticipate continued performance by all counterparties to such agreements. The assets or liabilities associated with the forward contracts are recorded at fair value in other current assets or accrued liabilities in the condensed consolidated balance sheets. The accounting for gains and losses resulting from changes in fair value depends on the use of the foreign currency forward contract and whether it is designated and qualifies for hedge accounting. The cash flow impact upon settlement of the derivative contracts is included in net cash provided by operating activities in the condensed consolidated statements of cash flows. Cash Flow Hedging Activities Certain foreign exchange forward contracts are designated and qualify as cash flow hedges. These contracts have durations of approximately 29 months or less. Certain forward contracts are rolled over periodically to capture the full length of exposure to our foreign currency risk, which can be up to three years. To receive hedge accounting treatment, all hedging relationships are formally documented at the inception of the hedge, and the hedges must be highly effective in offsetting changes to future cash flows on the hedged transactions. The related gains or losses resulting from changes in fair value of these hedges is initially reported, net of tax, as a component of other comprehensive income (loss) (OCI) in stockholders' equity and reclassified into revenue or operating expenses, as appropriate, at the time the hedged transactions affect earnings. We expect a majority of the hedge balance in OCI to be reclassified to the statements of income within the next 12 months. We did not record any gains or losses related to discontinuation of cash flow hedges during the nine months ended July 31, 2024 and 2023. Non-designated Hedging Activities Our foreign exchange forward contracts that are used to hedge non-functional currency denominated balance sheet assets and liabilities are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the underlying assets and liabilities, which are also recorded in interest and other income (expense), net. The duration of the forward contracts for hedging our balance sheet exposure is approximately one month. We also have certain foreign exchange forward contracts for hedging certain international revenues and expenses that are not designated as hedging instruments. Accordingly, any gains or losses from changes in the fair value of the forward contracts are recorded in interest and other income (expense), net. The gains and losses on these forward contracts generally offset the gains and losses associated with the foreign currency in operating income. The duration of these forward contracts is usually less than one year. The overall goal of our hedging program is to minimize the impact of currency fluctuations on the net income over the fiscal year. The effects of the non-designated derivative instruments on the condensed consolidated statements of income are summarized as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom"><span

style="color:#000000;font-family:'Arial',sans-serif;font-size:8pt;font-weight:700;line-height:100%">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Gains (losses) recorded in Interest and other income (expense), net </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">955 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,205)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(110)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">3,532 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding. <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:68.929%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.522%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total gross notional amounts</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,816,755 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,666,758 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Net fair value</td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">5,768 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">(2,308)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Our exposure to the market gains or losses will vary over time as a function of currency exchange rates. The amounts ultimately realized upon settlement of these financial instruments, together with the gains and losses on the underlying exposures, will depend on actual market conditions during the remaining life of the instruments. The following table represents the condensed consolidated balance sheets location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:59.222%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.372%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.374%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair values of
derivative instruments
designated as hedging
instruments</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Fair values of
derivative instruments
not designated as
hedging instruments</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Balance at July 31, 2024 </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other current assets</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">13,655 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">820 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Accrued liabilities</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">7,498 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,209 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Balance at October 31, 2023 </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Other current assets</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">12,962 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">491 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Accrued liabilities</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">14,665 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,096 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The following table represents the location of the

amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax in the condensed consolidated statements of income:
 <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:25.800%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:17.613%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:16.005%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:17.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.279%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Location of
gains (losses) recognized in OCI on derivatives</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Amount of
gains (losses) recognized in OCI on
derivatives
(effective portion)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Location of
gains (losses)
reclassified from OCI</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Amount of
gains (losses)
reclassified from
OCI
(effective portion)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Three months ended
 July 31, 2024</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,501 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(320)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(611)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">4,181 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">2,078 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Three months ended
 July 31, 2023</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">899 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(1,352)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,008 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,898)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">5,907 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(5,250)</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Nine months ended
 July 31, 2024</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,936 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(1,593)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-

align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,720 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(763)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">7,656 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(2,356)</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Nine months ended
 July 31, 2023</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7,315 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(10,856)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36,174 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(12,025)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">43,489 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(22,881)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> As of July 31, 2024, the balances of our cash equivalents and short-term investments are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:32.721%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.759%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.153%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Amortized Cost</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Gains</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses Less Than 12 Continuous Months</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Gross
Unrealized
Losses 12 Continuous Months or Longer</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> Estimated
Fair Value(1) </td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="27" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash equivalents:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Money market funds</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">—

style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,445 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,446 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">51,982 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">51,983 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Short-term investments:</td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceeeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">18,250 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">61 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(9)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">18,302 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Corporate debt securities</td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,267 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">528 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13)</td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(24)</td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,758 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Asset-backed securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,237 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">164 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(2)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(28)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,371 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-

height:100%">153,754 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">753 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(15)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(61)</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">154,431 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">13,123 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">13,123 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">U.S. Treasury, agency & T-bills</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">15,752 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(61)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(2)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Municipal bonds</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">515 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(16)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Corporate debt securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">103,213 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(455)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(396)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Asset-backed securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,245 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-

color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(93)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(97)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 7.75pt;text-align:left;vertical-align:bottom">Total:</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">152,725 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">34 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(609)</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(511)</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">151,639 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table> (1)See Note 10, Fair Value Measurements for further discussion on fair values.
44537000 0 0 0 44537000 7445000 1000 0 0 7446000 51982000 1000 0 0 51983000 18250000 61000 0 9000 18302000 104267000 528000 13000 24000 104758000 31237000 164000 2000 28000 31371000 153754000 753000 15000 61000 154431000 61373000 61426000 87412000 88022000 3066000 3084000 1903000 1899000 153754000 154431000 10129000 0 0 0 10129000 2994000 0 0 0 2994000 13123000 0 0 0 13123000 15752000 0 61000 2000 15689000 515000 0 0 16000 499000 103213000 13000 455000 396000 102375000 33245000 21000 93000 97000 33076000 152725000 34000 609000 511000 151639000 The following table provides a reconciliation of cash, cash equivalents and restricted cash included in the condensed consolidated balance sheets and the condensed consolidated statements of cash flows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:68.929%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.522%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash and cash equivalents</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,839,815 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,433,966 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Restricted cash included in prepaid and other current assets</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,536 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,549 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Restricted cash included in other long-term assets</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">694 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">725 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash, cash equivalents and restricted cash </td><td style="border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,842,045 </td><td style="border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,436,240 </td><td style="border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash, cash equivalents and restricted cash from discontinued operations </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">17,441 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,947 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total cash, cash equivalents and restricted cash, including cash from discontinued operations </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td

style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,859,486 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,441,187 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 1839815000 1433966000 1536000 1549000 694000 725000 1842045000 1436240000 17441000 4947000 1859486000 1441187000 55100000 P1M P2M P29M P29M P3Y P12M P1M P1Y <div style="margin-top:9pt">The effects of the non-designated derivative instruments on the condensed consolidated statements of income are summarized as follows:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 14.5pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><div>Gains (losses) recorded in Interest and other income (expense), net</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">955 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,205)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(110)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">3,532 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 955000 -1205000 -110000 3532000 <div style="margin-top:9pt">The notional amounts in the table below for derivative instruments provide one measure of the transaction volume outstanding:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:68.929%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.522%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total gross notional amounts</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,816,755 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,666,758 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Net fair value</td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">5,768 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">(2,308)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 1816755000 1666758000 5768000 -2308000 <div style="margin-top:9pt">The following table represents the condensed consolidated balance sheets location and amount of derivative instrument fair values segregated between designated and non-designated hedge instruments:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:59.222%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.372%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.532%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:18.374%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair values of
derivative instruments
designated as hedging
instruments</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Fair values of
derivative instruments
not designated as
hedging instruments</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><div>Balance at July 31, 2024</div></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other current assets</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">13,655 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">820 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Accrued liabilities</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">7,498 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,209 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-

