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DELTA REPORT

10-Q

CISCO SYSTEMS, INC.

10-Q - JANUARY 27, 2024 COMPARED TO 10-Q - OCTOBER 28, 2023

The following comparison report has been automatically generated

TOTAL DELTAS	1160
CHANGES	212
DELETIONS	401
ADDITIONS	547

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

(Mark One)

☒ **QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the quarterly period ended October 28, 2023 January 27, 2024

or

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from ______to ______

Commission file number 001-39940

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CISCO SYSTEMS, INC.

(Exact name of registrant as specified in its charter)

Delaware	**77-0059951**
(State or other jurisdiction of incorporation or organization)	**(I.R.S. Employer Identification Number)**

170 West Tasman Drive
San Jose, California 95134
(Address of principal executive office and zip code)

(408) 526-4000
(Registrant's telephone number, including area code)

Not Applicable
(Former name, former address and formal fiscal year, if changed since last report.)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value $0.001 per share	CSCO	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant (1) has 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 the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	☒	Accelerated filer	☐
Non-accelerated filer	☐	Smaller reporting company	☐
		Emerging growth company	☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

Number of shares of the registrant's common stock outstanding as of November 16, 2023 February 15, 2024: 4,063,475,676 4,049,187,080

Cisco Systems, Inc.
Form 10-Q for the Quarter Ended October 28, 2023 January 27, 2024

INDEX

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PART I. FINANCIAL INFORMATION

Item 1. **Financial Statements (Unaudited)**

CISCO SYSTEMS, INC.
CONSOLIDATED BALANCE SHEETS
(in millions, except par value)
(Unaudited)

		October 28, 2023	July 29, 2023		
January 27, 2024				January 27, 2024	July 29, 2023
ASSETS	**ASSETS**				
Current assets:	Current assets:				
Current assets:					
Current assets:					
Cash and cash equivalents					
Cash and cash equivalents					
Cash and cash equivalents	Cash and cash equivalents	$ 9,602	$ 10,123		
Investments	Investments	13,921	16,023		
Accounts receivable, net of allowance of $82 at October 28, 2023 and $85 at July 29, 2023		4,833	5,854		

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Accounts receivable, net of allowance of $79 at January 27, 2024 and $85 at July 29, 2023				
Inventories	Inventories	3,342	3,644	
Financing receivables, net	Financing receivables, net	3,414	3,352	
Other current assets	Other current assets	4,547	4,352	
Total current assets	Total current assets	39,659	43,348	
Property and equipment, net	Property and equipment, net	2,004	2,085	
Financing receivables, net	Financing receivables, net	3,324	3,483	
Goodwill	Goodwill	38,900	38,535	
Purchased intangible assets, net	Purchased intangible assets, net	1,914	1,818	
Deferred tax assets	Deferred tax assets	7,102	6,576	
Other assets	Other assets	5,879	6,007	
TOTAL ASSETS	**TOTAL ASSETS**	$ 98,782	$ 101,852	
LIABILITIES AND EQUITY	**LIABILITIES AND EQUITY**			
Current liabilities:	Current liabilities:			
Current liabilities:				
Current liabilities:				
Short-term debt				
Short-term debt				
Short-term debt	Short-term debt	$ 990	$ 1,733	
Accounts payable	Accounts payable	2,084	2,313	
Income taxes payable	Income taxes payable	2,380	4,235	
Accrued compensation	Accrued compensation	3,039	3,984	
Deferred revenue	Deferred revenue	13,812	13,908	
Other current liabilities	Other current liabilities	4,730	5,136	
Total current liabilities	Total current liabilities	27,035	31,309	
Long-term debt	Long-term debt	6,660	6,658	
Income taxes payable	Income taxes payable	5,790	5,756	
Deferred revenue	Deferred revenue	11,847	11,642	
Other long-term liabilities	Other long-term liabilities	2,240	2,134	
Total liabilities	Total liabilities	53,572	57,499	
Commitments and contingencies (Note 14)	Commitments and contingencies (Note 14)			Commitments and contingencies (Note 14)
Equity:	Equity:			

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Cisco stockholders' equity:	Cisco stockholders' equity:		
Cisco stockholders' equity:			
Cisco stockholders' equity:			
Preferred stock, $0.001 par value: 5 shares authorized; none issued and outstanding	Preferred stock, $0.001 par value: 5 shares authorized; none issued and outstanding	—	—
Common stock and additional paid-in capital, $0.001 par value: 20,000 shares authorized; 4,049 and 4,066 shares issued and outstanding at October 28, 2023 and July 29, 2023, respectively		44,546	44,289
Preferred stock, $0.001 par value: 5 shares authorized; none issued and outstanding			
Preferred stock, $0.001 par value: 5 shares authorized; none issued and outstanding			
Common stock and additional paid-in capital, $0.001 par value: 20,000 shares authorized; 4,050 and 4,066 shares issued and outstanding at January 27, 2024 and July 29, 2023, respectively			
Retained earnings	Retained earnings	2,689	1,639
Accumulated other comprehensive loss	Accumulated other comprehensive loss	(2,025)	(1,575)
Total equity	Total equity	45,210	44,353
TOTAL LIABILITIES AND EQUITY	**TOTAL LIABILITIES AND EQUITY**	$98,782	$101,852

See Notes to Consolidated Financial Statements.

CISCO SYSTEMS, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS
(in millions, except per-share amounts)
(Unaudited)

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended			Three Months Ended		Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
REVENUE:	**REVENUE:**						
Product							

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Product			
Product	Product	$11,139	$10,245
Service	Service	3,529	3,387
Total revenue	Total revenue	14,668	13,632
COST OF SALES:	**COST OF SALES:**		
Product	Product	3,957	4,179
Product			
Product			
Service	Service	1,154	1,107
Total cost of sales	Total cost of sales	5,111	5,286
GROSS MARGIN	**GROSS MARGIN**	9,557	8,346
OPERATING EXPENSES:	**OPERATING EXPENSES:**		
Research and development			
Research and development			
Research and development	Research and development	1,913	1,781
Sales and marketing	Sales and marketing	2,506	2,391
General and administrative	General and administrative	672	565
Amortization of purchased intangible assets	Amortization of purchased intangible assets	67	71
Restructuring and other charges	Restructuring and other charges	123	(2)
Total operating expenses	Total operating expenses	5,281	4,806
OPERATING INCOME	**OPERATING INCOME**	4,276	3,540
Interest income	Interest income	360	169
Interest expense	Interest expense	(111)	(100)
Other income (loss), net	Other income (loss), net	(83)	(134)
Interest and other income (loss), net	Interest and other income (loss), net	166	(65)
INCOME BEFORE PROVISION FOR INCOME TAXES	**INCOME BEFORE PROVISION FOR INCOME TAXES**	4,442	3,475
Provision for income taxes	Provision for income taxes	804	805
NET INCOME	**NET INCOME**	$ 3,638	$ 2,670

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Net income per share:	Net income per share:		
Net income per share:			
Net income per share:			
Basic			
Basic			
Basic	Basic	$ 0.90	$ 0.65
Diluted	Diluted	$ 0.89	$ 0.65
Shares used in per-share calculation:	Shares used in per-share calculation:		
Basic			
Basic			
Basic	Basic	4,057	4,108
Diluted	Diluted	4,087	4,116

See Notes to Consolidated Financial Statements.

CISCO SYSTEMS, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(in millions)
(Unaudited)

	Three Months Ended	
	October 28, 2023	October 29, 2022
Net income	$ 3,638	$ 2,670
Available-for-sale investments:		
Change in net unrealized gains and losses, net of tax benefit (expense) of $40 and $78 for the first quarter of fiscal 2024 and 2023, respectively	(130)	(251)
Net (gains) losses reclassified into earnings, net of tax (benefit) expense of $(4) and $(1) for the first quarter of fiscal 2024 and 2023, respectively	16	5
	(114)	(246)
Cash flow hedging instruments:		
Change in unrealized gains and losses, net of tax benefit (expense) of $(9) and $(8) for the first quarter of fiscal 2024 and 2023, respectively	29	24
Net (gains) losses reclassified into earnings, net of tax (benefit) expense of $3 and $5 for the first quarter of fiscal 2024 and 2023, respectively	(9)	(14)
	20	10
Net change in cumulative translation adjustment and actuarial gains and losses net of tax benefit (expense) of $1 and $22 for the first quarter of fiscal 2024 and 2023, respectively	(356)	(260)
Other comprehensive income (loss)	(450)	(496)
Comprehensive income	$ 3,188	$ 2,174

	Three Months Ended		Six Months Ended	
	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Net income	$ 2,634	$ 2,773	$ 6,272	$ 5,443
Available-for-sale investments:				
Change in net unrealized gains and losses, net of tax benefit (expense) of $(73) and $(33) for the second quarter and first six months of fiscal 2024, respectively, and $(66) and $12 for the corresponding periods of fiscal 2023, respectively	229	187	99	(64)
Net (gains) losses reclassified into earnings, net of tax (benefit) expense of $(5) and $(9) for the second quarter and first six months of fiscal 2024, respectively, and $0 and $(1) for the corresponding periods of fiscal 2023, respectively	18	3	34	8
	247	190	133	(56)

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Cash flow hedging instruments:				
Change in unrealized gains and losses, net of tax benefit (expense) of $0 and $(9) for the second quarter and first six months of fiscal 2024, respectively, and $11 and $3 for the corresponding periods of fiscal 2023, respectively	1	(33)	30	(9)
Net (gains) losses reclassified into earnings, net of tax (benefit) expense of $2 and $5 for the second quarter and first six months of fiscal 2024, respectively, and $4 and $9 for the corresponding periods of fiscal 2023, respectively	(9)	(14)	(18)	(28)
	(8)	(47)	12	(37)
Net change in cumulative translation adjustment and actuarial gains and losses net of tax benefit (expense) of $0 and $1 for the second quarter and first six months of fiscal 2024, respectively, and $2 and $24 for the corresponding periods of fiscal 2023, respectively	274	389	(82)	129
Other comprehensive income	513	532	63	36
Comprehensive income	$ 3,147	$ 3,305	$ 6,335	$ 5,479

See Notes to Consolidated Financial Statements.

CISCO SYSTEMS, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in millions)
(Unaudited)

		Three Months Ended			
		October 28, 2023	October 29, 2022		
	Six Months Ended				Six Months Ended
	January 27, 2024			January 27, 2024	January 28, 2023
Cash flows from operating activities:	Cash flows from operating activities:				
Net income	Net income	$ 3,638	$ 2,670		
Net income					
Net income					
Adjustments to reconcile net income to net cash provided by operating activities:	Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation, amortization, and other					
Depreciation, amortization, and other					
Depreciation, amortization, and other	Depreciation, amortization, and other	401	415		
Share-based compensation expense	Share-based compensation expense	661	496		
Provision (benefit) for receivables	Provision (benefit) for receivables	4	7		
Deferred income taxes	Deferred income taxes	(513)	(366)		
(Gains) losses on divestitures, investments and other, net	(Gains) losses on divestitures, investments and other, net	89	131		

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Change in operating assets and liabilities, net of effects of acquisitions and divestitures:	Change in operating assets and liabilities, net of effects of acquisitions and divestitures:		
Accounts receivable Accounts receivable			
Accounts receivable	Accounts receivable	979	1,119
Inventories	Inventories	307	(108)
Financing receivables	Financing receivables	25	556
Other assets	Other assets	(290)	(316)
Accounts payable	Accounts payable	(235)	42
Income taxes, net	Income taxes, net	(1,773)	20
Accrued compensation	Accrued compensation	(908)	(384)
Deferred revenue	Deferred revenue	259	(78)
Other liabilities	Other liabilities	(273)	(242)
Net cash provided by operating activities	Net cash provided by operating activities	2,371	3,962
Cash flows from investing activities:	Cash flows from investing activities:		
Purchases of investments	Purchases of investments	(1,850)	(1,943)
Purchases of investments Purchases of investments			
Proceeds from sales of investments	Proceeds from sales of investments	1,280	407
Proceeds from maturities of investments	Proceeds from maturities of investments	2,497	971
Acquisitions, net of cash and cash equivalents acquired and divestitures		(876)	—
Acquisitions, net of cash and cash equivalents acquired			
Purchases of investments in privately held companies	Purchases of investments in privately held companies	(13)	(48)
Return of investments in privately held companies	Return of investments in privately held companies	47	10
Acquisition of property and equipment	Acquisition of property and equipment	(134)	(176)
Other	Other	1	(20)

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Net cash provided by (used in) investing activities	Net cash provided by (used in) investing activities	952	(799)
Cash flows from financing activities:	Cash flows from financing activities:		
Issuances of common stock			
Issuances of common stock			
Issuances of common stock			
Repurchases of common stock—repurchase program	Repurchases of common stock—repurchase program	(1,300)	(556)
Shares repurchased for tax withholdings on vesting of restricted stock units	Shares repurchased for tax withholdings on vesting of restricted stock units	(153)	(108)
Short-term borrowings, original maturities of 90 days or less, net	Short-term borrowings, original maturities of 90 days or less, net	—	(602)
Issuances of debt			
Repayments of debt	Repayments of debt	(750)	—
Dividends paid	Dividends paid	(1,580)	(1,560)
Other	Other	(17)	(29)
Net cash used in financing activities	Net cash used in financing activities	(3,800)	(2,855)
Effect of foreign currency exchange rate changes on cash, cash equivalents, restricted cash and restricted cash equivalents	Effect of foreign currency exchange rate changes on cash, cash equivalents, restricted cash and restricted cash equivalents	(45)	(95)
Net increase (decrease) in cash, cash equivalents, restricted cash and restricted cash equivalents	Net increase (decrease) in cash, cash equivalents, restricted cash and restricted cash equivalents	(522)	213
Cash, cash equivalents, restricted cash and restricted cash equivalents, beginning of period	Cash, cash equivalents, restricted cash and restricted cash equivalents, beginning of period	11,627	8,579
Cash, cash equivalents, restricted cash and restricted cash equivalents, end of period	Cash, cash equivalents, restricted cash and restricted cash equivalents, end of period	$ 11,105	$ 8,792
Supplemental cash flow information:	Supplemental cash flow information:		
Supplemental cash flow information:			
Supplemental cash flow information:			
Cash paid for interest			
Cash paid for interest			
Cash paid for interest	Cash paid for interest	$ 128	$ 114
Cash paid for income taxes, net	Cash paid for income taxes, net	$ 3,090	$ 1,150

See Notes to Consolidated Financial Statements.