align:left;vertical-align:top"> Balance at October 31, 2023 </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Other current assets</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">12,962 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">491 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Accrued liabilities</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">14,665 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,096 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 13655000 820000 7498000 1209000 12962000 491000 14665000 1096000 The following table represents the location of the amount of gains and losses on derivative instrument fair values for designated hedge instruments, net of tax in the condensed consolidated statements of income:
 <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:25.800%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:17.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:16.005%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:17.613%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.279%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Location of
gains (losses) recognized in OCI on derivatives</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Amount of
gains (losses) recognized in OCI on
derivatives
(effective portion)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Location of
gains (losses)
reclassified from OCI</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Amount of
gains (losses)
reclassified from
OCI
(effective portion)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Three months ended
 July 31, 2024</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,501 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(320)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(611)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">4,181 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">2,078 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Three months ended
 July 31, 2023</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">899 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(1,352)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,008 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,898)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">5,907 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0

1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(5,250)</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Nine months ended
 July 31, 2024</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,936 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(1,593)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,720 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(763)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">7,656 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(2,356)</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Nine months ended
 July 31, 2023</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7,315 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(10,856)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Foreign exchange contracts</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36,174 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Operating expenses</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(12,025)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">43,489 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">(22,881)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 4501000 2689000 -320000 -611000 4181000 2078000 899000 -1352000 5008000 -3898000 5907000 -5250000 1936000 -1593000 5720000 -763000 7656000 -2356000 7315000 -10856000 36174000 -12025000 43489000 -22881000 Fair Value Measurements ASC 820-10, Fair Value Measurements and Disclosures, defines fair value, establishes guidelines and enhances disclosure requirements for fair value measurements. The accounting guidance requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The accounting guidance also establishes a fair value hierarchy based on the independence of the source and objective evidence of the inputs used. There are three fair value hierarchies based upon the level of inputs that are significant to fair value measurement: Level 1—Observable inputs that reflect quoted prices (unadjusted) for identical instruments in active markets; Level 2—Observable inputs other than quoted prices for identical instruments in active markets, quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in inactive markets, and model-driven valuations in which all significant inputs and significant value drivers are observable in active markets; and Level 3—Unobservable inputs derived from fair valuation techniques in which one or more significant inputs or significant value drivers are unobservable. On a recurring basis, we measure the fair value of certain assets and liabilities, which include cash equivalents, short-term investments, non-qualified deferred compensation plan assets, and foreign currency derivative contracts. Our cash equivalents and short-term investments are classified within Level 1 or Level 2 because they are valued using quoted market prices in an active market or alternative independent pricing sources and models utilizing market observable inputs. Our non-qualified deferred compensation plan assets consist of money market and mutual funds invested in domestic and international marketable securities that are directly observable in active markets and are therefore classified within Level 1. Our foreign currency derivative contracts are classified within Level 2 because these contracts are not actively traded, and the valuation inputs are based on quoted prices and market observable data of similar instruments. Our borrowings under our credit and term loan facilities are classified within Level 2 because these borrowings are not actively traded and have a variable interest rate structure based upon market rates currently available to us for debt with similar terms and maturities. See Note 11. Bridge Commitment Letter, Term Loan and Revolving Credit Facilities of the Notes to Condensed Consolidated Financial

Statements for more information on these borrowings. Assets/Liabilities Measured at Fair Value on a Recurring Basis Assets and liabilities measured at fair value on a recurring basis are summarized below as of July 31, 2024: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%"><tr><td style="width:1.0%"></td><td style="width:36.400%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.752%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.635%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.752%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.756%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value Measurement Using</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Description</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Quoted Prices in
Active Markets
for Identical Assets
(Level 1)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant Other
Observable Inputs
(Level 2)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant
Unobservable
 Inputs
(Level 3)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Assets</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cash equivalents:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Money market funds</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td>
</tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3"
style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td
colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3"
style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td
colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-
align:left;vertical-align:top">Prepaid and other current assets:
</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td
colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3"
style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-
color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top"><span
style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">Foreign currency derivative contracts</td><td colspan="2"
style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-
size:10pt;font-weight:400;line-height:100%">14,475 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-
align:right;vertical-align:bottom">— </td><td
style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt">
</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">14,475 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-
align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-
align:right;vertical-align:bottom">— </td><td
style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-
color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-
height:100%">Other long-term assets:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-
color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0
1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td
colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-
align:left;vertical-align:top"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-
height:100%">Deferred compensation plan assets</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-
align:bottom">373,306 </td><td style="background-
color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2"
style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-
size:10pt;font-weight:400;line-height:100%">373,306 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-
align:right;vertical-align:bottom">— </td><td
style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt">
</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:700;line-height:100%">Total assets</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px
1pt;text-align:left;vertical-align:bottom">$</td><td
style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">594,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px
0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-
top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-
weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">
417,843 </td><td style="background-
color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-
color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">
$</td><td style="background-color:#cceeff;border-top:1pt
solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-
height:100%">176,352 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px
1pt;text-align:left;vertical-align:bottom">$</td><td
style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-
align:right;vertical-align:bottom"></td></tr><tr style="height:14pt"><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3"
style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td
colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt">
</td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt">
</td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-
color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:700;line-
height:100%">Liabilities</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-
color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0
1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td
colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-
align:top">Accounts payable and accrued liabilities:
</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3"
style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-
color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0
1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top"><span style="color:#000000;font-
family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">Foreign currency derivative contracts</td><td style="background-
color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-
height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-
family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">8,707 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-
align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px
1pt;text-align:left;vertical-align:bottom">$</td><td
style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-
weight:400;line-height:100%">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3"
style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span
style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px
0;text-align:right;vertical-align:bottom">8,707 </td>
<td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0
1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom"><span
style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#cceeff;padding:2px
1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">
Other long-term liabilities:</td><td colspan="3"
style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-
color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0
1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td
colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top"><span style="color:#000000;font-family:'Arial',sans-serif;font-
size:10pt;font-weight:400;line-height:100%">Deferred compensation plan liabilities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px
1pt;text-align:right;vertical-align:bottom">373,306
</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-
color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span
style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">373,306 </td><td style="background-
color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2"
style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-
size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-
align:bottom">— </td><td style="background-
color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-
align:left;vertical-align:top">Total liabilities</td><td
style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-
bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">382,013 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid
#000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td
style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-
bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-
serif;font-size:10pt;font-weight:400;line-height:100%">373,306 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid
#000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td

style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">8,707 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Assets and liabilities measured at fair value on a recurring basis are summarized below as of October 31, 2023:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:36.180%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.566%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.543%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.502%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value Measurement Using</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Description</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Quoted Prices in
Active Markets
for Identical Assets
(Level 1)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant Other
Observable Inputs
(Level 2)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant
Unobservable
Inputs
(Level 3)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Assets</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cash equivalents:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Money market funds</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Municipal bonds</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Corporate debt securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-

size:10pt;font-weight:400;line-height:100%">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Asset-backed securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Prepaid and other current assets:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13,453 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13,453 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term assets:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan assets</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total assets</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">475,395 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">307,309 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">168,086 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Liabilities</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Accounts payable and accrued liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan liabilities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-