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CISCO SYSTEMS, INC.
CONSOLIDATED STATEMENTS OF EQUITY
(in millions, except per-share amounts)
(Unaudited)

Three Months Ended October 28, 2023		Shares of Common Stock	Common Stock and Additional Paid-In Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Total Equity
Balance at July 29, 2023		4,066	$ 44,289	$ 1,639	$ (1,575)	$ 44,353
Three Months Ended January 27, 2024	Three Months Ended January 27, 2024	Shares of Common Stock	Common Stock and Additional Paid-In Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Total Equity
Balance at October 28, 2023						
Net income	Net income			3,638		3,638
Other comprehensive loss					(450)	(450)
Other comprehensive income (loss)						
Issuance of common stock	Issuance of common stock	9	—			—
Repurchase of common stock	Repurchase of common stock	(23)	(249)	(1,003)		(1,252)
Shares repurchased for tax withholdings on vesting of restricted stock units and other	Shares repurchased for tax withholdings on vesting of restricted stock units and other	(3)	(156)			(156)
Cash dividends declared ($0.39 per common share)	Cash dividends declared ($0.39 per common share)			(1,580)		(1,580)
Share-based compensation	Share-based compensation		661			661
Other	Other		1	(5)		(4)
Balance at October 28, 2023		4,049	$ 44,546	$ 2,689	$ (2,025)	$ 45,210
Balance at January 27, 2024						

Three Months Ended October 29, 2022	Shares of Common Stock	Common Stock and Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Loss	Total Equity
Balance at July 30, 2022	4,110	$ 42,714	$ (1,319)	$ (1,622)	$ 39,773

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Six Months Ended January 27, 2024	Six Months Ended January 27, 2024	Shares of Common Stock	Common Stock and Additional Paid-In Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Total Equity
Balance at July 29, 2023						
Net income	Net income			2,670		2,670
Other comprehensive loss					(496)	(496)
Other comprehensive income (loss)						
Issuance of common stock	Issuance of common stock	7	—			—
Repurchase of common stock	Repurchase of common stock	(12)	(118)	(384)		(502)
Shares repurchased for tax withholdings on vesting of restricted stock units and other	Shares repurchased for tax withholdings on vesting of restricted stock units and other	(2)	(108)			(108)
Cash dividends declared ($0.38 per common share)				(1,560)		(1,560)
Cash dividends declared ($0.78 per common share)						
Share-based compensation	Share-based compensation		496			496
Other	Other		—	(1)		(1)
Balance at October 29, 2022		4,103	$ 42,984	$ (594)	$ (2,118)	$ 40,272
Balance at January 27, 2024						

CISCO SYSTEMS, INC.
CONSOLIDATED STATEMENTS OF EQUITY
(in millions, except per-share amounts)
(Unaudited)

Three Months Ended January 28, 2023	Shares of Common Stock	Common Stock and Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Loss	Total Equity
Balance at October 29, 2022	4,103	$ 42,984	$ (594)	$ (2,118)	$ 40,272
Net income			2,773		2,773
Other comprehensive income (loss)				532	532
Issuance of common stock	23	316			316
Repurchase of common stock	(26)	(276)	(980)		(1,256)

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Shares repurchased for tax withholdings on vesting of restricted stock units and other	(5)	(202)			(202)
Cash dividends declared ($0.38 per common share)			(1,560)		(1,560)
Share-based compensation		601			601
Other		1	(3)		(2)
Balance at January 28, 2023	4,095	$ 43,424	$ (364)	$ (1,586)	$ 41,474

Six Months Ended January 28, 2023	Shares of Common Stock	Common Stock and Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Loss	Total Equity
Balance at July 30, 2022	4,110	$ 42,714	$ (1,319)	$ (1,622)	$ 39,773
Net income			5,443		5,443
Other comprehensive income (loss)				36	36
Issuance of common stock	30	316			316
Repurchase of common stock	(38)	(394)	(1,364)		(1,758)
Shares repurchased for tax withholdings on vesting of restricted stock units and other	(7)	(310)			(310)
Cash dividends declared ($0.76 per common share)			(3,120)		(3,120)
Share-based compensation		1,097			1,097
Other		1	(4)		(3)
Balance at January 28, 2023	4,095	$ 43,424	$ (364)	$ (1,586)	$ 41,474

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

1. Organization and Basis of Presentation

The fiscal year for Cisco Systems, Inc. (the “Company,” “Cisco,” “we,” “us,” or “our”) is the 52 or 53 weeks ending on the last Saturday in July. Fiscal 2024 and fiscal 2023 are each 52-week fiscal years. The Consolidated Financial Statements include our accounts and those of our subsidiaries. All intercompany accounts and transactions have been eliminated. We conduct business globally and are primarily managed on a geographic basis in the following three geographic segments: the Americas; Europe, Middle East, and Africa (EMEA); and Asia Pacific, Japan, and China (APJC).

We have prepared the accompanying financial data as of October 28, 2023 January 27, 2024 and for the second quarter and first quarter six months of fiscal 2024 and 2023, without audit, pursuant to the rules and regulations of the U.S. Securities and Exchange Commission (SEC). Certain information and footnote disclosures normally included in financial statements prepared in accordance with generally accepted accounting principles in the United States (GAAP) have been condensed or omitted pursuant to such rules and regulations. The July 29, 2023 Consolidated Balance Sheet was derived from audited financial statements, but does not include all disclosures required by accounting principles generally accepted in the United States. However, we believe that the disclosures are adequate to make the information presented not misleading. These Consolidated Financial Statements should be read in conjunction with the Consolidated Financial Statements and the notes thereto included in our Annual Report on Form 10-K for the fiscal year ended July 29, 2023.

In the opinion of management, all normal recurring adjustments necessary to state fairly the consolidated balance sheet as of October 28, 2023 January 27, 2024, the results of operations, the statements of comprehensive income the statements of cash flows and the statements of equity for the second quarter and first quarter six months of fiscal 2024 and 2023, and the statements of cash flows for the first six months of fiscal 2024 and 2023, as applicable, have been made. The results of operations for the second quarter and first quarter six months of fiscal 2024 are not necessarily indicative of the operating results for the full fiscal year or any future periods.

Our consolidated financial statements include our accounts and investments consolidated under the voting interest model. The noncontrolling interests attributed to these investments are not presented as a separate component in the equity section of the Consolidated Balance Sheets as these amounts are not material for any of the fiscal periods presented. The share of earnings attributable to the noncontrolling interests are not presented separately in the Consolidated Statements of Operations as these amounts are not material for any of the fiscal periods presented.

Certain reclassifications have been made to the amounts in prior periods in order to conform to the current period’s presentation. We have evaluated subsequent events through the date that the financial statements were issued.

2. Recent Accounting Pronouncements

There have been no recent **(a) Recent Accounting Standards or Updates Not Yet Effective**

Segment Reporting In November 2023, the Financial Accounting Standards Board (FASB) issued an accounting pronouncements issued standard update that we believe expands the disclosure requirements for reportable segments, primarily through enhanced disclosures around significant segment expenses. The accounting standard update will have be

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effective for our fiscal 2025 Form 10-K on a material retrospective basis, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our Consolidated Financial Statements. segment disclosures.

Improvements on Income Tax Disclosures In December 2023, the FASB issued an accounting standard update expanding the requirements for disclosure of disaggregated information about the effective tax rate reconciliation and income taxes paid. The accounting standard update will be effective for our fiscal 2026 Form 10-K. We are currently evaluating the impact of this accounting standard update on our income tax disclosures.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

3. Revenue

We enter into contracts with customers that can include various combinations of products and services which are generally distinct and accounted for as separate performance obligations. As a result, our contracts may contain multiple performance obligations. We determine whether arrangements are distinct based on whether the customer can benefit from the product or service on its own or together with other resources that are readily available and whether our commitment to transfer the product or service to the customer is separately identifiable from other obligations in the contract. We classify our hardware, perpetual software licenses, and software-as-a-service (SaaS) as distinct performance obligations. Term software licenses represent multiple obligations, which include software licenses and software maintenance. In transactions where we deliver hardware or software, we are typically the principal and we record revenue and costs of goods sold on a gross basis. We refer to our term software licenses, security software licenses, SaaS, and associated service arrangements as subscription offers.

We recognize revenue upon transfer of control of promised goods or services in a contract with a customer in an amount that reflects the consideration we expect to receive in exchange for those products or services. Transfer of control occurs once the customer has the contractual right to use the product, generally upon shipment, electronic delivery (or when the software is available for download by the customer), or once title and risk of loss has transferred to the customer. Transfer of control can also occur over time for software maintenance and services as the customer receives the benefit over the contract term. Our hardware and perpetual software licenses are distinct performance obligations where revenue is recognized upfront upon transfer of control. Term software licenses include multiple performance obligations where the term licenses are recognized

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

upfront upon transfer of control, with the associated software maintenance revenue recognized ratably over the contract term as services and software updates are provided. SaaS arrangements do not include the right for the customer to take possession of the software during the term, and therefore have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term as the customer consumes the services. On our product sales, we record consideration from shipping and handling on a gross basis within net product sales. We record our revenue net of any associated sales taxes.

An allowance for future sales returns is established based on historical trends in product return rates. The allowance for future sales returns as of October 28, 2023 January 27, 2024 and July 29, 2023 was $37 million $36 million and $39 million, respectively, and was recorded as a reduction of our accounts receivable and revenue.

Significant Judgments

Revenue is allocated among these performance obligations in a manner that reflects the consideration that we expect to be entitled to for the promised goods or services based on standalone selling prices (SSP). SSP is estimated for each distinct performance obligation and judgment may be required in their determination. The best evidence of SSP is the observable price of a product or service when we sell the goods separately in similar circumstances and to similar customers. In instances where SSP is not directly observable, we determine SSP using information that may include market conditions and other observable inputs.

We assess relevant contractual terms in our customer contracts to determine the transaction price. We apply judgment in identifying contractual terms and determining the transaction price as we may be required to estimate variable consideration when determining the amount of revenue to recognize. Variable consideration includes potential contractual penalties and various rebate, cooperative marketing and other incentive programs that we offer to our distributors, channel partners and customers. When determining the amount of revenue to recognize, we estimate the expected usage of these programs, applying the expected value or most likely estimate and update the estimate at each reporting period as actual utilization becomes available. We also consider the customers' right of return in determining the transaction price, where applicable.

We assess certain software licenses, such as for security software, that contain critical updates or upgrades which customers can download throughout the contract term. Without these updates or upgrades, the functionality of the software would diminish over a relatively short time period. These updates or upgrades provide the customer the full functionality of the purchased security software licenses and are required to maintain the security license's utility as the risks and threats in the environment are rapidly changing. In these circumstances, the revenue from these software arrangements is recognized as a single performance obligation satisfied over the contract term.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(a) Disaggregation of Revenue

We disaggregate our revenue into groups of similar products and services that depict the nature, amount, and timing of revenue and cash flows for our various offerings. The sales cycle, contractual obligations, customer requirements, and go-to-market strategies differ for each of our product categories, resulting in different economic risk profiles for each category. Effective in the first quarter of fiscal 2024, we began reporting our product and service revenue in the following categories: Networking, Security, Collaboration,

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Observability, and Services and conformed our product revenue for prior periods to the current period presentation. The following table presents this disaggregation of revenue (in millions):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended			Three Months Ended		Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Product revenue:	Product revenue:						
Networking							
Networking							
Networking	Networking	$ 8,822	$ 8,031				
Security	Security	1,010	971				
Collaboration	Collaboration	1,117	1,086				
Observability	Observability	190	157				
Total Product	Total Product	11,139	10,245				
Services	Services	3,529	3,387				
Total	Total	$14,668	$13,632				

Amounts may not sum due to rounding.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

Networking consists of our core networking technologies of switching, routing, wireless, 5G, silicon, optics solutions and compute products. These technologies consist of both hardware and software offerings, including software licenses and SaaS. Our hardware and perpetual software in this category are distinct performance obligations where revenue is recognized upfront upon transfer of control. Term software licenses are multiple performance obligations where the term license is recognized upfront upon transfer of control with the associated software maintenance revenue recognized ratably over the contract term. SaaS arrangements in this category have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term.

Security consists of our Cloud and Application Security, Industrial Security, Network Security, and User and Device Security offerings. These products consist of both hardware and software offerings, including software licenses and SaaS. Updates and upgrades for the term software licenses are critical for our software to perform its intended commercial purpose because of the continuous need for our software to secure our customers' network environments against frequent threats. Therefore, security software licenses are generally represented by a single distinct performance obligation with revenue recognized ratably over the contract term. Our hardware and perpetual software in this category are distinct performance obligations where revenue is recognized upfront upon transfer of control. SaaS arrangements in this category have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term.

Collaboration consists of our Meetings, Collaboration Devices, Calling, Contact Center and Communication Platform as a Service (CPaaS) offerings. These products consist primarily of software offerings, including software licenses and SaaS, as well as hardware. Our perpetual software and hardware in this category are distinct performance obligations where revenue is recognized upfront upon transfer of control. Term software licenses are multiple performance obligations where the term license is recognized upfront upon transfer of control with the associated software maintenance revenue recognized ratably over the contract term. SaaS arrangements in this category have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term.

Observability consists of our full stack observability offerings. These products consist primarily of software offerings, including software licenses and SaaS. Our perpetual software in this category are distinct performance obligations where revenue is recognized upfront upon transfer of control. Term software licenses are multiple performance obligations where the term license is recognized upfront upon transfer of control with the associated software maintenance revenue recognized ratably over the contract term. SaaS arrangements in this category have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

In addition to our product offerings, we provide a broad range of service and support options for our customers, including technical support services and advanced services. Technical support services represent the majority of these offerings which are distinct performance obligations that are satisfied over time with revenue recognized ratably over the contract term. Advanced services are distinct performance obligations that are satisfied over time with revenue recognized as services are delivered.

The sales arrangements as discussed above are typically made pursuant to customer purchase orders based on master purchase or partner agreements. Cash is received based on our standard payment terms which is typically 30 days. We provide financing arrangements to customers for all of our hardware, software and service offerings. Refer to Note 9 for additional information. For these arrangements, cash is typically received over time.

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(b) Contract Balances

Accounts Receivable

Accounts receivable, net was $4.8 billion $4.9 billion as of October 28, 2023 January 27, 2024 compared to $5.9 billion as of July 29, 2023, as reported on the Consolidated Balance Sheets.

The allowances for credit loss for our accounts receivable are summarized as follows (in millions):

	Three Months Ended	
	October 28, 2023	October 29, 2022
Allowance for credit loss at beginning of period	$ 85	$ 83
Provisions (benefits)	2	11
Recoveries (write-offs), net	(5)	(6)
Allowance for credit loss at end of period	$ 82	$ 88

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

	Three Months Ended		Six Months Ended	
	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Allowance for credit loss at beginning of period	$ 82	$ 88	$ 85	$ 83
Provisions (benefits)	9	3	11	14
Recoveries (write-offs), net	(12)	(5)	(17)	(11)
Allowance for credit loss at end of period	$ 79	$ 86	$ 79	$ 86

Contract Assets and Liabilities

Gross contract assets by our internal risk ratings are summarized as follows (in millions):

		October 28, 2023	July 29, 2023		
	January 27, 2024			January 27, 2024	July 29, 2023
1 to 4	1 to 4	$ 650	$ 672		
5 to 6	5 to 6	1,015	954		
7 and Higher	7 and Higher	68	60		
Total	Total	$1,733	$1,686		

Contract assets consist of unbilled receivables and are recorded when revenue is recognized in advance of scheduled billings to our customers. These amounts are primarily related to software and service arrangements where transfer of control has occurred but we have not yet invoiced. As of October 28, 2023 and July 29, 2023, our Our contract assets for these unbilled receivables, net of allowances, were $1.7 $1.8 billion as of January 27, 2024 and $1.6 billion respectively, as of July 29, 2023, and were included in other current assets and other assets.