align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total liabilities</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">312,941 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Assets/Liabilities Measured at Fair Value on a Non-Recurring Basis Non-Marketable Equity Securities Non-marketable equity securities are classified within Level 3 as they are valued using a combination of observable transaction price and unobservable inputs or data in an inactive market due to the absence of market price and inherent lack of liquidity. Assets and liabilities measured at fair value on a recurring basis are summarized below as of July 31, 2024: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.415%"><tr><td style="width:1.0%"></td><td style="width:36.400%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.752%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.635%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.752%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.535%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.756%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value Measurement Using</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Description</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Quoted Prices in
Active Markets
for Identical Assets
(Level 1)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant Other
Observable Inputs
(Level 2)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant
Unobservable
 Inputs
(Level 3)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Assets</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cash equivalents:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Money market funds</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,446 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,446 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18,302 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18,302 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3"

style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Corporate debt securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,758 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">104,758 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Asset-backed securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,371 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31,371 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Prepaid and other current assets:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,475 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,475 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term assets:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan assets</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total assets</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">594,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">417,843 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">176,352 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:14pt"><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Liabilities</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Accounts payable and accrued liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">8,707 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">8,707 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term liabilities:</td><td colspan="3"

style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan liabilities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total liabilities</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">382,013 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">373,306 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">8,707 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Assets and liabilities measured at fair value on a recurring basis are summarized below as of October 31, 2023:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:36.180%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.566%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.543%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.502%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value Measurement Using</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Description</td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Quoted Prices in
Active Markets
for Identical Assets
(Level 1)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant Other
Observable Inputs
(Level 2)</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">Significant
Unobservable
Inputs
(Level 3)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Assets</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cash equivalents:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Money market funds</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,129 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,994 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Short-term investments:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">U.S. Treasury, agency & T-bills</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-

align:bottom">15,689 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Municipal bonds</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">499 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Corporate debt securities</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">102,375 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Asset-backed securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">33,076 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Prepaid and other current assets:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13,453 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13,453 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term assets:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan assets</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total assets</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">475,395 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">307,309 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">168,086 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Liabilities</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Accounts payable and accrued liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Foreign currency derivative contracts</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3"

style="background-color:#ceceff;padding:0 1pt"></td><td style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceceff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceceff;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceceff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other long-term liabilities:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ceceff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan liabilities</td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total liabilities</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">312,941 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">297,180 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">15,761 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 44537000 44537000 0 0 7446000 0 7446000 0 18302000 0 18302000 0 104758000 0 104758000 0 31371000 0 31371000 0 14475000 0 14475000 0 373306000 373306000 0 0 594195000 417843000 176352000 0 8707000 0 8707000 0 373306000 373306000 0 0 382013000 373306000 8707000 0 10129000 10129000 0 0 2994000 0 2994000 0 15689000 0 15689000 0 499000 0 499000 0 102375000 0 102375000 0 33076000 0 33076000 0 13453000 0 13453000 0 297180000 297180000 0 0 475395000 307309000 168086000 0 15761000 0 15761000 0 297180000 297180000 0 0 312941000 297180000 15761000 0 Bridge Commitment Letter, Term Loan and Revolving Credit Facilities On January 15, 2024, we entered into the Bridge Commitment Letter with certain financial institutions that committed to provide, subject to the satisfaction of customary closing conditions, the Bridge Commitment. The Bridge Commitment currently provides for an aggregate principal amount of up to $11.7 billion. The proceeds of any borrowing under the Bridge Commitment will be used for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. The commitments to provide the Bridge Commitment may be terminated in whole or reduced in part, at our discretion. In addition, the Bridge Commitment Letter provides that net cash proceeds received from certain debt and equity issuances or the sale of certain businesses and assets, including the pending Software Integrity Divestiture, as well as term loan commitments under certain qualifying term loan facilities, will result in mandatory commitment reductions under the Bridge Commitment. On February 13, 2024, we entered into the Term Loan Agreement in connection with the financing of the pending Ansys Merger. The Term Loan Agreement provides us with the ability to borrow up to $4.3 billion at the closing of the Ansys Merger, subject to the satisfaction of customary closing conditions for similar facilities, for the purpose of financing a portion of the cash consideration to be paid in the Ansys Merger and paying related fees and expenses in connection with the Ansys Merger and the other transactions contemplated by the Merger Agreement. The Term Loan Agreement provides for two tranches of senior unsecured term loans: a $1.45 billion tranche (Tranche 1) that matures two years after funding and a $2.85 billion tranche (Tranche 2) that matures three years after funding. There was no outstanding balance under the Term Loan Agreement as of July 31, 2024. The Term Loan Agreement contains a financial covenant requiring that Synopsys maintain a maximum consolidated leverage ratio commencing the last day of the first fiscal quarter ending on or after the completion of the Ansys Merger, as well as other non-financial covenants. Under the Term Loan Agreement, borrowings will bear interest on the principal amount outstanding at a floating rate based on, at Synopsys' election, (i) the Adjusted Term SOFR Rate (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.875% to 1.375% (in the case of Tranche 1) or 1.000% to 1.500% (in the case of Tranche 2) or (ii) the ABR (as defined in the Term Loan Agreement) plus an applicable margin based on the credit ratings of Synopsys ranging from 0.000% to 0.375% (in the case of Tranche 1) or 0.000% to 0.500% (in the case of Tranche 2). On May 14, 2024, a ticking fee began to accrue under the Term Loan Agreement in an amount equal to a rate per annum equal to 0.10% times the actual daily undrawn portion of the commitments in respect of the term loan facility. This ticking fee will accrue until the earlier of (i) termination or expiration of the commitments under the term loan facility or (ii) the funding of the commitments, at which point the accrued amount of the ticking fee will become payable. On February 13, 2024, we entered into a Sixth Amendment Agreement (the Sixth Amendment), which amended and restated our previous revolving credit agreement, dated as of December 14, 2022 (as amended and restated, the Revolving Credit Agreement). The Revolving Credit Agreement provides an unsecured $850.0 million committed multicurrency revolving credit facility and an unsecured uncommitted incremental revolving loan facility of up to $150.0 million. The maturity date of the revolving credit facility is December 14, 2027, which may be extended at our option. Under the Sixth Amendment, certain amendments became effective on February 13, 2024 and certain additional amendments will become effective upon the completion of the Ansys Merger. Upon the effective date, the Sixth Amendment amended the financial covenant to allow netting of the cash proceeds of certain debt incurred to finance the Ansys Merger as well as certain other modifications set forth therein. Upon the completion of the Ansys Merger, the Sixth Amendment, among other things: (i) amends the applicable margin used to determine the interest that accrues on loans and the facility fee payable under the revolving credit facility to be based on our credit ratings, (ii) amends the financial covenant thresholds under the financial covenant in the Revolving Credit Agreement requiring us to maintain a maximum consolidated leverage ratio and (iii) amends certain conditions to borrowing, other non-financial covenants and events of default. The Revolving Credit Agreement contains a financial covenant requiring us to maintain a maximum consolidated leverage ratio, as well as other non-financial covenants. As of July 31, 2024, we were in compliance with the financial covenant. Interest accrues on dollar-denominated loans at a floating rate based on, at Synopsys' election, (i) the Adjusted Term SOFR Rate (as defined in the Revolving Credit Agreement) plus an applicable margin or (ii) the ABR (as defined in the Revolving Credit Agreement) plus an applicable margin. The applicable margin for Adjusted Term SOFR Rate based loans ranges from 0.785% to 0.975%, based upon Synopsys' consolidated leverage ratio. The applicable margin for ABR based loans is 0.000%. In addition to the interest on any outstanding loans, Synopsys is also required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.09% to 0.15% based on Synopsys' consolidated leverage ratio on the daily amount of the revolving commitment. Subject to the completion of the Ansys Merger, interest under the Revolving Credit Agreement will accrue on dollar-denominated loans at a floating rate based on, at Synopsys' election, (i) the Adjusted Term SOFR Rate plus an applicable margin based on our credit ratings ranging from 0.795% to 1.200% or (ii) the ABR plus an applicable margin based on our credit ratings ranging from 0.000% to 0.200%. In addition to the interest on any outstanding loans, Synopsys will also be required to pay a facility fee on the entire portion of the revolving credit facility ranging from 0.080% to 0.175% based on the credit ratings of Synopsys on the daily amount of the revolving commitment. There was no outstanding balance under the Revolving Credit Agreement as of July 31, 2024 and October 31, 2023. In July 2018, we entered into a 12-year 220.0 million Renminbi (approximately $33.0 million) credit agreement with a lender in China to support our facilities expansion. Borrowings bear interest at a floating rate based on the 5-year Loan Prime Rate plus 0.74%. As of July 31, 2024, we had $15.6 million outstanding balance under the agreement. The carrying amount of the short-term and long-term debt approximates the estimated fair value. 11700000000 4300000000 1450000000 P2Y 2850000000 P3Y 0 0.00875 0.01375 0.01000 0.01500 0.00000 0.00375 0.00000 0.00500 0.0010 850000000 150000000 0.00785 0.00975 0.00000 0.0009 0.0015 0.00795 0.01200 0.00000 0.00200 0.00080 0.00175 0 0 P12Y 220000000.0 33000000.0 0.0074 15600000 Leases <span style="color:#212529;font-family:'Arial',sans-serif;font-size:10pt;font-

weight:400;line-height:120%">We have operating lease arrangements for office space, data center, equipment and other corporate assets. These leases have various expiration dates through December 31, 2042, some of which include options to extend the leases for up to 10 years. Because we are not reasonably certain to exercise these renewal options, the options are not considered in determining the lease term and associated potential option payments are excluded from lease payments. The components of our lease expense during the period presented are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="21" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:middle">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Operating lease expense(1) </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">23,800 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">22,018 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">67,848 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">68,165 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Variable lease expense (2) </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,182 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,622 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">16,761 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,684 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total lease expense</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">28,982 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">27,640 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">84,609 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">82,849 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> (1) Operating lease expense includes immaterial amounts of short-term leases, net of sublease income. (2) Variable lease expense includes payments to lessors that are not fixed or determinable at lease commencement date. These payments primarily consist of maintenance, property taxes, insurance and variable indexed based payments. Supplemental cash flow information during the period presented is as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:70.098%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.935%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.937%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="9" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash paid for amounts included in the measurement of operating lease liabilities(1) </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">74,715 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">66,556 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> ROU assets obtained in exchange for operating lease liabilities(2) </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-

align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">64,790 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">81,027 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table> (1) Cash paid for amounts included in the measurement of operating lease liabilities included cash from discontinued operations of $4.3 million and $4.3 million for the periods presented. (2) ROU assets obtained in exchange for operating lease liabilities included ROU assets from discontinued operations of $0.7 million and $1.4 million for the periods presented.</div><div style="margin-top:9pt">Lease term and discount rate information related to our operating leases as of the end of the period presented are as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:69.248%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.434%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.381%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.437%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Weighted-average remaining lease term (in years)</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt;text-align:right;vertical-align:bottom">7.77</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt;text-align:right;vertical-align:bottom">8.44</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Weighted-average discount rate</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.76 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.50 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table></div><div style="margin-top:9pt">The following table represents the maturities of our future lease payments due under operating leases as of July 31, 2024:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Lease Payments</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Remainder of fiscal 2024</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">20,499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2025</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">112,496 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2026</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">106,262 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2027</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">103,600 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2028</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">88,298 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2029 and thereafter</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">304,542 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total future minimum lease payments </td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">735,697 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Less: Imputed interest</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">77,421 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total lease liabilities </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">658,276 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt">In addition, certain facilities owned by us were leased to third parties under non-cancellable operating lease agreements. These leases have annual escalating payments and have expiration dates through March 31, 2031 in accordance with the terms and conditions of the existing agreement. The lease receipts from owned facilities, including sublease income from other facilities leased by us, due to us as of July 31, 2024 are as follows:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:82.379%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.421%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Lease Receipts</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Remainder of fiscal 2024</td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">6,357 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2025</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,351 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2026</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,230 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2027</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27,376 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2028</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27,557 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2029 and thereafter</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">56,491 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">169,362 </td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table></div> P10Y <div style="margin-top:9pt">The components of our lease expense during the period presented are as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="21" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:middle">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Operating lease expense (1)</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">23,800 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">22,018 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">67,848 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">68,165 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Variable lease expense (2)</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,182 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,622 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">16,761 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,684 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total lease expense</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">28,982 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">27,640 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">84,609 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">82,849 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt">(1) Operating lease expense includes immaterial amounts of short-term leases, net of sublease income. </div><div>(2) Variable lease expense includes payments to lessors that are not fixed or determinable at lease commencement date. These payments primarily consist of maintenance, property taxes, insurance and variable indexed based payments. </div><div style="margin-top:9pt">Supplemental cash flow information during the period presented is as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:70.098%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.935%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.937%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended July 31,</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="21" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Cash paid for amounts included in the measurement of operating lease liabilities(1)</div></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">74,715 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-

size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">66,556 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>ROU assets obtained in exchange for operating lease liabilities(2)</div></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">64,790 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">81,027 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table> (1) Cash paid for amounts included in the measurement of operating lease liabilities included cash from discontinued operations of $4.3 million and $4.3 million for the periods presented. (2) ROU assets obtained in exchange for operating lease liabilities included ROU assets from discontinued operations of $0.7 million and $1.4 million for the periods presented.</div> 23800000 22018000 67848000 68165000 5182000 5622000 16761000 14684000 28982000 27640000 84609000 82849000 74715000 66556000 64790000 81027000 4300000 4300000 700000 1400000 <div style="margin-top:9pt">Lease term and discount rate information related to our operating leases as of the end of the period presented are as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:69.248%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.434%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.381%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.437%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Weighted-average remaining lease term (in years)</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt;text-align:right;vertical-align:bottom">7.77</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt;text-align:right;vertical-align:bottom">8.44</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Weighted-average discount rate</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.76 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2.50 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table></div> P7Y9M7D P8Y5M8D 0.0276 0.0250 <div style="margin-top:9pt">The following table represents the maturities of our future lease payments due under operating leases as of July 31, 2024:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.853%"><tr><td style="width:1.0%"></td><td style="width:84.258%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.542%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Lease Payments</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Remainder of fiscal 2024</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">20,499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2025</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">112,496 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2026</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">106,262 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2027</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">103,600 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2028</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">88,298 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">2029 and thereafter</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">304,542 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total future minimum lease payments </td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">735,697 </td><td style="background-color:#cceeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Less: Imputed interest</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">77,421 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Total lease liabilities </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">658,276 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 20499000 112496000 106262000 103600000 88298000 304542000 735697000 77421000 658276000 The lease receipts from owned facilities, including sublease income from other facilities leased by us, due to us as of July 31, 2024 are as follows:<div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:82.379%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.421%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Lease Receipts</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Fiscal year</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Remainder of fiscal 2024</td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">6,357 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2025</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,351 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2026</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26,230 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2027</td><td colspan="2" style="background-