Contract liabilities consist of deferred revenue. Deferred revenue was $25.7 billion $25.8 billion as of October 28, 2023 January 27, 2024 compared to $25.6 billion as of July 29, 2023. We recognized approximately $4.7 $3.8 billion and $8.4 billion of revenue during the second quarter and first quarter six months of fiscal 2024 that was included in the deferred revenue balance at July 29, 2023.

(c) Capitalized Contract Acquisition Costs

We capitalize direct and incremental costs incurred to acquire contracts, primarily sales commissions, for which the associated revenue is expected to be recognized in future periods. We incur these costs in connection with both initial contracts and renewals. These costs are initially deferred and typically amortized over the term of the customer contract which corresponds to the period of benefit. Capitalized contract acquisition costs were $1.2 billion and $1.1 billion as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively, and were included in other current assets and other assets. The amortization expense associated with these costs was $158 $166 million and $176 $324 million for the second quarter and first quarter six months fiscal 2024, respectively, and $201 million and $377 million for the corresponding periods of fiscal 2024 and 2023, respectively, and was included in sales and marketing expenses.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

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4. Acquisitions and Divestitures

A summary of the allocation of the total purchase consideration of our completed acquisitions during the first quarter six months of fiscal 2024 is presented as follows (in millions):

	Purchase Consideration	Net Tangible Assets Acquired (Liabilities Assumed)	Purchased Intangible Assets	Goodwill
Total acquisitions	$ 896	$ (73)	$ 354	$ 615

	Purchase Consideration	Net Tangible Assets Acquired (Liabilities Assumed)	Purchased Intangible Assets	Goodwill
Total acquisitions	$ 896	$ (50)	$ 354	$ 592

The total purchase consideration related to our acquisitions completed during the first quarter six months of fiscal 2024 consisted primarily of cash consideration. The total cash and cash equivalents acquired from these acquisitions was approximately $16 $17 million. Total transaction costs related to acquisition and divestiture activities were $31 million $51 million and $2 $3 million for the first quarter six months of fiscal 2024 and 2023, respectively. These transaction costs were expensed as incurred in general and administrative expenses ("G&A") in the Consolidated Statements of Operations.

The purchase price allocation for acquisitions completed during recent periods is preliminary and subject to revision as additional information about fair value of assets and liabilities becomes available. Additional information that existed as of the acquisition date but at that time was unknown to us may become known during the remainder of the measurement period, a period not to exceed 12 months from the acquisition date.

The goodwill generated from acquisitions completed during the first quarter six months of fiscal 2024 is primarily related to expected synergies. The goodwill is generally not deductible for income tax purposes.

The Consolidated Financial Statements include the operating results of each acquisition from the date of acquisition. Pro forma results of operations and the revenue and net income subsequent to the acquisition date for the acquisitions completed during the first quarter six months of fiscal 2024 have not been presented because the effects of the acquisitions were not material to our financial results.

Intent to Acquire Splunk On September 21, 2023, we announced our intent to acquire Splunk Inc. ("Splunk"), a public cybersecurity and observability company. Under the terms of the agreement, we have agreed to pay $157 per share in cash, representing approximately $28 billion in equity value. The acquisition is expected to close by late in the end of first quarter or early in the third second quarter of calendar year 2024, subject to regulatory approval and other customary closing conditions, including approval by Splunk shareholders. conditions. We anticipate this transaction will be financed with a combination of cash and debt.

5. Goodwill and Purchased Intangible Assets

(a) Goodwill

The following table presents the goodwill allocated to our reportable segments as of October 28, 2023 January 27, 2024 and during the first quarter six months of fiscal 2024 (in millions):

		Balance at July 29, 2023	Acquisitions	Foreign Currency Translation and Other	Balance at October 28, 2023			
		Balance at July 29, 2023						
		Balance at July 29, 2023						
		Balance at July 29, 2023				Acquisitions	Foreign Currency Translation and Other	Balance at January 27, 2024
Americas	Americas	$24,035	$ 381	$ (156)	$24,260			
EMEA	EMEA	9,118	126	(59)	9,185			

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APJC	APJC	5,382	108	(35)	5,455
Total	Total	$38,535	$ 615	$ (250)	$38,900

(b) Purchased Intangible Assets

The following table presents details of our intangible assets acquired through acquisitions completed during the first quarter six months of fiscal 2024 (in millions, except years):

	FINITE LIVES						INDEFINITE LIVES	
	TECHNOLOGY		CUSTOMER RELATIONSHIPS		OTHER		IPR&D	TOTAL
	Weighted-Average Useful Life (in Years)	Amount	Weighted-Average Useful Life (in Years)	Amount	Weighted-Average Useful Life (in Years)	Amount	Amount	Amount
Total acquisitions	4.8	$ 280	4.8	$ 58	1.0	$ 2	$ 14	$ 354

The following tables present details of our purchased intangible assets (in millions):

October 28, 2023		Gross	Accumulated Amortization	Net
January 27, 2024	January 27, 2024	Gross	Accumulated Amortization	Net
Purchased intangible assets with finite lives:	Purchased intangible assets with finite lives:			
Technology				
Technology				
Technology	Technology	$3,051	$ (1,654)	$1,397
Customer relationships	Customer relationships	1,186	(870)	316
Other	Other	42	(25)	17
Total purchased intangible assets with finite lives	Total purchased intangible assets with finite lives	4,279	(2,549)	1,730
In-process research and development, with indefinite lives	In-process research and development, with indefinite lives	184	—	184
Total	Total	$4,463	$ (2,549)	$1,914

July 29, 2023	Gross	Accumulated Amortization	Net
Purchased intangible assets with finite lives:			
Technology	$ 2,998	$ (1,691)	$ 1,307
Customer relationships	1,228	(905)	323
Other	40	(22)	18
Total purchased intangible assets with finite lives	4,266	(2,618)	1,648
In-process research and development, with indefinite lives	170	—	170
Total	$ 4,436	$ (2,618)	$ 1,818

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

Purchased intangible assets include intangible assets acquired through acquisitions as well as through direct purchases or licenses.

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The following table presents the amortization of purchased intangible assets, including impairment charges (in millions):

		Three Months Ended		Three Months Ended		Three Months Ended		Six Months Ended
		October 28, 2023	October 29, 2022	January 27, 2024	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Amortization of purchased intangible assets:	Amortization of purchased intangible assets:							
Cost of sales								
Cost of sales								
Cost of sales	Cost of sales	$ 186	$ 158					
Operating expenses	Operating expenses	67	71					
Total	Total	$ 253	$ 229					

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

The estimated future amortization expense of purchased intangible assets with finite lives as of October 28, 2023 January 27, 2024 is as follows (in millions):

Fiscal Year	Fiscal Year	Amount	Fiscal Year	Amount
2024 (remaining nine months)		$ 684		
2024 (remaining six months)				
2025	2025	$ 573		
2026	2026	$ 225		
2027	2027	$ 140		
2028	2028	$ 98		
Thereafter	Thereafter	$ 10		

6. Restructuring and Other Charges

In the third quarter of fiscal 2024, we initiated a restructuring plan (the “Fiscal 2024 Plan”) in order to realign the organization and enable further investment in key priority areas. The Fiscal 2024 Plan will impact approximately 5% of our global workforce, with estimated pretax charges of approximately $800 million. These aggregate pretax charges will be primarily cash-based and consist of severance and other one-time termination benefits and other costs. We expect this plan to be substantially completed during the first half of fiscal 2025.

In the second quarter of fiscal 2023, we announced a restructuring plan (the “Fiscal 2023 Plan”) in order to rebalance the organization and enable further investment in key priority areas, of which approximately 5% of the global workforce would be impacted. This rebalancing includes talent movement options and restructuring. Additionally, we began optimizing our real estate portfolio, aligned to the broader hybrid work strategy. areas. In connection with the Fiscal 2023 Plan, we incurred charges of $123 $12 million and $135 million for the second quarter and first quarter six months of fiscal 2024, respectively. We incurred charges of $243 million for the second quarter and have incurred first six months of fiscal 2023. Total cumulative charges of $658 $670 million have been recognized to date. These aggregate pretax charges are were primarily cash-based and consist of severance and other one-time termination benefits, real estate-related charges, and other costs. We have substantially completed the Fiscal 2023 Plan in the first second quarter of fiscal 2024.

The following table summarizes the activities related to the Fiscal 2023 Plan (in millions):

	FISCAL 2023 PLAN		
	Employee Severance	Other	Total

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	FISCAL 2023 PLAN		
	Employee Severance		
	Employee Severance		
	Employee Severance	Other	Total
Liability as of July 29, 2023	$ 166	$44	$210
Charges	103	20	123
Cash payments	(99)	(6)	(105)
Non-cash items	(2)	(11)	(13)
Liability as of October 28, 2023	$ 168	$47	$215
Liability as of January 27, 2024			

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

7. Balance Sheet and Other Details

The following tables provide details of selected balance sheet and other items (in millions, except percentages):

Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents

	October 28, 2023	July 29, 2023	
	January 27, 2024	January 27, 2024	July 29, 2023
Cash and cash equivalents	$ 9,602	$10,123	
Restricted cash and restricted cash equivalents included in other current assets	378	191	
Restricted cash and restricted cash equivalents included in other assets	1,125	1,313	
Total	$ 11,105	$11,627	

Our restricted cash and restricted cash equivalents are funds primarily related to contractual obligations with suppliers.

Inventories

	October 28, 2023	July 29, 2023	
	January 27, 2024	January 27, 2024	July 29, 2023

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Raw materials	Raw materials	$	1,854	$1,685
Work in process	Work in process		194	264
Finished goods	Finished goods		1,093	1,493
Service-related spares	Service-related spares		188	186
Demonstration systems	Demonstration systems		13	16
Total	Total	$	3,342	$3,644

Property and Equipment, Net

			October 28, 2023	July 29, 2023		
			January 27, 2024		January 27, 2024	July 29, 2023
Gross property and equipment:	Gross property and equipment:					
Land, buildings, and building and leasehold improvements						
Land, buildings, and building and leasehold improvements						
Land, buildings, and building and leasehold improvements	Land, buildings, and building and leasehold improvements	$	4,194	$4,229		
Computer equipment and related software	Computer equipment and related software		682	744		
Production, engineering, and other equipment	Production, engineering, and other equipment		4,465	4,611		
Operating lease assets	Operating lease assets		123	135		
Furniture, fixtures and other	Furniture, fixtures and other		338	339		
Total gross property and equipment	Total gross property and equipment		9,802	10,058		
Less: accumulated depreciation and amortization	Less: accumulated depreciation and amortization		(7,798)	(7,973)		
Total	Total	$	2,004	$2,085		

Remaining Performance Obligations (RPO)

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			October 28, 2023	July 29, 2023		
		January 27, 2024			January 27, 2024	July 29, 2023
Product	Product	$	16,011	$15,802		
Service	Service		18,742	19,066		
Total	Total	$	34,753	$34,868		
Short-term RPO	Short-term RPO	$	17,617	$17,910		
Short-term RPO						
Short-term RPO						
Long-term RPO	Long-term RPO		17,136	16,958		
Total	Total	$	34,753	$34,868		
Amount to be recognized as revenue over the next 12 months	Amount to be recognized as revenue over the next 12 months		51 %	51 %		
Amount to be recognized as revenue over the next 12 months						
Amount to be recognized as revenue over the next 12 months					50 %	51 %
Deferred revenue						
Deferred revenue						
Deferred revenue	Deferred revenue	$	25,659	$25,550		
Unbilled contract revenue	Unbilled contract revenue		9,094	9,318		
Total	Total	$	34,753	$34,868		

Unbilled contract revenue represents noncancelable contracts for which we have not invoiced, have an obligation to perform, and revenue has not yet been recognized in the financial statements.

Deferred Revenue

			October 28, 2023	July 29, 2023		
		January 27, 2024			January 27, 2024	July 29, 2023
Product	Product	$	11,689	$11,505		
Service	Service		13,970	14,045		
Total	Total	$	25,659	$25,550		
Reported as:	Reported as:					
Current	Current	$	13,812	$13,908		
Current						
Current						
Noncurrent	Noncurrent		11,847	11,642		
Total	Total	$	25,659	$25,550		

Transition Tax Payable

Our income tax payable associated with the one-time U.S. transition tax on accumulated earnings for foreign subsidiaries as a result of the Tax Cuts and Jobs Act is as follows (in millions):

	October 28, 2023	July 29, 2023

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		January 27, 2024		January 27, 2024	July 29, 2023
Current	Current	$ 1,364	$1,364		
Noncurrent	Noncurrent	4,092	4,092		
Total	Total	$ 5,456	$5,456		

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

8. Leases

(a) Lesseee Arrangements

The following table presents our operating lease balances (in millions):

		Balance Sheet Line Item	October 28, 2023	July 29, 2023			
	Balance Sheet Line Item				Balance Sheet Line Item	January 27, 2024	July 29, 2023
Operating lease right-of-use assets	Operating lease right-of-use assets	Other assets	$ 997	$ 971			
Operating lease liabilities	Operating lease liabilities	Other current liabilities	$ 302	$ 313			
Operating lease liabilities	Operating lease liabilities	Other long-term liabilities	741	707			
Operating lease liabilities							
Operating lease liabilities							
Total operating lease liabilities	Total operating lease liabilities		$1,043	$1,020			

The components of our lease expenses were as follows (in millions):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended			Three Months Ended		Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Operating lease expense	Operating lease expense	$ 100	$ 96				
Short-term lease expense	Short-term lease expense	11	17				
Variable lease expense	Variable lease expense	56	58				

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Total lease expense	Total lease expense	$ 167	$ 171

Supplemental information related to our operating leases is as follows (in millions):

		Three Months Ended	
		October 28, 2023	October 29, 2022
	Six Months Ended	January 27, 2024	January 28, 2023
	January 27, 2024		
Cash paid for amounts included in the measurement of lease liabilities — operating cash flows	Cash paid for amounts included in the measurement of lease liabilities — operating cash flows	$ 88	$ 96
Right-of-use assets obtained in exchange for operating leases liabilities	Right-of-use assets obtained in exchange for operating leases liabilities	$ 126	$ 35

The weighted-average lease term was 4.8 years and 4.6 years as of October 28, 2023 each of January 27, 2024 and July 29, 2023, respectively. . The weighted-average discount rate was 3.5% 3.7% and 3.1% as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively.