color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27,376 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2028</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27,557 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">2029 and thereafter</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">56,491 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Total</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">169,362 </td><td style="border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr></table> 6357000 25351000 26230000 27376000 27557000 56491000 169362000 Redeemable Non-controlling Interest During the second quarter of fiscal 2022, we acquired a 75% equity interest in OpenLight Photonics, Inc. (OpenLight) for cash consideration of $90.0 million. The remaining 25% equity interest in OpenLight is held by Juniper Networks, Inc. (the Minority Investor) from their contribution of IP and certain tangible assets. The agreement with the Minority Investor contains redemption features whereby the interest held by the Minority Investor is redeemable either (1) at the option of the Minority Investor on or after the third anniversary of the acquisition or sooner in certain circumstances or (2) at our option beginning on the third anniversary of the acquisition. This option is exercisable at the greater of fair value at the time of redemption or $30.0 million and was valued at $10.1 million, resulting in a total consideration of $100.1 million. During the nine months ended July 31, 2024, our ownership interest in OpenLight was reduced to 71% as a result of the recognition of non-controlling interest upon issuance of OpenLight stock. During the nine months ended July 31, 2024, OpenLight incurred a net loss of $28.9 million, of which $6.9 million was attributable to redeemable non-controlling interest. As of July 31, 2024, the carrying value of the redeemable non-controlling interest was recorded at its estimated fair value of $31.0 million in the condensed consolidated balance sheets.</div> 0.75 90000000 0.25 30000000 10100000 100100000 0.71 -28900000 -6900000 31000000 Accumulated Other Comprehensive Income (Loss)<div style="margin-top:9pt">The components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, are as follows:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.707%"><tr><td style="width:1.0%"></td><td style="width:68.841%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.562%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.533%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.564%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Cumulative currency translation adjustments</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(165,578)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(170,104)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Unrealized gains (losses) on derivative instruments, net of taxes</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(15,212)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(25,224)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Unrealized gains (losses) on available-for-sale securities, net of taxes</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">678 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(1,086)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(180,112)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(196,414)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income is as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Reclassifications:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Gains (losses) on cash flow hedges, net of taxes</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Revenues</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-

family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">2,689 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,352)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,593)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(10,856)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Operating expenses</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(611)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,898)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(763)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(12,025)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,078 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(5,250)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(2,356)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(22,881)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Amounts reclassified during the nine months ended July 31, 2024 and 2023 primarily consisted of gains (losses) from our cash flow hedging activities. See Note 9. Financial Assets and Liabilities of the Notes to Condensed Consolidated Financial Statements. The components of accumulated other comprehensive income (loss), on an after-tax basis where applicable, are as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:99.707%"><tr><td style="width:1.0%"></td><td style="width:68.841%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.562%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.533%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.564%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">As of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">July 31, 2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">October 31, 2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Cumulative currency translation adjustments</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(165,578)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(170,104)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Unrealized gains (losses) on derivative instruments, net of taxes</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(15,212)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(25,224)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Unrealized gains (losses) on available-for-sale securities, net of taxes</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">678 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(1,086)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(180,112)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(196,414)</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> -165578000 -170104000 -15212000 -25224000 678000 -1086000 -180112000 -196414000 The effect of amounts reclassified out of each component of accumulated other comprehensive income (loss) into net income is as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom"><span style="color:#000000;font-

family:'Arial',sans-serif;font-size:8pt;font-weight:700;line-height:100%">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Reclassifications:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Gains (losses) on cash flow hedges, net of taxes</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Revenues</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">2,689 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,352)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(1,593)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(10,856)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Operating expenses</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(611)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(3,898)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(763)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(12,025)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,078 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(5,250)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(2,356)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">(22,881)</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 2689000 -1352000 -1593000 -10856000 -611000 -3898000 -763000 -12025000 2078000 -5250000 -2356000 -22881000 Stock Repurchase Program In fiscal 2022, our Board of Directors approved a stock repurchase program (the Program) with authorization to purchase up to $1.5 billion of our common stock. As of July 31, 2024, $194.3 million remained available for future repurchases under the Program. However, in connection with the pending Ansys Merger, we have suspended the Program until we are able to reduce our expected debt levels. Stock repurchase activities as well as the reissuance of treasury stock for employee stock-based compensation purposes are as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 2023(1)(2) </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 2024(3) </td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 2023(1) </td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total shares repurchased</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-

serif;font-size:10pt;font-weight:400;line-height:100%">751 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">74 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,382 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total cost of the repurchased shares</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">300,000 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">45,000 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">860,724 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ccceff;padding:2px 1pt;text-align:left;vertical-align:top">Reissuance of treasury stock</td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">409 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">625 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,634 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,132 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> (1) Excluded the 41,682 shares and $45.0 million equity forward contract from the May 2023 Accelerated Stock Repurchase program (ASR) settled in August 2023. (2) Included the 105,792 shares and $45.0 million equity forward contract from the February 2023 ASR settled in May 2023. (3) Included the 73,903 shares and $45.0 million equity forward contract from the August 2023 ASR settled in November 2023.</div> 1500000000 194300000 <div style="margin-top:9pt">Stock repurchase activities as well as the reissuance of treasury stock for employee stock-based compensation purposes are as follows:</div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">2023(1)(2)</div></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">2024(3)</div></td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">2023(1)</div></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#ccceff;padding:2px 1pt;text-align:left;vertical-align:top">Total shares repurchased</td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">751 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">74 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,382 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total cost of the repurchased shares</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">300,000 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">45,000 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">860,724 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ccceff;padding:2px 1pt;text-align:left;vertical-align:top">Reissuance of treasury stock</td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">409 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">625 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,634 </td><td style="background-color:#ccceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ccceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ccceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-

size:10pt;font-weight:400;line-height:100%">2,132 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> (1) Excluded the 41,682 shares and $45.0 million equity forward contract from the May 2023 Accelerated Stock Repurchase program (ASR) settled in August 2023. (2) Included the 105,792 shares and $45.0 million equity forward contract from the February 2023 ASR settled in May 2023. (3) Included the 73,903 shares and $45.0 million equity forward contract from the August 2023 ASR settled in November 2023.</div> 0 751000 74000 2382000 0 300000000 45000000 860724000 409000 625000 1634000 2132000 41682 45000000.0 105792 45000000 73903 45000000.0 Stock-Based Compensation<div style="margin-top:9pt">The compensation cost recognized in the condensed consolidated statements of income for our stock compensation arrangements is as follows:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:42.905%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Cost of products</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">14,645 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">12,787 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">44,824 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">38,149 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cost of maintenance and service</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">9,677 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,765 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">28,126 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">22,451 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Research and development expense</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">89,279 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">72,784 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">269,087 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">211,664 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Sales and marketing expense</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30,251 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23,697 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">91,811 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">68,094 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">General and administrative expense</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">20,502 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,463 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">58,702 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,096 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Stock-based compensation expense from continuing operations before taxes </td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">164,354 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">131,496 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">492,550 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">384,454 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> <span style="color:#000000;font-

family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">Stock-based compensation expense from discontinued operations before taxes
</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">17,185 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,968
</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">47,476 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">37,495 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Total stock-based compensation expense before taxes </td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">181,539 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">144,464 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">540,026 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">421,949 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Income tax benefit</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(29,972)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(23,172)
</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(89,158)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(67,681)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">
</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Stock-based compensation expense after taxes</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">151,567 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">121,292 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">450,868 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">354,268 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> During the three and nine months ended July 31, 2024 and 2023, we recognized stock-based compensation expense relating to restricted stock units (RSUs) granted to senior executives with certain market, performance and service conditions (market-based RSUs). The grant date fair value of the market-based RSUs and the assumptions used in the Monte Carlo simulation model to determine the grant date fair value during the periods were as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:50.654%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:21.560%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:23.026%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="display:none"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Expected life (in years)</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 2.89 years </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 0.90 years - 2.70 years </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Risk-free interest rate</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 4.41% </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 4.36% - 4.63% </td>
</tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Volatility</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 34.03% </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 35.84% - 42.86% </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Grant date fair value</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> $600.29 </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> $357.29 - $408.55 </td></tr></table> As of July 31, 2024, we had $1.3 billion of total unrecognized stock-based compensation expense from continuing and discontinued operations relating to options, RSUs and restricted stock awards, which is expected to be recognized over a weighted-average period of 2.3 years. As of July 31, 2024, we had $70.3 million of unrecognized stock-based compensation expense from continuing and discontinued operations relating to our Employee Stock Purchase Plan, which is expected to be recognized over a period of approximately 2.0 years. The intrinsic values of equity awards exercised from continuing and discontinued operations during the periods are as follows:
<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td