The maturities of our operating leases (undiscounted) as of October 28, 2023 January 27, 2024 are as follows (in millions):

Fiscal Year	Fiscal Year	Amount	Fiscal Year	Amount
2024 (remaining nine months)		$ 258		
2024 (remaining six months)				
2025	2025	278		
2026	2026	189		
2027	2027	116		
2028	2028	88		
Thereafter	Thereafter	227		
Total lease payments	Total lease payments	1,156		
Less interest	Less interest	(113)		
Total	Total	$1,043		

(b) Lessor Arrangements

Our leases primarily represent sales-type leases with terms of four years on average. We provide leasing of our equipment and complementary third-party products primarily through our channel partners and distributors, for which the income arising from these leases is recognized through interest income. Interest income was $14 $16 million and $30 million for the second quarter and the first six months of fiscal 2024, respectively, and $12 million and $24 million for the first quarter corresponding periods of fiscal 2024 and 2023, respectively, and was included in interest income in the Consolidated Statement of Operations. The net investment of our lease receivables is measured at the commencement date as the gross lease receivable, residual value less unearned income and allowance for credit loss. For additional information, see Note 9.

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Future minimum lease payments on our lease receivables as of October 28, 2023 January 27, 2024 are summarized as follows (in millions):

Fiscal Year	Fiscal Year	Amount	Fiscal Year	Amount
2024 (remaining nine months)		$ 433		
2024 (remaining six months)				
2025	2025	166		
2026	2026	182		
2027	2027	160		
2028	2028	126		
Thereafter	Thereafter	45		
Total	Total	1,112		
Less: Present value of lease payments	Less: Present value of lease payments	(1,015)		
Unearned income	Unearned income	$ 97		

Actual cash collections may differ from the contractual maturities due to early customer buyouts, refinancings, or defaults.

We provide financing of certain equipment through operating leases, and the amounts are included in property and equipment in the Consolidated Balance Sheets. Amounts relating to equipment on operating lease assets held by us and the associated accumulated depreciation are summarized as follows (in millions):

		October 28, 2023	July 29, 2023		
	January 27, 2024			January 27, 2024	July 29, 2023
Operating lease assets	Operating lease assets	$ 123	$135		
Accumulated depreciation	Accumulated depreciation	(72)	(78)		
Operating lease assets, net	Operating lease assets, net	$ 51	$ 57		

Our operating lease income was $16 $15 million and $21 $31 million for the second quarter and first quarter six months of fiscal 2024, respectively, and $18 million and $39 million for the corresponding periods of fiscal 2023, respectively, and was included in product revenue in the Consolidated Statements of Operations.

Minimum future rentals on noncancelable operating leases as of October 28, 2023 January 27, 2024 are summarized as follows (in millions):

Fiscal Year	Fiscal Year	Amount	Fiscal Year	Amount
2024 (remaining nine months)		$ 18		
2024 (remaining six months)				
2025	2025	12		
2026	2026	6		
2027				
Total	Total	$ 36		

9. Financing Receivables

(a) Financing Receivables

Financing receivables primarily consist of loan receivables and lease receivables. Loan receivables represent financing arrangements related to the sale of our hardware, software, and services (including technical support and advanced services), and also may include additional funding for other costs associated with network installation and integration of our products and services. Loan receivables have terms of one year to three years on average. Lease receivables represent sales-type leases resulting from the sale of Cisco's and

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complementary third-party products and are typically collateralized by a security interest in the underlying assets. Lease receivables consist of arrangements with terms of four years on average.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

A summary of our financing receivables is presented as follows (in millions):

	October 28, 2023	Loan Receivables	Lease Receivables	Total
January 27, 2024	January 27, 2024	Loan Receivables	Lease Receivables	Total
Gross	Gross	$ 5,729	$ 1,112	$6,841
Residual value	Residual value	—	68	68
Unearned income	Unearned income	—	(97)	(97)
Allowance for credit loss	Allowance for credit loss	(58)	(16)	(74)
Total, net	Total, net	$ 5,671	$ 1,067	$6,738
Reported as:	Reported as:			
Current	Current	$ 2,986	$ 428	$3,414
Current				
Current				
Noncurrent	Noncurrent	2,685	639	3,324
Total, net	Total, net	$ 5,671	$ 1,067	$6,738

July 29, 2023	Loan Receivables	Lease Receivables	Total
Gross	$ 5,910	$ 1,015	$ 6,925
Residual value	—	70	70
Unearned income	—	(88)	(88)
Allowance for credit loss	(53)	(19)	(72)
Total, net	$ 5,857	$ 978	$ 6,835
Reported as:			
Current	$ 2,988	$ 364	$ 3,352
Noncurrent	2,869	614	3,483
Total, net	$ 5,857	$ 978	$ 6,835

(b) Credit Quality of Financing Receivables

The tables below present our gross financing receivables, excluding residual value, less unearned income, categorized by our internal credit risk rating by period of origination (in millions):

							Three Months Ended									
October 28, 2023				Fiscal Year												
January 27, 2024																
Internal Credit Risk Rating																
Internal Credit Risk Rating																
Internal Credit Risk Rating	Internal Credit Risk Rating	Prior	July 25, 2020	July 31, 2021	July 30, 2022	July 29, 2023	October 28, 2023	Total	Prior	July 25, 2020	July 31, 2021	July 30, 2022	July 29, 2023	January 27, 2024	Total	
Loan Receivables:	Loan Receivables:															
1 to 4																
1 to 4																

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1 to 4	1 to 4	$40	$205	$637	$ 910	$1,371	$ 543	$3,706
5 to 6	5 to 6	9	109	193	327	733	513	1,884
7 and Higher	7 and Higher	7	10	15	91	15	1	139
Total Loan Receivables	Total Loan Receivables	$56	$324	$845	$1,328	$2,119	$1,057	$5,729
Lease Receivables:	Lease Receivables:							
1 to 4	1 to 4	$13	$ 46	$ 99	$ 82	$ 250	$ 111	$ 601
1 to 4								
1 to 4								
5 to 6	5 to 6	9	38	51	85	183	30	396
7 and Higher	7 and Higher	1	2	3	5	5	2	18
Total Lease Receivables	Total Lease Receivables	$23	$ 86	$153	$ 172	$ 438	$ 143	$1,015
Total	Total	$79	$410	$998	$1,500	$2,557	$1,200	$6,744

July 29, 2023		Fiscal Year					
Internal Credit Risk Rating	Prior	July 27, 2019	July 25, 2020	July 31, 2021	July 30, 2022	July 29, 2023	Total
Loan Receivables:							
1 to 4	$ 10	$ 53	$ 251	$ 791	$ 1,077	$ 1,784	$ 3,966
5 to 6	3	14	131	287	465	936	1,836
7 and Higher	1	7	15	17	29	39	108
Total Loan Receivables	$ 14	$ 74	$ 397	$ 1,095	$ 1,571	$ 2,759	$ 5,910
Lease Receivables:							
1 to 4	$ 2	$ 20	$ 57	$ 111	$ 84	$ 235	$ 509
5 to 6	2	13	44	58	87	191	395
7 and Higher	—	1	2	4	5	11	23
Total Lease Receivables	$ 4	$ 34	$ 103	$ 173	$ 176	$ 437	$ 927
Total	$ 18	$ 108	$ 500	$ 1,268	$ 1,747	$ 3,196	$ 6,837

The following tables present the aging analysis of gross receivables as of October 28, 2023 January 27, 2024 and July 29, 2023 (in millions):

October 28, 2023		DAYS PAST DUE (INCLUDES BILLED AND UNBILLED)								
		31-60	61-90	91+	Total Past Due	Current	Total	120+ Still Accruing	Nonaccrual Financing Receivables	Impaired Financing Receivables
January 27, 2024		DAYS PAST DUE (INCLUDES BILLED AND UNBILLED)								
January 27, 2024										
January 27, 2024		31-60	61-90	91+	Total Past Due	Current	Total	120+ Still Accruing	Nonaccrual Financing Receivables	Impaired Financing Receivables
Loan receivables	Loan receivables	$73	$58	$45	$ 176	$5,553	$5,729	$ 16	$ 12	$ 12
Lease receivables	Lease receivables	18	12	15	45	970	1,015	5	2	2
Total	Total	$91	$70	$60	$ 221	$6,523	$6,744	$ 21	$ 14	$ 14

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July 29, 2023	DAYS PAST DUE (INCLUDES BILLED AND UNBILLED) 31-60	61-90	91+	Total Past Due	Current	Total	120+ Still Accruing	Nonaccrual Financing Receivables	Impaired Financing Receivables
Loan receivables	$ 47	$ 20	$ 37	$ 104	$ 5,806	$ 5,910	$ 17	$ 12	$ 12
Lease receivables	16	4	23	43	884	927	6	3	3
Total	$ 63	$ 24	$ 60	$ 147	$ 6,690	$ 6,837	$ 23	$ 15	$ 15

Past due financing receivables are those that are 31 days or more past due according to their contractual payment terms. The data in the preceding tables is presented by contract, and the aging classification of each contract is based on the oldest outstanding receivable, and therefore past due amounts also include unbilled and current receivables within the same contract.

(c) Allowance for Credit Loss Rollforward

The allowances for credit loss and the related financing receivables are summarized as follows (in millions):

Three Months Ended October 28, 2023	CREDIT LOSS ALLOWANCES Loan Receivables	Lease Receivables	Total
Allowance for credit loss as of July 29, 2023	$ 53	$ 19	$72
Provisions (benefits)	5	(3)	2
Allowance for credit loss as of October 28, 2023	$ 58	$ 16	$74

Three Months Ended January 27, 2024	Loan Receivables	Three Months Ended January 27, 2024	CREDIT LOSS ALLOWANCES Loan Receivables	Lease Receivables	Total
Allowance for credit loss as of October 28, 2023					
Provisions (benefits)	Provisions (benefits)				
Recoveries (write-offs), net					
Allowance for credit loss as of January 27, 2024					

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

Three Months Ended October 29, 2022	CREDIT LOSS ALLOWANCES Loan Receivables	Lease Receivables	Total

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Allowance for credit loss as of July 30, 2022	$ 103	$ 23	$126

Three Months Ended January 28, 2023	Three Months Ended January 28, 2023	CREDIT LOSS ALLOWANCES		
	Loan Receivables	Loan Receivables	Lease Receivables	Total
Allowance for credit loss as of October 29, 2022				
Provisions (benefits)	Provisions (benefits)	(1)	(3)	(4)
Other	Other	(1)	(1)	(2)
	Allowance for credit loss as of October 29, 2022	$ 101	$ 19	$120
Allowance for credit loss as of January 28, 2023				

Six Months Ended January 27, 2024	CREDIT LOSS ALLOWANCES		
	Loan Receivables	Lease Receivables	Total
Allowance for credit loss as of July 29, 2023	$ 53	$ 19	$ 72
Provisions (benefits)	4	(3)	1
Recoveries (write-offs), net	(4)	—	(4)
Allowance for credit loss as of January 27, 2024	$ 53	$ 16	$ 69

Six Months Ended January 28, 2023	CREDIT LOSS ALLOWANCES		
	Loan Receivables	Lease Receivables	Total
Allowance for credit loss as of July 30, 2022	$ 103	$ 23	$ 126
Provisions (benefits)	(4)	(4)	(8)
Other	(5)	—	(5)
Allowance for credit loss as of January 28, 2023	$ 94	$ 19	$ 113

10. Investments

(a) Summary of Available-for-Sale Debt Investments

The following tables summarize our available-for-sale debt investments (in millions):

October 28, 2023		Amortized Cost	Gross Unrealized Gains	Gross Unrealized and Credit Losses	Fair Value
January 27, 2024	January 27, 2024	Amortized Cost	Gross Unrealized Gains	Gross Unrealized and Credit Losses	Fair Value
U.S. government securities	U.S. government securities	$ 2,596	$ —	$ (72)	$ 2,524

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U.S. government agency securities	U.S. government agency securities	421	—	(6)	415
Non-U.S. government and agency securities	Non-U.S. government and agency securities	351	—	—	351
Corporate debt securities	Corporate debt securities	6,862	1	(363)	6,500
U.S. agency mortgage-backed securities	U.S. agency mortgage-backed securities	2,431	—	(318)	2,113
Commercial paper	Commercial paper	943	—	—	943
Certificates of deposit	Certificates of deposit	666	—	—	666
Total	Total	$14,270	$ 1	$ (759)	$13,512

July 29, 2023	Amortized Cost	Gross Unrealized Gains	Gross Unrealized and Credit Losses	Fair Value
U.S. government securities	$ 3,587	$ 1	$ (62)	$ 3,526
U.S. government agency securities	428	—	(5)	423
Non-U.S. government and agency securities	364	—	(1)	363
Corporate debt securities	7,238	3	(327)	6,914
U.S. agency mortgage-backed securities	2,421	14	(230)	2,205
Commercial paper	1,484	—	—	1,484
Certificates of deposit	677	—	—	677
Total	$ 16,199	$ 18	$ (625)	$ 15,592

The following table presents the gross realized gains and gross realized losses related to available-for-sale debt investments (in millions):

	Three Months Ended	
	October 28, 2023	October 29, 2022
Gross realized gains	$ —	$ —
Gross realized losses	(20)	(6)
Total	$ (20)	$ (6)

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

	Three Months Ended		Six Months Ended	
	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Gross realized gains	$ 5	$ 3	$ 5	$ 3
Gross realized losses	(28)	(6)	(48)	(12)
Total	$ (23)	$ (3)	$ (43)	$ (9)

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The following tables present the breakdown of the available-for-sale debt investments with gross unrealized losses and the duration that those losses had been unrealized at October 28, 2023 January 27, 2024 and July 29, 2023 (in millions):

		UNREALIZED LOSSES LESS THAN 12 MONTHS		UNREALIZED LOSSES 12 MONTHS OR GREATER		TOTAL	
October 28, 2023		Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
January 27, 2024							
U.S. government securities	U.S. government securities	$ 1,844	$ (38)	$ 680	$ (34)	$ 2,524	$ (72)
U.S. government agency securities	U.S. government agency securities	377	(3)	38	(3)	415	(6)
Non-U.S. government and agency securities	Non-U.S. government and agency securities	324	—	—	—	324	—
Corporate debt securities	Corporate debt securities	1,679	(29)	4,275	(304)	5,954	(333)
U.S. agency mortgage-backed securities	U.S. agency mortgage-backed securities	798	(45)	1,315	(273)	2,113	(318)
Commercial paper	Commercial paper	10	—	—	—	10	—
Certificates of deposit		10	—	—	—	10	—
Total	Total	$ 5,042	$ (115)	$ 6,308	$ (614)	$11,350	$ (729)

	UNREALIZED LOSSES LESS THAN 12 MONTHS		UNREALIZED LOSSES 12 MONTHS OR GREATER	
January 27, 2024	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

	UNREALIZED LOSSES LESS THAN 12 MONTHS		UNREALIZED LOSSES 12 MONTHS OR GREATER		TOTAL	
July 29, 2023	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
U.S. government securities	$ 2,394	$ (26)	$ 931	$ (36)	$ 3,325	$ (62)
U.S. government agency securities	343	(2)	72	(3)	415	(5)
Non-U.S. government and agency securities	363	(1)	—	—	363	(1)
Corporate debt securities	1,736	(22)	4,315	(275)	6,051	(297)
U.S. agency mortgage-backed securities	658	(13)	1,438	(217)	2,096	(230)
Commercial paper	97	—	—	—	97	—
Certificates of deposit	2	—	—	—	2	—
Total	$ 5,593	$ (64)	$ 6,756	$ (531)	$ 12,349	$ (595)

The following table summarizes the maturities of our available-for-sale debt investments as of October 28, 2023 January 27, 2024 (in millions):

	Amortized Cost	Fair Value

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	Amortized Cost	Amortized Cost	Fair Value
Within 1 year	Within 1 year	$ 4,201	$ 4,152
After 1 year through 5 years	After 1 year through 5 years	7,627	7,236
After 5 years through 10 years		9	9
After 10 years		2	2
Mortgage-backed securities with no single maturity	Mortgage-backed securities with no single maturity	2,431	2,113
Total	Total	$14,270	$13,512

Actual maturities may differ from the contractual maturities because borrowers may have the right to call or prepay certain obligations.

(b) Summary of Equity Investments

We held marketable equity securities of $409 million $426 million and $431 million as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively. We recognized a net unrealized loss gain of $42 $55 million and $20 $17 million during the second quarter and first quarter six months of fiscal 2024, respectively, and a net unrealized gain of $11 million and a net unrealized loss of $9 million during the corresponding periods of fiscal 2023, respectively, on our marketable securities still held as of the reporting date. Our net adjustments to non-marketable equity securities measured using the measurement alternative still held was a net loss of $12 $134 million for the second quarter and first quarter six months of fiscal 2023. These adjustments were not material 2024, and a net gain of $3 million and a net loss of $8 million for the first quarter corresponding periods of fiscal 2024. 2023, respectively. We held equity interests in certain private equity funds of $0.8 billion and $0.9 billion as of each of October 28, 2023 January 27, 2024 and July 29, 2023, respectively, which are accounted for under the NAV practical expedient.

In the ordinary course of business, we have investments in privately held companies and provide financing to certain customers. These privately held companies and customers are evaluated for consolidation under the variable interest or voting interest entity models. We evaluate on an ongoing basis our investments in these privately held companies and our customer financings, and have determined that as of October 28, 2023 January 27, 2024, there were no additional significant variable interest or voting interest entities required to be consolidated in our Consolidated Financial Statements.

The carrying value of our investments in privately held companies was $1.6 billion and $1.8 billion as of each of October 28, 2023 January 27, 2024 and July 29, 2023., respectively. Of the total carrying value of our investments in privately held companies as of October 28, 2023 January 27, 2024, $0.9 billion of such investments are considered to be in variable interest entities which are unconsolidated. As of October 28, 2023 January 27, 2024, we have total funding commitments of $0.3 billion $0.2 billion related to privately held investments, some of which may be based on the achievement of certain agreed-upon milestones or are required to be funded on demand. investments. The carrying value of these investments and the additional funding commitments, collectively, represent our maximum exposure related to privately held investments.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

11. Fair Value

(a) Assets and Liabilities Measured at Fair Value on a Recurring Basis

Assets and liabilities measured at fair value on a recurring basis were as follows (in millions):

	OCTOBER 28, 2023			JULY 29, 2023			JANUARY 27, 2024			JULY 29, 2023		
	FAIR VALUE MEASUREMENTS			FAIR VALUE MEASUREMENTS								
							FAIR VALUE MEASUREMENTS			FAIR VALUE MEASUREMENTS		
	Level 1	Level 2	Total Balance	Level 1	Level 2	Total Balance	Level 1	Level 2	Total Balance	Level 1	Level 2	Total Balance

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Assets:	Assets:						
Cash equivalents:	Cash equivalents:						
Cash equivalents:							
Cash equivalents:							
Money market funds							
Money market funds							
Money market funds	Money market funds	$6,650	$ —	$ 6,650	$6,496	$ —	$ 6,496
Commercial paper	Commercial paper	—	738	738	—	1,090	1,090
Certificates of deposit	Certificates of deposit	—	12	12	—	47	47
Corporate debt securities	Corporate debt securities	—	16	16	—	25	25
Non-U.S. government and agency securities							
Available-for-sale debt investments:	Available-for-sale debt investments:						
U.S. government securities							
U.S. government securities							
U.S. government securities	U.S. government securities	—	2,524	2,524	—	3,526	3,526
U.S. government agency securities	U.S. government agency securities	—	415	415	—	423	423
Non-U.S. government and agency securities	Non-U.S. government and agency securities	—	351	351	—	363	363
Corporate debt securities	Corporate debt securities	—	6,500	6,500	—	6,914	6,914
U.S. agency mortgage-backed securities	U.S. agency mortgage-backed securities	—	2,113	2,113	—	2,205	2,205
Commercial paper	Commercial paper	—	943	943	—	1,484	1,484
Certificates of deposit	Certificates of deposit	—	666	666	—	677	677
Equity investments:	Equity investments:						
Marketable equity securities	Marketable equity securities	409	—	409	431	—	431
Marketable equity securities							
Marketable equity securities							

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Other current assets:	Other current assets:						
Money market funds	Money market funds	375	—	375	188	—	188
Money market funds							
Money market funds							
Other assets:	Other assets:						
Money market funds							
Money market funds							
Money market funds	Money market funds	1,125	—	1,125	1,313	—	1,313
Derivative assets	Derivative assets	—	58	58	—	32	32
Total	Total	$8,559	$14,336	$22,895	$8,428	$16,786	$25,214
Liabilities:	Liabilities:						
Derivative liabilities	Derivative liabilities	$ —	$ 92	$ 92	$ —	$ 75	$ 75
Derivative liabilities							
Derivative liabilities							
Total	Total	$ —	$ 92	$ 92	$ —	$ 75	$ 75

Level 1 marketable equity securities are determined by using quoted prices in active markets for identical assets. Level 2 available-for-sale debt investments are priced using quoted market prices for similar instruments or nonbinding market prices that are corroborated by observable market data. We use inputs such as actual trade data, benchmark yields, broker/dealer quotes, and other similar data, which are obtained from quoted market prices, independent pricing vendors, or other sources, to determine the ultimate fair value of these assets and liabilities. We use such pricing data as the primary input to make our assessments and determinations as to the ultimate valuation of our investment portfolio and have not made, during the periods presented, any material adjustments to such inputs. We are ultimately responsible for the financial statements and underlying estimates. Our derivative instruments are primarily classified as Level 2, as they are not actively traded and are valued using pricing models that use observable market inputs. We did not have any transfers between Level 1 and Level 2 fair value measurements during the periods presented.

(b) Assets Measured at Fair Value on a Nonrecurring Basis

Our non-marketable equity securities using the measurement alternative are adjusted to fair value on a non-recurring basis. Adjustments are made when observable transactions for identical or similar investments of the same issuer occur, or due to impairment. These securities are classified as Level 3 in the fair value hierarchy because we estimate the value based on valuation methods using the observable transaction price at the transaction date and other unobservable inputs such as volatility, rights, and obligations of the securities we hold.

(c) Other Fair Value Disclosures

The fair value of our short-term loan receivables approximates their carrying value due to their short duration. The aggregate carrying value of our long-term loan receivables as of October 28, 2023 January 27, 2024 and July 29, 2023 was $2.7 billion and $2.9 billion, respectively. The estimated fair value of our long-term loan receivables approximates their carrying value. We use unobservable inputs in determining discounted cash flows to estimate the fair value of our long-term loan receivables, and therefore they are categorized as Level 3.

As of October 28, 2023 January 27, 2024, the estimated fair value of our short-term debt approximates its carrying value due to the short maturities. As of October 28, 2023 January 27, 2024, the fair value of our senior notes was $7.5 billion $7.9 billion with a carrying amount of $7.7 billion. This compares to a fair value of $8.7 billion and a carrying amount of $8.4 billion as of July 29, 2023. The fair value of the senior notes was determined based on observable market prices in a less active market and was categorized as Level 2.

12. Borrowings

(a) Short-Term Debt

The following table summarizes our short-term debt (in millions, except percentages):

	October 28, 2023		July 29, 2023	
	Amount	Effective Rate	Amount	Effective Rate
Current portion of long-term debt	$ 990	6.33 %	$ 1,733	4.45 %

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	January 27, 2024		July 29, 2023	
	Amount	Effective Rate	Amount	Effective Rate
Current portion of long-term debt	$ 997	6.35 %	$ 1,733	4.45 %
Commercial paper	3,939	5.39 %	—	— %
Total	$ 4,936		$ 1,733	

We have a short-term debt financing program of up to $10.0 billion through the issuance ofEffective February 6, 2024, we increased our borrowing capacity under our existing commercial paper notes. program from$10.0 billion to $15.0 billion. We use the proceeds from the issuance of commercial paper notes for general corporate purposes. As of February 19, 2024, we had approximately $6.9 billion of commercial paper notes outstanding.

The effective rates for the short- and long-term debt include the interest on the notes, the accretion of the discount, the issuance costs, and, if applicable, adjustments related to hedging.

(b) Long-Term Debt

The following table summarizes our long-term debt (in millions, except percentages):

			October 28, 2023		July 29, 2023				January 27, 2024			July 29, 2023	
		Maturity Date	Amount	Effective Rate	Amount	Effective Rate		Maturity Date	Amount		Effective Rate	Amount	Effec
Senior notes:	Senior notes:												
Fixed-rate notes:	Fixed-rate notes:												
Fixed-rate notes:													
Fixed-rate notes:													
2.20%													
2.20%													
2.20%	2.20%	September 20, 2023	$ —	—	$ 750	2.27%		September 20, 2023	$—	—	—	$750	2.27%
3.625%	3.625%	March 4, 2024	1,000	6.33%	1,000	6.08%	3.625%	March 4, 2024	1,000	6.35%	6.35%	1,000	6.08%
3.50%	3.50%	June 15, 2025	500	6.63%	500	6.38%	3.50%	June 15, 2025	500	6.66%	6.66%	500	6.38%
2.95%	2.95%	February 28, 2026	750	3.01%	750	3.01%	2.95%	February 28, 2026	750	3.01%	3.01%	750	3.01%
2.50%	2.50%	September 20, 2026	1,500	2.55%	1,500	2.55%	2.50%	September 20, 2026	1,500	2.55%	2.55%	1,500	2.55%
5.90%	5.90%	February 15, 2039	2,000	6.11%	2,000	6.11%	5.90%	February 15, 2039	2,000	6.11%	6.11%	2,000	6.11%
5.50%	5.50%	January 15, 2040	2,000	5.67%	2,000	5.67%	5.50%	January 15, 2040	2,000	5.67%	5.67%	2,000	5.67%
Total	Total		7,750		8,500								
Unaccreted discount/issuance costs	Unaccreted discount/issuance costs		(68)		(68)								
Unaccreted discount/issuance costs													
Unaccreted discount/issuance costs													
Hedge accounting fair value adjustments	Hedge accounting fair value adjustments		(32)		(41)								

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Hedge accounting fair value adjustments			
Hedge accounting fair value adjustments			
Total			
Total			
Total	Total	$7,650	$8,391
Reported as:	Reported as:		
Reported as:			
Reported as:			
Current portion of long-term debt			
Current portion of long-term debt			
Current portion of long-term debt	Current portion of long-term debt	$ 990	$1,733
Long-term debt	Long-term debt	6,660	6,658
Long-term debt			
Long-term debt			
Total	Total	$7,650	$8,391
Total			
Total			

We have entered into interest rate swaps in prior periods with an aggregate notional amount of $1.5 billion$1.5 billion designated as fair value hedges of certain of our fixed-rate senior notes. These swaps convert the fixed interest rates of the fixed-rate notes to floating interest rates based on Secured Overnight Financing Rate (SOFR). The gains and losses related to changes in the fair value of the interest rate swaps substantially offset changes in the fair value of the hedged portion of the underlying debt that are attributable to the changes in market interest rates. For additional information, see Note 13.

Interest is payable semiannually on each class of the senior fixed-rate notes. Each of the senior fixed-rate notes is redeemable by us at any time, subject to a make-whole premium. The senior notes rank at par with the commercial paper notes that may be issued in the future pursuant to our short-term debt financing program, as discussed above under “(a) Short-Term Debt.” As of October 28, 2023 January 27, 2024, we were in compliance with all debt covenants.

As of October 28, 2023 January 27, 2024, future principal payments for long-term debt, including the current portion, are summarized as follows (in millions):

Fiscal Year	Fiscal Year	Amount	Fiscal Year	Amount
2024 (remaining nine months)		$1,000		
2024 (remaining six months)				
2025	2025	500		
2026	2026	750		
2027	2027	1,500		
Thereafter	Thereafter	4,000		
Total	Total	$7,750		

(c) Credit Facility

On May 13, 2021, we entered into a 5-year credit agreement with certain institutional lenders that provides for a $3.0 billion unsecured revolving credit facility that is scheduled to expire agreement, as amended on May 13, 2026 April 18, 2023. As of October 28, 2023, we were in compliance with the required interest coverage ratio and the other covenants, and we had not borrowed any funds under the credit agreement. On April 18, 2023 February 2, 2024, we entered into an amendment to amended and restated 5-year $5.0 billion unsecured revolving credit agreement. The interest rate for the credit agreement to replace the LIBOR index with Term SOFR.

Any advances under the 5-year credit agreement will accrue interest at rates that are equal to, is determined based on a formula using certain conditions, either (a) with respect to loans in U.S. dollars, (i) Term SOFR (plus a 0.10% credit spread adjustment) or (ii) the Base Rate (to be defined as the highest of (x) the Bank of America prime rate, (y) the Federal Funds rate plus 0.50% and (z) Term SOFR plus 1.0%), (b) with respect to loans in Euros, EURIBOR, (c) with respect to loans in Yen, TIBOR and (d) with respect to loans in Pounds Sterling, SONIA, plus a margin that is based on our senior debt credit ratings as published by Standard & Poor’s Financial Services, LLC and Moody’s Investors Service, Inc.,

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provided that in no event will the interest rate be less than 0.0%. We will pay a quarterly commitment fee during the term of the 5-year credit agreement which may vary depending on our senior debt credit ratings. In addition, the 5-year credit agreement incorporates certain sustainability-linked metrics. Specifically, our applicable interest rate and commitment fee are subject to upward or downward adjustments if we achieve, or fail to achieve, certain specified targets based on two key performance indicator metrics: (i) social impact and (ii) foam reduction. We may also, upon the agreement of either the then-existing lenders or additional lenders not currently parties to the agreement, increase the commitments under the credit facility by up to an additional $2.0 billion and, at our option, extend the maturity of the facility for an additional year up to two times. market rates. The credit agreement requires that we comply with certain covenants, including that we maintain an interest coverage ratio as defined (defined in the agreement as the ratio of consolidated EBITDA to consolidated interest expense) of not less than 3.0 to 1.0. As of January 27, 2024, we were in compliance with all associated covenants and we had not borrowed any funds under our credit agreement.