*style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Intrinsic value of awards exercised</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">90,973 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">94,116 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">166,993 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">212,339 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The compensation cost recognized in the condensed consolidated statements of income for our stock compensation arrangements is as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:42.905%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.355%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Cost of products</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">14,645 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">12,787 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">44,824 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">38,149 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Cost of maintenance and service</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">9,677 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,765 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">28,126 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">22,451 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Research and development expense</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">89,279 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">72,704 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">269,087 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">211,664 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Sales and marketing expense</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">30,251 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23,697 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">91,811 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">68,094 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">General and administrative expense</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-*

height:100%">20,502 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,463 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">58,702 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,096 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Stock-based compensation expense from continuing operations before taxes </td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">164,354 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">131,496 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">492,550 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">384,454 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceceff;padding:2px 1pt;text-align:left;vertical-align:top"> Stock-based compensation expense from discontinued operations before taxes </td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">17,185 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,968 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">47,476 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">37,495 </td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Total stock-based compensation expense before taxes </td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">181,539 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">144,464 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">540,026 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">421,949 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceceff;padding:2px 1pt;text-align:left;vertical-align:top">Income tax benefit</td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(29,972)</td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(23,172)</td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(89,158)</td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceceff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(67,681)</td><td style="background-color:#ceceff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Stock-based compensation expense after taxes</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">151,567 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">121,292 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">450,868 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">354,268 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 14645000 12787000 44824000 38149000 9677000 7765000 28126000 22451000 89279000 72784000 269087000 211664000 30251000 23697000 91811000 68094000 20502000 14463000 58702000 44096000 164354000 131496000 492550000 384454000 17185000 12968000 47476000 37495000 181539000 144464000 540026000 421949000 29972000 23172000 89158000 67681000 151567000 121292000 450868000 354268000 The grant date fair value of the market-based RSUs and the assumptions used in the Monte Carlo simulation model to determine the grant date fair value during the periods were as follows: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:50.654%"></td><td style="width:0.1%"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:21.560%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:23.026%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="display:none"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#ceceff;padding:2px 1pt;text-align:left;vertical-align:top">Expected life (in years)</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceceff;border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 2.89 years </td><td colspan="3" style="background-color:#ceceff;padding:0 1pt"></td><td colspan="3" style="background-color:#ceceff;border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"> 0.90 years - 2.70 years </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Risk-free interest rate</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 4.41% </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 4.36% - 4.63% </td></tr><tr><td colspan="3" style="background-color:#ceceff;padding:2px 1pt;text-align:left;vertical-align:top">Volatility</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td>

<td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 34.03% </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> 35.84% - 42.86% </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Grant date fair value</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> $600.29 </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> $357.29 - $408.55</div></td></tr></table></div> P2Y10M20D P0Y10M24D P2Y8M12D 0.0441 0.0436 0.0463 0.3403 0.3584 0.4286 600.29 357.29 408.55 1300000000 P2Y3M18D 70300000 P2Y<div style="margin-top:9pt">The intrinsic values of equity awards exercised from continuing and discontinued operations during the periods are as follows:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Intrinsic value of awards exercised</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">90,973 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">94,116 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">166,993 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">212,339 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div> 90973000 94116000 166993000 212339000 Net Income (Loss) Per Share<div style="margin-top:9pt">We compute basic net income (loss) per share by dividing net income available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted net income (loss) per share reflects the dilution from potential common shares outstanding such as stock options and unvested RSUs and awards during the period using the treasury stock method.</div><div style="margin-top:9pt">The table below reconciles the weighted average common shares used to calculate basic net income (loss) per share with the weighted average common shares used to calculate diluted net income (loss) per share:</div><div style="margin-top:5pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:42.905%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.355%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands, except per share amounts)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Numerator:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"><div>Net income from continuing operations attributed to Synopsys</div></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">425,868 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">335,708 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">1,162,429 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">880,994 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) from discontinued operations attributed to Synopsys </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(17,813)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">544 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13,155)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(296)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Net income attributed to Synopsys</td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-

align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">408,055 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">336,252 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,149,274 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">880,698 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Denominator:</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Weighted average common shares for basic net income per share</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">153,417 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,023 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,885 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,204 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Dilutive effect of common share equivalents from equity-based compensation</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,714 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,924 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,978 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,915 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Weighted average common shares for diluted net income per share</td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">156,131 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">154,947 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">155,863 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">155,119 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) per share attributed to Synopsys - basic: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Continuing operations </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.78 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.21 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7.60 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">5.79 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Discontinued operations </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.12)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.08)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Basic net income per share </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.66 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.21 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7.52 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5.79 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) per share

attributed to Synopsys - diluted: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Continuing operations </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.73 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.17 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7.46 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">5.68 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Discontinued operations </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.12)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.09)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Diluted net income per share </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.61 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.17 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7.37 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5.68 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Anti-dilutive employee stock-based awards excluded </td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">211 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">289 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">203 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">454 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The table below reconciles the weighted average common shares used to calculate basic net income (loss) per share with the weighted average common shares used to calculate diluted net income (loss) per share: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:42.905%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.350%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:12.355%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands, except per share amounts)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Numerator:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income from continuing operations attributed to Synopsys </td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">425,868 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">335,708 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">1,162,429 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="padding:2px 0;text-align:right;vertical-align:bottom">880,994 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) from discontinued operations attributed to Synopsys </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span

style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">(17,813)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">544 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13,155)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(296)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Net income attributed to Synopsys</td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">408,055 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">336,252 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,149,274 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td style="border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">880,698 </td><td style="border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Denominator:</td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Weighted average common shares for basic net income per share</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">153,417 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,023 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,885 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">152,204 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Dilutive effect of common share equivalents from equity-based compensation</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,714 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,924 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,978 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,915 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Weighted average common shares for diluted net income per share</td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">156,131 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">154,947 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">155,863 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">155,119 </td><td style="background-color:#ffffff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) per share attributed to Synopsys - basic: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Continuing operations </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.78 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.21 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7.60 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">5.79 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Discontinued operations </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.12)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.08)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Basic net income per share </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.66 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom"><span