13. Derivative Instruments

(a) Summary of Derivative Instruments

We use derivative instruments primarily to manage exposures to foreign currency exchange rate, interest rate, and equity price risks. Our primary objective in holding derivatives is to reduce the volatility of earnings and cash flows associated with changes in foreign currency exchange rates, interest rates, and equity prices. Our derivatives expose us to credit risk to the extent that the counterparties may be unable to meet the terms of the agreement. We do, however, seek to mitigate such risks by limiting our counterparties to major financial institutions and requiring collateral in certain cases. In addition, the potential risk of loss with any one counterparty resulting from this type of credit risk is monitored. Management does not expect material losses as a result of defaults by counterparties.

The fair values of our derivative instruments and the line items on the Consolidated Balance Sheets to which they were recorded are summarized as follows (in millions):

	DERIVATIVE ASSETS			DERIVATIVE LIABILITIES		
	Balance Sheet Line Item	October 28, 2023	July 29, 2023	Balance Sheet Line Item	October 28, 2023	July 29, 2023
Derivatives designated as hedging instruments:						
Foreign currency derivatives	Other current assets	$ 38	$ 22	Other current liabilities	$ —	$ —
Foreign currency derivatives	Other assets	19	9	Other long-term liabilities	—	—
Interest rate derivatives	Other current assets	—	—	Other current liabilities	10	17
Interest rate derivatives	Other assets	—	—	Other long-term liabilities	22	24
Total		57	31		32	41
Derivatives not designated as hedging instruments:						
Foreign currency derivatives	Other current assets	1	1	Other current liabilities	41	25
Foreign currency derivatives	Other assets	—	—	Other long-term liabilities	19	9
Total		1	1		60	34
Total		$ 58	$ 32		$ 92	$ 75

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

	DERIVATIVE ASSETS			DERIVATIVE LIABILITIES		
	Balance Sheet Line Item	January 27, 2024	July 29, 2023	Balance Sheet Line Item	January 27, 2024	July 29, 2023
Derivatives designated as hedging instruments:						
Foreign currency derivatives	Other current assets	$ 35	$ 22	Other current liabilities	$ 2	$ —
Foreign currency derivatives	Other assets	13	9	Other long-term liabilities	—	—
Interest rate derivatives	Other current assets	—	—	Other current liabilities	3	17
Interest rate derivatives	Other assets	—	—	Other long-term liabilities	15	24
Total		48	31		20	41
Derivatives not designated as hedging instruments:						
Foreign currency derivatives	Other current assets	2	1	Other current liabilities	37	25
Foreign currency derivatives	Other assets	—	—	Other long-term liabilities	13	9

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Total		2	1	50	34
Total	$	50	$ 32	$ 70	$ 75

The following amounts were recorded on the Consolidated Balance Sheets related to cumulative basis adjustments for our fair value hedges (in millions):

Balance Sheet Line Item of Hedged Item	Balance Sheet Line Item of Hedged Item	CARRYING AMOUNT OF THE HEDGED ASSETS/(LIABILITIES) October 28, 2023	CARRYING AMOUNT OF THE HEDGED ASSETS/(LIABILITIES) July 29, 2023	CUMULATIVE AMOUNT OF FAIR VALUE HEDGING ADJUSTMENT INCLUDED IN THE CARRYING AMOUNT OF THE HEDGED ASSETS/LIABILITIES October 28, 2023	CUMULATIVE AMOUNT OF FAIR VALUE HEDGING ADJUSTMENT INCLUDED IN THE CARRYING AMOUNT OF THE HEDGED ASSETS/LIABILITIES July 29, 2023	Balance Sheet Line Item of Hedged Item	CARRYING AMOUNT OF THE HEDGED ASSETS/(LIABILITIES) January 27, 2024	July 29, 2023	CUMULATIVE AMOUNT OF FAIR VALUE HEDGING ADJUSTMENT INCLUDED IN THE CARRYING AMOUNT OF THE HEDGED ASSETS/LIABILITIES January 27, 2024	July 29, 2023
Short-term debt	Short-term debt	$ (990)	$ (983)	$ 10	$ 17					
Long-term debt	Long-term debt	$ (478)	$ (476)	$ 22	$ 24					

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

The effect of derivative instruments designated as fair value hedges, recognized in interest and other income (loss), net is summarized as follows (in millions):

		GAINS (LOSSES) FOR THE THREE MONTHS ENDED October 28, 2023	October 29, 2022				
		Three Months Ended January 27, 2024		Three Months Ended January 27, 2024	January 28, 2023	Six Months Ended January 27, 2024	January 28, 2023
Interest rate derivatives:	Interest rate derivatives:						
Hedged items							
Hedged items							
Hedged items	Hedged items	$ (9)	$ 39				
Derivatives designated as hedging instruments	Derivatives designated as hedging instruments	9	(39)				
Total	Total	$ —	$ —				

The effect on the Consolidated Statements of Operations of derivative instruments not designated as hedges is summarized as follows (in millions):

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Derivatives Not Designated as Hedging Instruments	Derivatives Not Designated as Hedging Instruments	Line Item in Statements of Operations	GAINS (LOSSES) FOR THE THREE MONTHS ENDED October 28, 2023	October 29, 2022	Derivatives Not Designated as Hedging Instruments	Line Item in Statements of Operations	GAINS (LOSSES) FOR THE THREE MONTHS ENDED January 27, 2024	January 28, 2023	GAINS (LOSSES) FOR THE SIX MONTHS ENDED January 27, 2024	January 28, 2023
Foreign currency derivatives	Foreign currency derivatives	Other income (loss), net	$ (130)	$ (72)						
Total return swaps—deferred compensation	Total return swaps—deferred compensation	Operating expenses and other	(77)	(25)						
Equity derivatives	Equity derivatives	Other income (loss), net	2	(1)						
Total	Total		$ (205)	$ (98)						

The notional amounts of our outstanding derivatives are summarized as follows (in millions):

		October 28, 2023	July 29, 2023		
January 27, 2024				January 27, 2024	July 29, 2023
Foreign currency derivatives	Foreign currency derivatives	$5,672	$5,419		
Interest rate derivatives	Interest rate derivatives	1,500	1,500		
Total return swaps—deferred compensation	Total return swaps—deferred compensation	783	792		
Total	Total	$7,955	$7,711		

(b) Offsetting of Derivative Instruments

We present our derivative instruments at gross fair values in the Consolidated Balance Sheets. However, our master netting and other similar arrangements with the respective counterparties allow for net settlement under certain conditions, which are designed to reduce credit risk by permitting net settlement with the same counterparty.

To further limit credit risk, we also enter into collateral security arrangements related to certain derivative instruments whereby cash is posted as collateral between the counterparties based on the fair market value of the derivative instrument. Under these collateral security arrangements, the net cash collateral provided for was $9 $13 million and $40 million as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively.

(c) Foreign Currency Exchange Risk

We conduct business globally in numerous currencies. Therefore, we are exposed to adverse movements in foreign currency exchange rates. To limit the exposure related to foreign currency changes, we enter into foreign currency contracts. We do not enter into such contracts for speculative purposes.

We hedge forecasted foreign currency transactions related to certain revenues, operating expenses and service cost of sales with currency options and forward contracts. These currency options and forward contracts, designated as cash flow hedges, generally have maturities of less than 24 months. The derivative instrument's gain or loss is initially reported as a component of accumulated other comprehensive income (AOCI) and subsequently reclassified into earnings when the hedged exposure affects earnings.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

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We enter into foreign exchange forward and option contracts to reduce the short-term effects of foreign currency fluctuations on assets and liabilities such as foreign currency receivables, long-term customer financings and payables. These derivatives are not designated as hedging instruments. Gains and losses on the contracts are included in other income (loss), net, and substantially offset foreign exchange gains and losses from the remeasurement of intercompany balances, other current monetary assets or and liabilities denominated in currencies other than the functional currency of the reporting entity.

We hedge certain net investments in our foreign operations with forward contracts to reduce the effects of foreign currency fluctuations on our net investment in those foreign subsidiaries. These derivative instruments generally have maturities of up to six months.

(d) Interest Rate Risk

We hold interest rate swaps designated as fair value hedges related to fixed-rate senior notes that are due in fiscal 2024 through 2025. Under these interest rate swaps, we receive fixed-rate interest payments and make interest payments based on SOFR plus a fixed number of basis points. The effect of such swaps is to convert the fixed interest rates of the senior fixed-rate notes to floating interest rates based on SOFR. The gains and losses related to changes in the fair value of the interest rate swaps are included in interest expense and substantially offset changes in the fair value of the hedged portion of the underlying debt that are attributable to the changes in market interest rates.

(e) Equity Price Risk

We hold marketable equity securities in our portfolio that are subject to price risk. To diversify our overall portfolio, we also hold equity derivatives that are not designated as accounting hedges. The change in the fair value of each of these investment types are included in other income (loss), net.

We are also exposed to variability in compensation charges related to certain deferred compensation obligations to employees and directors. Although not designated as accounting hedges, we utilize derivatives such as total return swaps to economically hedge this exposure and offset the related compensation expense.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

14. Commitments and Contingencies

(a) Purchase Commitments with Contract Manufacturers and Suppliers

We purchase components from a variety of suppliers and use several contract manufacturers to provide manufacturing services for our products. During the normal course of business, in order to manage manufacturing lead times and help ensure adequate component supply, we enter into agreements with contract manufacturers and suppliers that allow them to procure inventory based upon criteria as defined by us or establish the parameters defining our requirements. A significant portion of our reported purchase commitments arising from these agreements consists of firm, noncancelable, and unconditional commitments. Certain of these inventory purchase commitments with contract manufacturers and suppliers relate to arrangements to secure supply and pricing for certain product components for multi-year periods. In certain instances, these agreements allow us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed.

The following table summarizes our inventory purchase commitments with contract manufacturers and suppliers by period (in millions):

		October 28, 2023	July 29, 2023		
	January 27, 2024			January 27, 2024	July 29, 2023
Less than 1 year	Less than 1 year	$4,731	$5,270		
1 to 3 years	1 to 3 years	1,646	1,783		
3 to 5 years	3 to 5 years	127	200		
Total	Total	$6,504	$7,253		

We record a liability for firm, noncancelable, and unconditional purchase commitments for quantities in excess of our future demand forecasts consistent with the valuation of our excess and obsolete inventory. As of October 28, 2023 January 27, 2024 and July 29, 2023, the liability for these purchase commitments was $510 million $538 million and $529 million, respectively, and was included in other current liabilities.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(b) Other Commitments

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In connection with our acquisitions, we have agreed to pay certain additional amounts contingent upon the achievement of certain agreed-upon technology, development, product, or other milestones or upon the continued employment with Cisco of certain employees of the acquired entities.

The following table summarizes the compensation expense related to acquisitions (in millions):

	Three Months Ended	
	October 28, 2023	October 29, 2022
Compensation expense related to acquisitions	$ 49	$ 74

	Three Months Ended		Six Months Ended	
	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Compensation expense related to acquisitions	$ 45	$ 49	$ 94	$ 123

As of October 28, 2023 January 27, 2024, we estimated that future cash compensation expense of up to $437 million $397 million may be required to be recognized pursuant to the applicable business combination agreements.

We also have certain funding commitments, primarily related to our privately held investments, some of which are based on the achievement of certain agreed-upon milestones or are required to be funded on demand. investments. The funding commitments were $0.2 billion and $0.3 billion as of each of October 28, 2023 January 27, 2024 and July 29, 2023. , respectively.

(c) Product Warranties

The following table summarizes the activity related to the product warranty liability (in millions):

	Three Months Ended	
	October 28, 2023	October 29, 2022
Balance at beginning of period	$ 329	$ 333
Provisions for warranties issued	98	97
Adjustments for pre-existing warranties	3	1
Settlements	(100)	(108)
Balance at end of period	$ 330	$ 323

	Six Months Ended	
	January 27, 2024	January 28, 2023
Balance at beginning of period	$ 329	$ 333
Provisions for warranties issued	198	188
Adjustments for pre-existing warranties	5	13
Settlements	(205)	(218)
Balance at end of period	$ 327	$ 316

We accrue for warranty costs as part of our cost of sales based on associated material product costs, labor costs for technical support staff, and associated overhead. Our products are generally covered by a warranty for periods ranging from 90 days to five years, and for some products we provide a limited lifetime warranty.

(d) Financing and Other Guarantees

In the ordinary course of business, we provide financing guarantees for various third-party financing arrangements extended to channel partners customers. Payments under these financing guarantee arrangements were not material for the periods presented.

Channel Partner Financing Guarantees We facilitate arrangements for third-party financing extended to channel partners, consisting of revolving short-term financing, with payment terms generally ranging from 60 to 90 days. These financing arrangements facilitate the working capital requirements of the channel partners, and, in some cases, we guarantee a portion of these arrangements. The volume of channel partner financing was $8.2 billion $6.6 billion and $7.6 billion $7.5 billion for the second quarter of fiscal 2024 and 2023, respectively, and $14.8 billion and $15.1 billion for the first quarter six months of fiscal 2024 and 2023, respectively. The balance of the channel partner financing subject to guarantees was $1.5 billion $1.3 billion and $1.7 billion as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively.

Financing Guarantee Summary The aggregate amounts of channel partner financing guarantees outstanding at October 28, 2023 January 27, 2024 and July 29, 2023, representing the total maximum potential future payments under financing arrangements with third parties along with the related deferred revenue, are summarized in the following table (in millions):

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		October 28, 2023	July 29, 2023		
January 27, 2024				January 27, 2024	July 29, 2023
Maximum potential future payments	Maximum potential future payments	$ 142	$159		
Deferred revenue	Deferred revenue	(29)	(34)		
Total	Total	$ 113	$125		

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(e) Indemnifications

In the normal course of business, we have indemnification obligations to other parties, including customers, lessors, and parties to other transactions with us, with respect to certain matters. We have agreed to indemnify against losses arising from a breach of representations or covenants or out of intellectual property infringement or other claims made against certain parties. These agreements may limit the time or circumstances within which an indemnification claim can be made and the amount of the claim.

It is not possible to determine the maximum potential amount for claims made under the indemnification obligations due to uncertainties in the litigation process, coordination with and contributions by other parties and the defendants in these types of cases, and the unique facts and circumstances involved in each particular case and agreement. Historically, indemnity payments made by us have not had a material effect on our Consolidated Financial Statements.

In addition, we have entered into indemnification agreements with our officers and directors, and our Amended and Restated Bylaws contain similar indemnification obligations to our agents.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(f) Legal Proceedings

Brazil Brazilian authorities have investigated our Brazilian subsidiary and certain of its former employees, as well as a Brazilian importer of our products, and its affiliates and employees, relating to alleged evasion of import taxes and alleged improper transactions involving the subsidiary and the importer. Brazilian tax authorities have assessed claims against our Brazilian subsidiary based on a theory of joint liability with the Brazilian importer for import taxes, interest, and penalties. In addition to claims asserted by the Brazilian federal tax authorities in prior fiscal years, tax authorities from the Brazilian state of Sao Paulo have asserted similar claims on the same legal basis in prior fiscal years. The asserted claims by Brazilian federal tax authorities are for calendar years 2003 through 2007, and the asserted claims by the tax authorities from the state of Sao Paulo are for calendar years 2005 through 2007. The total asserted claims by Brazilian state and federal tax authorities aggregate to $162 million $165 million for the alleged evasion of import and other taxes, $943 million $929 million for interest, and $402 million $373 million for various penalties, all determined using an exchange rate as of October 28, 2023 January 27, 2024.

We have completed a thorough review of the matters and believe the asserted claims against our Brazilian subsidiary are without merit, and we are defending the claims vigorously. While we believe there is no legal basis for the alleged liability, due to the complexities and uncertainty surrounding the judicial process in Brazil and the nature of the claims asserting joint liability with the importer, we are unable to determine the likelihood of an unfavorable outcome against our Brazilian subsidiary and are unable to reasonably estimate a range of loss, if any. We do not expect a final judicial determination for several years.

Centripetal On February 13, 2018, Centripetal Networks, Inc. ("Centripetal") asserted patent infringement claims against us in the U.S. District Court for the Eastern District of Virginia, alleging that several of our products and services infringe eleven Centripetal U.S. patents. The district court case went After two bench trials and various administrative actions and appeals, we have been found either to trial on five asserted patents. Subsequently, on October 5, 2020, the district court issued a judgment finding validity and willful infringement of four not have infringed any of the asserted patents and non-infringement of or the fifth patent and awarded $1.9 billion in damages and $14 million in pre-judgment interest, declined to issue patents have been invalidated. There is an injunction but, instead, awarded Centripetal a royalty against future revenue for an initial three-year term at a 10% rate, with a minimum and maximum annual royalty of $168 million and $300 million, respectively, and for a second three-year term at a 5% rate, with a minimum and maximum annual royalty of $84 million and $150 million, respectively. We appealed and, on June 23, 2022, the U.S. Court of Appeals for the Federal Circuit ("Federal Circuit") vacated the district court's final judgment, remanded the case back to the district court to be assigned to a new judge and ordered the district court to conduct additional proceedings. The district court held a hearing on these additional proceedings over three days beginning on June 22, 2023, and a decision is pending. Prior to the hearing, on May 24, 2023, the Patent Trial and Appeal Board cancelled all claims appeal of one of the Centripetal patents that was the subject of the hearing. On August 9, 2022, Centripetal filed invalidity decisions and we

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expect a petition for writ of certiorari in the U.S. Supreme Court challenging the Federal Circuit's decision. The Supreme Court denied Centripetal's petition on December 5, 2022. further appeal by Centripetal.

Between April 2020 and February 2022, Centripetal also filed complaints in the District Court of Dusseldorf in Germany ("German Court"), asserting a total of five patents and one utility model. Centripetal sought damages and injunctive relief in all cases. On December 10, 2021, In various proceedings in 2021, 2022, and 2023, we have been found to have not infringe three patents, one patent was invalidated, the German Court rejected Centripetal's complaints utility model was invalidated, and the infringement action on two patents, the final patent is stayed due to a pending invalidity action. There are appeals pending and Centripetal has appealed. A hearing for a Cisco nullity action the next proceeding is expected in the Federal Patent Court in Germany on one second half of those two patents occurred on August 1, 2022, and we are waiting for the Court's opinion. On December 21, 2021, the German Court stayed its decision on infringement of the third patent pending a decision by the Federal Patent Court in a related nullity proceeding. On May 17, 2022, Centripetal withdrew its complaint for infringement of the German utility model. The German Court conducted a hearing on the remaining two Centripetal complaints on November 22, 2022. The German Court found no infringement on one patent and stayed the decision in the final case pending a decision by the European Patent Office in a related opposition proceeding. fiscal 2024.

On July 10, 2023, Centripetal filed a complaint in the Paris Judiciary Court asserting the French counterpart of a European Patent. Centripetal seeks damages and injunctive relief in the case. Centripetal previously asserted the German counterpart of the same European Patent in Germany and the German Court rejected Centripetal's complaint finding no infringement. We have filed our response and defenses to the complaint and the next proceedings are expected in the second half of fiscal 2024.

Due to uncertainty surrounding patent litigation processes in the U.S. and Europe, we are unable to reasonably estimate the ultimate outcome of the litigations at this time. If we do not prevail in these litigations, we believe that any damages ultimately assessed would not have a material effect on our Consolidated Financial Statements.

Ramot On June 12, 2019 and on February 26, 2021, Ramot at Tel Aviv University Ltd. ("Ramot") asserted patent infringement claims against us Cisco and Acacia in the U.S. District Court for the Eastern District of Texas ("E.D. Tex.") and in the District of Delaware ("D. Del."), respectively. Ramot is seeking damages, including enhanced damages, and a royalty on future sales. Ramot alleges that certain Cisco optical transceiver modules and line cards infringe three patents. We challenged the validity of all three patents in the U.S. Patent and Trademark Office ("PTO") by way of ex parte reexamination proceedings and the pending District Court case has been stayed. On July 6, 2023, the PTO issued a reexamination certificate for one of the three patents. On August 29, 2023, Cisco filed a second ex parte reexamination request against that same patent.

On October 30, 2023, the PTO issued a reexamination certificate for a second validity of the three patents. The third asserted patent remains the subject of a pending reexamination proceeding.

On February 26, 2021, Ramot asserted patent infringement claims against Acacia Communications, Inc. ("Acacia") patents in the U.S. Patent and Trademark Office ("PTO") and the pending District of Delaware ("D. Del."), seeking damages, including enhanced damages, and a royalty on future sales. Ramot alleges that certain Acacia optical transceiver modules and integrated circuits infringe two of the three patents that Ramot asserted in the E.D. Tex. case and this case is also stayed pending the reexamination proceedings referenced above.

Court cases have been stayed. On September 28, 2021 and May 24, 2022, Cisco and Acacia filed two declaratory judgment actions of noninfringement against Ramot in D. Del on other Ramot patents patents. The next proceedings are expected in the same family as those involved in the pending cases above. Ramot is asserting counterclaims for infringement first half of the same patents and seeks damages, including enhanced damages, and a royalty on future sales. fiscal 2025.

While we believe that we have strong non-infringement and invalidity arguments in these litigations, and that Ramot's damages theories in such cases are not supported by prevailing law, we are unable to reasonably estimate the ultimate outcome of these litigations at this time due to uncertainties in the litigation processes. If we do not prevail in court in these litigations, we believe any damages ultimately assessed would not have a material effect on our Consolidated Financial Statements.

Viasat On November 6, 2019, Viasat, Inc. ("Viasat") filed suit against Acacia in the California Superior Court for San Diego County ("SDSC"), alleging contract and trade secret claims for certain Acacia products sold from January 1, 2019 forward ("Viasat 2019"). In May 2023, a judgment was entered against Cisco in Viasat 2019 for an amount that did not have a material effect on our Consolidated Financial Statements. Acacia filed an appeal with the California Court of Appeal.

On June 9, 2020, Viasat filed another suit in SDSC alleging contract and trade secret claims for sales of additional Acacia products ("Viasat 2020"). In October 2022, an amended complaint was filed in Viasat 2020 asserting the same claims but alleging additional information. The parties have since resolved both the Viasat 2019 appeal and Viasat 2020, with dismissals entered in each matter in October 2023. The amounts paid by us to resolve these matters did not have a material effect on our Consolidated Financial Statements.

Egenera On August 8, 2016, Egenera, Inc. ("Egenera") asserted infringement claims against us in the U.S. District Court for the District of Massachusetts, alleging that Cisco's Unified Computing System Manager infringes three patents. Egenera sought damages, including enhanced damages, and an injunction. Two of the asserted patents were dismissed, leaving Egenera's infringement claim based on one asserted patent. On March 25, 2022, the PTO preliminarily found all of the asserted claims of the remaining patent unpatentable in ex parte reexamination proceedings. On August 15, 2022, after a jury trial for the remaining patent, the jury returned a verdict in favor of Cisco. The District Court denied Egenera's post-trial motions, and Egenera filed an appeal to the Federal Circuit on January 13, 2023 and those the next proceedings are ongoing. expected in the second half of fiscal 2024.

Viasat On November 6, 2019, Viasat, Inc. ("Viasat") filed suit against Acacia in the California Superior Court for San Diego County ("SDSC"), alleging contract and trade secret claims for certain Acacia products sold from January 1, 2019 forward. On June 9, 2020, Viasat filed another suit in SDSC alleging contract and trade secret claims for sales of additional Acacia products. Both matters have been formally dismissed and resolved through a settlement for an amount that did not have a material effect on our Consolidated Financial Statements.

In addition to the above matters, we are subject to other legal proceedings, claims, and litigation arising in the ordinary course of business, including intellectual property litigation. While the outcome of these matters is currently not determinable, we do not believe that the ultimate costs to resolve these matters will have a material effect on our Consolidated Financial Statements. For additional information regarding intellectual property litigation, see "Part II, Item 1A. Risk Factors—We may be found to infringe on intellectual property rights of others" herein.

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15. Stockholders' Equity

(a) Stock Repurchase Program

In September 2001, our Board of Directors authorized a stock repurchase program. As of October 28, 2023 January 27, 2024, the remaining authorized amount for stock repurchases under this program was approximately $9.7 billion $8.4 billion with no termination date. A summary of the The stock repurchase activity for fiscal 2024 and 2023 under the stock repurchase program, reported based on the trade date, is summarized as follows (in millions, except per-share amounts):

Quarter Ended	Quarter Ended	Shares	Weighted-Average Price per Share	Amount	Quarter Ended	Shares	Weighted-Average Price per Share	Amount
Fiscal 2024	Fiscal 2024							
January 27, 2024								
January 27, 2024								
January 27, 2024								
October 28, 2023	October 28, 2023	23	$ 54.53	$1,252				
Fiscal 2023	Fiscal 2023							
Fiscal 2023								
Fiscal 2023								
July 29, 2023								
July 29, 2023								
July 29, 2023	July 29, 2023	25	$ 50.49	$1,254				
April 29, 2023	April 29, 2023	25	$ 49.45	$1,259				
January 28, 2023	January 28, 2023	26	$ 47.72	$1,256				
October 29, 2022	October 29, 2022	12	$ 43.76	$ 502				

There were stock repurchases of $50 million and $48 million that were pending settlement as of January 27, 2024 and July 29, 2023. , respectively.

The purchase price for the shares of our stock repurchased is reflected as a reduction to stockholders' equity. We are required to allocate the purchase price of the repurchased shares as (i) a reduction to retained earnings or an increase to accumulated deficit and (ii) a reduction of common stock and additional paid-in capital.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(b) Dividends Declared

On November 15, 2023 February 14, 2024, our Board of Directors declared a quarterly dividend of $0.39 $0.40 per common share to be paid on January 24, 2024 April 24, 2024, to all stockholders of record as of the close of business on January 4, 2024 April 4, 2024. Future dividends will be subject to the approval of our Board of Directors.

(c) Preferred Stock

Under the terms of our Amended and Restated Certificate of Incorporation, the Board of Directors is authorized to issue preferred stock in one or more series and, in connection with the creation of such series, to fix by resolution the designation, powers (including voting powers (if any)), preferences and relative, participating, optional or other special rights, if any, of such series, and any qualifications, limitations or restrictions thereof, of the shares of such series. As of October 28, 2023 January 27, 2024, we had not issued any shares of preferred stock.

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16. Employee Benefit Plans

(a) Employee Stock Incentive Plans

We have one stock incentive plan: the 2005 Stock Incentive Plan (the "2005 Plan"). In addition, we have, in connection with our acquisitions of various companies, assumed the share-based awards granted under stock incentive plans of the acquired companies or issued share-based awards in replacement thereof. Share-based awards are designed to reward employees for their long-term contributions to us and provide incentives for them to remain with us. The number and frequency of share-based awards are based on competitive practices, our operating results, government regulations, and other factors. Our primary stock incentive plan is summarized as follows:

The 2005 Plan provides for the granting of stock options, stock grants, stock units and stock appreciation rights (SARs), the vesting of which may be time-based or upon satisfaction of performance goals, or both, and/or other conditions. Employees (including employee directors and executive officers) and consultants of Cisco and its subsidiaries and affiliates and non-employee directors of Cisco are eligible to participate in the 2005 Plan. The 2005 Plan may be terminated by our Board of Directors at any time and for any reason, and is currently set to terminate at the 2030 Annual Meeting unless re-adopted or extended by our stockholders prior to or on such date.

Under the 2005 Plan's share reserve feature, a distinction is made between the number of shares in the reserve attributable to (i) stock options and SARs and (ii) "full value" awards (i.e., stock grants and stock units). Shares issued as stock grants, pursuant

to stock units or pursuant to the settlement of dividend equivalents are counted against shares available for issuance under the 2005 Plan on a 1.5-to-1 ratio. For each share awarded as restricted stock or a restricted stock unit award under the 2005 Plan, 1.5 shares was deducted from the available share-based award balance. If awards issued under the 2005 Plan are forfeited or terminated for any reason before being exercised or settled, then the shares underlying such awards, plus the number of additional shares, if any, that counted against shares available for issuance under the 2005 Plan at the time of grant as a result of the application of the share ratio described above, will become available again for issuance under the 2005 Plan. As of October 28, 2023 January 27, 2024, 114 million 156 million shares were authorized for future grant under the 2005 Plan.

(b) Employee Stock Purchase Plan

We have an Employee Stock Purchase Plan under which eligible employees are offered shares through a 24-month offering period, which consists of four consecutive 6-month purchase periods. Employees may purchase a limited amount of shares of our stock at a discount of up to 15% of the lesser of the fair market value at the beginning of the offering period or the end of each 6-month purchase period. The Employee Stock Purchase Plan is scheduled to terminate on the earlier of (i) January 3, 2030 and (ii) the date on which all shares available for issuance under the Employee Stock Purchase Plan are sold pursuant to exercised purchase rights. No shares were issued under Under the Employee Stock Purchase Plan, we issued 10 million shares during each of the second quarter and first quarters six months of fiscal 2024 and 9 million shares during the second quarter and first six months of fiscal 2023. As of October 28, 2023 January 27, 2024, 88 million 78 million shares were available for issuance under the Employee Stock Purchase Plan.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(c) Summary of Share-Based Compensation Expense

Share-based compensation expense consists primarily of expenses for RSUs and stock purchase rights, and stock options, granted to employees or assumed from acquisitions. The following table summarizes share-based compensation expense (in millions):

		Three Months Ended		Three Months Ended		Six Months Ended	
		October 28, 2023	October 29, 2022				
Three Months Ended January 27, 2024				January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Cost of sales—product	Cost of sales—product	$ 42	$ 31				
Cost of sales—service	Cost of sales—service	61	50				
Share-based compensation expense in cost of sales	Share-based compensation expense in cost of sales	103	81				
Research and development	Research and development	274	204				
Sales and marketing	Sales and marketing	186	153				

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General and administrative	General and administrative	90	58
Restructuring and other charges	Restructuring and other charges	8	—
Share-based compensation expense in operating expenses	Share-based compensation expense in operating expenses	558	415
Total share-based compensation expense	Total share-based compensation expense	$ 661	$ 496
Income tax benefit for share-based compensation	Income tax benefit for share-based compensation	$ 143	$ 99

As of October 28, 2023 January 27, 2024, the total compensation cost related to unvested share-based awards not yet recognized was $4.5 billion $5.4 billion which is expected to be recognized over approximately 2.1 2.2 years on a weighted-average basis.