style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">2.21 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7.52 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5.79 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Net income (loss) per share attributed to Synopsys - diluted: </td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Continuing operations </td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.73 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2.17 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">7.46 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">5.68 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Discontinued operations </td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.12)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">(0.09)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top"> Diluted net income per share </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.61 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2.17 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7.37 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5.68 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Anti-dilutive employee stock-based awards excluded</td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">211 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">289 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">203 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:3pt double #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">454 </td><td style="background-color:#cceeff;border-top:3pt double #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 425868000 335708000 1162429000 880994000 -17813000 544000 -13155000 -296000 408055000 336252000 1149274000 880698000 153417000 152023000 152885000 152204000 2714000 2924000 2978000 2915000 156131000 154947000 155863000 155119000 2.78 2.21 7.60 5.79 -0.12 0 -0.08 0 2.66 2.21 7.52 5.79 2.73 2.17 7.46 5.68 -0.12 0 -0.09 0 2.61 2.17 7.37 5.68 211000 289000 203000 454000 Segment Disclosure Segment reporting is based upon the "management approach," i.e., how management organizes our operating segments for which separate financial information is (1) available and (2) evaluated regularly by the CODM in deciding how to allocate resources and in assessing performance. Our CODM is our CEO. We have two reportable segments: (1) Design Automation, which includes our advanced silicon design, verification products and services, system integration products and services, digital, custom and field programmable gate array (FPGA) IC design software, verification software and hardware products, manufacturing software products and other; and (2) Design IP, which includes our Design IP products. The financial information provided to and used by the CODM to assist in making operational decisions, allocating resources, and assessing performance includes consolidated financial information as well as revenue, adjusted operating income, and adjusted operating margin information for the Design Automation and Design IP segments, accompanied by disaggregated information relating to revenue by geographic region. In accordance with applicable accounting guidance, the results of the Software Integrity business are presented as discontinued operations in the condensed consolidated statements of income and, as such, have been excluded from both continuing operations and segment results for all periods presented. See Note 3, Discontinued Operations of the Notes to Condensed Consolidated Financial Statements. Information by reportable segment is as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid

#000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total Segments:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,525,749 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,354,390 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,491,450 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">3,850,631 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">610,589 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">492,791 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,758,823 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,380,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">40 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Design Automation:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,062,666 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,004,156 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">3,102,938 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,821,570 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">440,864 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">410,023 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,218,574 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,102,837 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">41 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">41 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Design IP:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">463,083 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">350,234 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-

weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,388,512 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,029,061 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">169,725 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">82,768 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">540,249 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">277,700 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">37 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">24 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table> Certain operating expenses are not allocated to the segments and are managed at a consolidated level. The unallocated expenses managed at a consolidated level, including amortization of acquired intangible assets, stock-based compensation, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture related items, are presented in the table below to provide a reconciliation of the total adjusted operating income from segments to our consolidated operating income from continuing operations:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total segment adjusted operating income</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">610,589 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">492,791 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,758,823 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,380,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Reconciling items:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Amortization of acquired intangible assets </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(18,572)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13,008)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(53,317)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(38,632)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Stock-based compensation expense</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(164,354)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(131,496)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(492,550)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(384,454)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(25,780)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(21,492)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(76,276)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-

serif;font-size:10pt;font-weight:400;line-height:100%">(44,123)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Restructuring charges</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(21,879)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(54,439)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Acquisition/divestiture related items </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(41,672)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,840)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(91,771)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,815)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total operating income</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">360,211 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">300,076 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,044,909 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">849,074 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> The CODM does not use total assets by segment to evaluate segment performance or allocate resources. As a result, total assets by segment are not disclosed. In allocating revenue to particular geographic areas, the CODM considers where individual “seats” or licenses to our products are located. Revenue is defined as revenue from external customers. Revenue related to operations in the United States and other geographic areas are: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Revenue:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">United States</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">660,479 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">561,500 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,015,066 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,733,107 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Europe</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">144,631 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">125,789 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">429,377 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">377,087 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">China</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">266,699 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">292,079 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">729,583 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-

*align:right;vertical-align:bottom">673,575 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Korea</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">194,817 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">161,848 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">569,538 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">459,384 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Other</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">259,123 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">213,174 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">747,886 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">607,478 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Consolidated</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,525,749 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,354,390 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">4,491,450 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">3,850,631 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> Geographic revenue data for multi-regional, multi-product transactions reflect internal allocations and are therefore subject to certain assumptions and to our allocation methodology. 2 Information by reportable segment is as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total Segments:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,525,749 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,354,390 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">4,491,450 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">3,850,631 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">610,589 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">492,791 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,758,823 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,380,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">40 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-*

family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">36 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Design Automation:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,062,666 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,004,156 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">3,102,938 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,821,570 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">440,864 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">410,023 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,218,574 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,102,837 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">41 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">41 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Design IP:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Revenue</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">463,083 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">350,234 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,388,512 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,029,061 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating income</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">169,725 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">82,768 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">540,249 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">277,700 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Adjusted operating margin</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">37 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">24 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">27 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table> 1525749000 1354390000 4491450000 3850631000 610589000 492791000 1758823000 1380537000 0.40 0.36 0.39 0.36 1062666000 1004156000 3102938000 2821570000 440864000 410023000 1218574000 1102837000 0.41 0.41 0.39 0.39 463083000 350234000 1388512000 1029061000 169725000 82768000 540249000 277700000 0.37 0.24 0.39 0.27 The unallocated expenses managed at a consolidated level, including amortization of acquired intangible assets, stock-based compensation, changes in the fair value of deferred compensation plan, restructuring charges, and acquisition/divestiture related items, are presented in the table below to provide a reconciliation of the total adjusted operating income from segments to our consolidated operating income from continuing operations:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-

serif;font-size:8pt;font-weight:700;line-height:100%">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total segment adjusted operating income</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">610,589 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">492,791 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,758,823 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,380,537 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Reconciling items:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Amortization of acquired intangible assets </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(18,572)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(13,008)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(53,317)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(38,632)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Stock-based compensation expense</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(164,354)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(131,496)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(492,550)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(384,454)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Deferred compensation plan</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(25,780)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(21,492)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(76,276)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(44,123)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Restructuring charges</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(21,879)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(54,439)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Acquisition/divestiture related items </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(41,672)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(4,840)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(91,771)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,815)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Total operating income</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">360,211 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">300,076 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,044,909 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">849,074 </td><td style="background-color:#ffffff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 610589000 492791000 1758823000 1380537000 18572000 13008000 53317000 38632000 164354000 131496000 492550000 384454000 -25780000 -21492000 -76276000 -44123000 0 21879000 0 54439000 41672000 4840000 91771000 9815000 360211000 300076000 1044909000 849074000 Revenue related to operations in the United States and other geographic areas are: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td>

<td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Revenue:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">United States</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">660,479 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">561,500 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">2,015,066 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,733,107 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Europe</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">144,631 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">125,789 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">429,377 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">377,087 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">China</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">266,699 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">292,079 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">729,583 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">673,575 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Korea</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">194,817 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">161,848 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">569,538 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">459,384 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:top">Other</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">259,123 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">213,174 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">747,886 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">607,478 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:top">Consolidated</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,525,749 </td><td style="background-color:#cceeff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,354,390 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">4,491,450 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">3,850,631 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 660479000 561500000 2015066000 1733107000 144631000 125789000 429377000 377087000 266699000 292079000 729583000 673575000 194817000 161848000 569538000 459384000 259123000 213174000 747886000 607478000 1525749000 1354390000 4491450000 3850631000 Interest and Other Income (Expense), Net The following table presents the components of interest and other income (expense), net: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td

style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Interest income</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">15,717 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">11,877 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">40,508 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">26,875 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Interest expense</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(11,752)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(342)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(19,409)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(918)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Gains (losses) on assets related to deferred compensation plan</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,780 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21,492 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">76,276 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,123 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Foreign currency exchange gains (losses)</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">329 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,438 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">352 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Gain on sale of strategic investments </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">55,077 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,710 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(7,569)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,820)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(17,801)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">31,784 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">25,484 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">146,070 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">52,631 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table>

The following table presents the components of interest and other income (expense), net:

<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td>

<td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Interest income</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">15,717 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">11,877 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">40,508 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">26,875 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Interest expense</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(11,752)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(342)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(19,409)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(918)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Gains (losses) on assets related to deferred compensation plan</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,780 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21,492 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">76,276 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">44,123 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Foreign currency exchange gains (losses)</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">329 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">26 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,438 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">352 </td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top"> Gain on sale of strategic investments </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">55,077 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Other, net</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,710 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(7,569)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(9,820)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(17,801)</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Total</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">31,784 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">25,484 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">146,070 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">52,631 </td><td style="background-color:#cceeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 15717000 11877000 40508000 26875000 11752000 342000 19409000 918000 25780000 21492000 76276000 44123000 329000 26000 3438000 352000 0 0 55077000 0 1710000 -7569000 -9820000 -17801000 31784000 25484000 146070000 52631000 Income Taxes Effective Tax Rate

We estimate our annual effective tax rate at the end of each fiscal quarter. The effective tax rate takes into account our estimations of annual pre-tax income, the geographic mix of pre-tax income and interpretations of tax laws and possible outcomes of audits. The following table presents the provision for income taxes and the effective tax rates: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Income before income taxes</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">391,995 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">325,560 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,190,979 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">901,705 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Provision (benefit) for income taxes</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(30,712)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(6,951)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">37,634 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">29,779 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Effective tax rate</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(7.8)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(2.1)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3.2 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table> Our effective tax rate for the nine months ended July 31, 2024, is lower than the statutory federal corporate tax rate of 21% primarily due to U.S. federal research tax credits, foreign-derived intangible income deduction, excess tax benefits from stock-based compensation, U.S. foreign tax credits, and tax benefits from a valuation allowance release against California research credits, partially offset by state taxes and the effect of non-deductible stock-based compensation. Our effective tax rate decreased in the three months ended July 31, 2024, as compared to the same period in fiscal 2023, primarily due to the tax benefits recorded as a result of the valuation allowance release. Our effective tax rate for the nine months ended July 31, 2024 is consistent with the same period in fiscal 2023. The timing of the resolution of income tax examinations, and the amounts and timing of various tax payments that are part of the settlement process, are highly uncertain. Variations in such amounts and/or timing could cause large fluctuations in the balance sheet classification of current and non-current assets and liabilities. We believe that in the coming 12 months, it is reasonably possible that either certain audits and ongoing tax litigation will conclude or the statute of limitations on certain state and foreign income and withholding taxes will expire, or both. Given the uncertainty as to ultimate settlement terms, the timing of payment and the impact of such settlements on other uncertain tax positions, the range of the estimated potential decrease in underlying unrecognized tax benefits is between $0 and $7.0 million. Non-U.S. Examinations Hungarian Tax Authority In 2017, the Hungarian Tax Authority (the HTA) assessed withholding taxes of approximately $25.0 million and interest and penalties of $11.0 million against our Hungary subsidiary (Synopsys Hungary). Synopsys Hungary contested the assessment with the Hungarian Administrative Court (Administrative Court). In fiscal 2018, Synopsys Hungary paid the assessment. Following years of litigation, the Administrative Court issued its written decision in favor of Synopsys Hungary on May 17, 2023, and the HTA subsequently refunded Synopsys Hungary the tax, penalty and interest paid in fiscal 2018, as well as additional interest totaling $39.1 million (including foreign currency effects). During the third quarter of fiscal 2023, we released our unrecognized tax benefit and offsetting U.S. foreign tax credits, resulting in a net benefit of $23.8 million. We are also under examination by the tax authorities in certain other jurisdictions. No material assessments have been proposed in these examinations. Legislative Developments Effective our fiscal 2024, we are subject to the new 15% corporate alternative minimum tax (CAMT) enacted as part of the Inflation Reduction Act of 2022. We do not expect any impact of CAMT in fiscal 2024. On January 31, 2024, the House of Representatives has passed the Tax Relief for American Families and Workers Act of 2024 (H.R. 7024) which would defer the requirement of capitalizing research and development, based in the United States, until tax years starting after December 31, 2025. The proposed legislation would have a beneficial impact on our cash tax liabilities, if enacted. The Senate rejected the bill in August 2024 and its future remains uncertain. On June 27, 2024, California enacted SB-167, which suspends the use of California net operating loss and limits the use of California research tax credits to $5 million each year for our fiscal 2025-2027. On June 29, 2024, California enacted SB-175, which provides a refund mechanism for the incremental tax that was paid as a result of SB-167. We are evaluating the impact of the law change. The following table presents the provision for income taxes and the effective tax rates: <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.227%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td

style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:13.526%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended
 July 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Nine Months Ended
 July 31,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="border-bottom:1pt solid #000000;border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="21" style="border-top:1pt solid #000000;padding:2px 1pt;text-align:center;vertical-align:bottom">(in thousands)</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Income before income taxes</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">391,995 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">325,560 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,190,979 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">901,705 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:top">Provision (benefit) for income taxes</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(30,712)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">(6,951)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">37,634 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Arial',sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">29,779 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:top">Effective tax rate</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(7.8)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(2.1)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3.2 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3.3 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table>

391995000 325560000 1190979000 901705000 -30712000 -6951000 37634000 29779000 -0.078 -0.021 0.032 0.033 0.21 0 7000000.0 25000000.0 11000000.0 -39100000 23800000 Contingencies

Legal Proceedings

We are subject to routine legal proceedings, as well as demands, claims and threatened litigation that arise in the normal course of our business. The ultimate outcome of any litigation is often uncertain and unfavorable outcomes could have a negative impact on our results of operations and financial condition. We regularly review the status of each significant matter and assess our potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount is estimable, we accrue a liability for the estimated loss. Legal proceedings are inherently uncertain and, as circumstances change, it is possible that the amount of any accrued liability may increase, decrease or be eliminated.

We have determined that, except as set forth below, no disclosure of estimated loss is required for a claim against us because: (1) there is not a reasonable possibility that a loss exceeding amounts already recognized (if any) may be incurred with respect to such claim; (2) a reasonably possible loss or range of loss cannot be estimated; or (3) such estimate is immaterial.

Legal Settlement

In March 2017, Siemens PLM Software (now Siemens Industry Software Inc. or SISW) acquired Mentor Graphics Corporation (Mentor). On June 29, 2018, we, SISW and Mentor settled all outstanding patent litigation between us and Mentor for a $65.0 million payment made from us to Mentor. As a result of the settlement, the litigation with Mentor was dismissed and the injunction entered in connection with that litigation was vacated. The settlement included mutual seven-year patent cross-licenses between us and SISW, and between us and Mentor. We and Mentor also amended an existing interoperability agreement to collaborate on a wide range of EDA products for the benefit of our mutual customers (the interoperability amendment). The interoperability amendment includes a one-time termination charge between $0.0 and $25.0 million, payable to SISW under certain conditions. Mentor no longer exists as an independent entity and is succeeded by SISW.

In June 2024, the parties extended the existing patent cross-license to December 31, 2031, and entered into a new cross-license of patents related to certain computer-aided engineering technology. The new cross-license is conditioned on the close of the Ansys Merger and expires on December 31, 2031. The interoperability amendment expires by its terms on June 29, 2025.

Tax Matters

We undergo examination from time to time by U.S. and foreign authorities for non-income based taxes, such as sales, use and value-added taxes, and are currently under examination by tax authorities in certain jurisdictions. If the potential loss from such examinations is considered probable and the amount or the range of loss could be estimated, we would accrue a liability for the estimated expense.

In addition to the foregoing, we are, from time to time, party to various other claims and legal proceedings in the ordinary course of our business, including with tax and other governmental authorities. For a description of certain of these other matters, see Note 20.

Income Taxes of the **Notes to Condensed Consolidated Financial Statements** in this Quarterly Report on Form 10-Q.

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