(d) Restricted Stock Unit Awards

A summary of the restricted stock and stock unit activity, which includes time-based and performance-based or market-based RSUs, is as follows (in millions, except per-share amounts):

		Restricted Stock/ Stock Units	Weighted-Average Grant Date Fair Value per Share	Aggregate Fair Value			
	Restricted Stock/ Stock Units				Restricted Stock/ Stock Units	Weighted-Average Grant Date Fair Value per Share	Aggregate Fair Value
Unvested balance at July 30, 2022	Unvested balance at July 30, 2022	97	$ 46.67				
Granted and assumed	Granted and assumed	72	42.08				
Granted and assumed							
Granted and assumed							
Vested							
Vested							
Vested	Vested	(39)	46.69	$ 1,746			
Canceled/forfeited/other	Canceled/forfeited/other	(8)	45.17				
Unvested balance at July 29, 2023	Unvested balance at July 29, 2023	122	$ 44.04				
Unvested balance at July 29, 2023							
Unvested balance at July 29, 2023							
Granted and assumed							
Granted and assumed							
Granted and assumed	Granted and assumed	11	51.70				
Vested	Vested	(9)	44.86	$ 460			
Vested							
Vested							

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Canceled/forfeited/other Canceled/forfeited/other	(1)		41.31
Unvested balance at October 28, 2023	123	$	44.69
Unvested balance at January 27, 2024			
Unvested balance at January 27, 2024			
Unvested balance at January 27, 2024			

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

17. Comprehensive Income (Loss)

The components of AOCI, net of tax, and the other comprehensive income (loss), for the first quarter six months of fiscal 2024 and 2023 are summarized as follows (in millions):

		Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) Cash Flow Hedging Instruments	Cumulative Translation Adjustment and Actuarial Gains (Losses)	Accumulated Other Comprehensive Income (Loss)
	Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) Cash Flow Hedging Instruments	Cumulative Translation Adjustment and Actuarial Gains (Losses)	Accumulated Other Comprehensive Income (Loss)
Balance at July 29, 2023	Balance at July 29, 2023	$ (440)	$ 18	$ (1,153)	$ (1,575)
Other comprehensive income (loss) before reclassifications	Other comprehensive income (loss) before reclassifications	(170)	38	(356)	(488)
(Gains) losses reclassified out of AOCI	(Gains) losses reclassified out of AOCI	20	(12)	(1)	7
Tax benefit (expense)	Tax benefit (expense)	36	(6)	1	31
Balance at October 28, 2023		$ (554)	$ 38	$ (1,509)	$ (2,025)
Balance at January 27, 2024					

		Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) Cash Flow Hedging Instruments	Cumulative Translation Adjustment and Actuarial Gains (Losses)	Accumulated Other Comprehensive Income (Loss)
	Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) on Available-for-Sale Investments	Net Unrealized Gains (Losses) Cash Flow Hedging Instruments	Cumulative Translation Adjustment and Actuarial Gains (Losses)	Accumulated Other Comprehensive Income (Loss)
Balance at July 30, 2022	Balance at July 30, 2022	$ (379)	$ 44	$ (1,287)	$ (1,622)
Other comprehensive income (loss) before reclassifications	Other comprehensive income (loss) before reclassifications	(329)	32	(282)	(579)
(Gains) losses reclassified out of AOCI	(Gains) losses reclassified out of AOCI	6	(19)	—	(13)

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Tax benefit (expense)	Tax benefit (expense)	77	(3)	22	96
Balance at October 29, 2022		$ (625)	$ 54	$ (1,547)	$ (2,118)
Balance at January 28, 2023					

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

18. Income Taxes

The following table provides details of income taxes (in millions, except percentages):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended			Three Months Ended		Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Income before provision for income taxes	Income before provision for income taxes	$4,442	$3,475				
Provision for income taxes	Provision for income taxes	$ 804	$ 805				
Effective tax rate	Effective tax rate	18.1 %	23.2 %	Effective tax rate 16.7 %	18.8 %	17.5 %	21.0 %

As of October 28, 2023 January 27, 2024, we had $1.9 billion $2.0 billion of unrecognized tax benefits, of which $1.5 billion $1.6 billion, if recognized, would favorably impact the effective tax rate. We regularly engage in discussions and negotiations with tax authorities regarding tax matters in various jurisdictions. We believe it is reasonably possible that certain federal, foreign, and state tax matters may be concluded in the next 12 months. Specific positions that may be resolved include issues involving transfer pricing and various other matters.

19. Segment Information and Major Customers

(a) Revenue and Gross Margin by Segment

We conduct business globally and are primarily managed on a geographic basis consisting of three segments: the Americas, EMEA, and APJC. Our management makes financial decisions and allocates resources based on the information it receives from our internal management system. Sales are attributed to a segment based on the ordering location of the customer. We do not allocate research and development, sales and marketing, or general and administrative expenses to our segments in this internal management system because management does not include the information in our measurement of the performance of the operating segments. In addition, we do not allocate amortization and impairment of acquisition-related intangible assets, share-based compensation expense, significant litigation settlements and other contingencies, charges related to asset impairments and restructurings, and certain other charges to the gross margin for each segment because management does not include this information in our measurement of the performance of the operating segments.

Summarized financial information by segment for the second quarter and first quarter six months of fiscal 2024 and 2023, based on our internal management system and as utilized by our Chief Operating Decision Maker ("CODM"), is as follows (in millions):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended			Three Months Ended		Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Revenue:	Revenue:						
Americas							

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Americas			
Americas	Americas	$ 9,022	$ 7,914
EMEA	EMEA	3,664	3,675
APJC	APJC	1,982	2,043
Total	Total	$14,668	$13,632
Gross margin:	Gross margin:		
Americas	Americas	$ 5,968	$ 4,984
Americas			
Americas			
EMEA	EMEA	2,545	2,325
APJC	APJC	1,328	1,274
Segment total	Segment total	9,841	8,582
Unallocated corporate items	Unallocated corporate items	(284)	(236)
Total	Total	$ 9,557	$ 8,346

Amounts may not sum due to rounding.

Revenue in the United States was $8.1 6.7 billion and $7.1 7.0 billion for the second quarter of fiscal 2024 and 2023, respectively and $14.9 billion and $14.0 billion for the first quarter six months of fiscal 2024 and 2023, respectively.

CISCO SYSTEMS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Continued)
(Unaudited)

(b) Revenue for Groups of Similar Products and Services

We design and sell Internet Protocol (IP)-based networking and other products related to the communications and IT industry and provide services associated with these products and their use. Effective in the first quarter of fiscal 2024, we began reporting our product and service revenue in the following categories: Networking, Security, Collaboration, Observability, and Services and conformed our product revenue for prior periods to the current period presentation.

The following table presents revenue for groups of similar products and services (in millions):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
	Three Months Ended January 27, 2024			Three Months Ended		Six Months Ended	
				January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Revenue:	Revenue:						
Networking							
Networking							
Networking	Networking	$ 8,822	$ 8,031				
Security	Security	1,010	971				
Collaboration	Collaboration	1,117	1,086				
Observability	Observability	190	157				
Total Product	Total Product	11,139	10,245				
Services	Services	3,529	3,387				
Total	Total	$14,668	$13,632				

Amounts may not sum due to rounding.

20. Net Income per Share

The following table presents the calculation of basic and diluted net income per share (in millions, except per-share amounts):

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		Three Months Ended	
		October 28, 2023	October 29, 2022
Net income	Net income	$3,638	$2,670
Weighted-average shares—basic	Weighted-average shares—basic	4,057	4,108
Effect of dilutive potential common shares	Effect of dilutive potential common shares	30	8
Weighted-average shares—diluted	Weighted-average shares—diluted	4,087	4,116
Net income per share—basic	Net income per share—basic	$ 0.90	$ 0.65
Net income per share—diluted	Net income per share—diluted	$ 0.89	$ 0.65
Antidilutive employee share-based awards, excluded	Antidilutive employee share-based awards, excluded	16	38

Three Months Ended	Three Months Ended		Six Months Ended	
January 27, 2024	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Forward-Looking Statements

This Quarterly Report on Form 10-Q, including this Management's Discussion and Analysis of Financial Condition and Results of Operations, contains forward-looking statements regarding future events and our future results that are subject to the safe harbors created under the Securities Act of 1933, as amended (the "Securities Act"), and the Securities Exchange Act of 1934, as amended (the "Exchange Act"). All statements other than statements of historical facts are statements that could be deemed forward-looking statements. These statements are based on current expectations, estimates, forecasts, and projections about the industries in which we operate and the beliefs and assumptions of our management. Words such as "expects," "anticipates," "targets," "goals," "projects," "intends," "plans," "believes," "momentum," "seeks," "estimates," "continues," "endeavors," "strives," "may," variations of such words, and similar expressions are intended to identify such forward-looking statements. In addition, any statements that refer to projections of our future financial performance, our anticipated growth and trends in our businesses, and other characterizations of future events or circumstances are forward-looking statements. Readers are cautioned that these forward-looking statements are only predictions and are subject to risks, uncertainties, and assumptions that are difficult to predict, including those under "Part II, Item 1A. Risk Factors," and elsewhere herein. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. We undertake no obligation to revise or update any forward-looking statements for any reason.

OVERVIEW

Cisco designs and sells a broad range of technologies that power the Internet. We are integrating our product portfolios across networking, security, collaboration, applications and the cloud to create highly secure, intelligent platforms for our customers' digital businesses. These platforms are designed to help our customers manage more users, devices and

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things connecting to their networks. This will enable us to provide customers with a highly secure, intelligent platform for their digital business.

A summary of our results is as follows (in millions, except percentages and per-share amounts):

		Three Months Ended										
		October 28, 2023	October 29, 2022	% Variance								
	Three Months Ended											
		January 27, 2024										
		January 27, 2024										
		January 27, 2024										
Revenue	Revenue	$14,668	$13,632	8 %								
Revenue												
Revenue												
Gross margin percentage												
Gross margin percentage												
Gross margin percentage	Gross margin percentage	65.2 %	61.2 %	4.0 pts	64.2 %	62.0 %	2.2 pts	pts	64.7 %	61.6 %	3.1 pts	pts
Research and development	Research and development	$ 1,913	$ 1,781	7 %								
Sales and marketing	Sales and marketing	$ 2,506	$ 2,391	5 %								
Sales and marketing												
Sales and marketing												
General and administrative												
General and administrative												
General and administrative	General and administrative	$ 672	$ 565	19 %								
Total research and development, sales and marketing, general and administrative	Total research and development, sales and marketing, general and administrative	$ 5,091	$ 4,737	7 %								
Total research and development, sales and marketing, general and administrative												
Total research and development, sales and marketing, general and administrative												
Total as a percentage of revenue												
Total as a percentage of revenue												
Total as a percentage of revenue	Total as a percentage of revenue	34.7 %	34.7 %	— pts	39.4 %	35.5 %	3.9 pts	pts	36.9 %	35.1 %	1.8 pts	pts

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Restructuring and other charges included in operating expenses	Restructuring and other charges included in operating expenses	$ 123	$ (2)	NM						
Operating income as a percentage of revenue	Operating income as a percentage of revenue	29.2 %	26.0 %	3.2 pts						
Operating income as a percentage of revenue										
Operating income as a percentage of revenue					24.2 %	24.2 %	— pts	26.8 %	25.1 %	1.7 pts
Interest and other income (loss), net	Interest and other income (loss), net	$ 166	$ (65)	NM						
Income tax percentage										
Income tax percentage										
Income tax percentage	Income tax percentage	18.1 %	23.2 %	(5.1) pts	16.7 %	18.8 %	(2.1) pts pts	17.5 %	21.0 %	(3.5) pts pts
Net income	Net income	$ 3,638	$ 2,670	36 %						
Net income as a percentage of revenue	Net income as a percentage of revenue	24.8 %	19.6 %	5.2 pts						
Net income as a percentage of revenue										
Net income as a percentage of revenue					20.6 %	20.4 %	0.2 pts	22.8 %	20.0 %	2.8 pts
Earnings per share—diluted	Earnings per share—diluted	$ 0.89	$ 0.65	37 %						

Percentages may not recalculate due to rounding.

NM — Not meaningful

Table of Contents

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022

In the first quarter of fiscal 2024, we delivered solid results with growth in revenue, margins and profitability. The challenges we previously saw with supply constraints have now shifted downstream to implementation by our customers and third-party resellers. Our customer lead times have largely returned to normal levels. We were able to increase the delivery of products to our customers, which positively impacted product revenue during the first quarter of fiscal 2024. Although product revenue increased, we saw a decline in product demand in the first quarter of fiscal 2024. While we recognize that challenging macroeconomic factors continue to exist, we believe the decline in product demand is primarily due to customers needing additional time to implement elevated levels of product shipments from prior quarters. We believe these elevated levels represent one to two quarters of product shipments that our customers have not yet deployed. We saw this dynamic primarily with our larger enterprise, service provider and cloud customers. January 28, 2023

Total revenue increased decreased by 8% 6% compared with the first second quarter of fiscal 2023. Within total revenue, product revenue increased decreased by 9% and service revenue increased by 4%. In the first second quarter of fiscal 2024, total software revenue was $4.4 billion flat at $4.2 billion across all product areas and service, an increase of 13%. service. Within total software revenue, subscription revenue increased 13% 5%.

In the second quarter of fiscal 2024, we saw customers more closely scrutinizing spend given the high level of uncertainty in the macroeconomic environment. Additionally, our customers and third-party resellers are continuing to implement elevated levels of product shipments from recent quarters, which we believe contributed to the decline in product demand. For the product categories in which we can measure customer inventory absorption, we are seeing steady progress. However, we believe we are an additional one to two quarters away from full implementation of product shipments, which is longer than we initially expected. We saw this dynamic primarily with our service provider and cloud customers and enterprise customers. We believe these impacts on product demand may continue through at least the end of fiscal 2024.

Total gross margin increased by 4.0 2.2 percentage points. Product gross margin increased by 5.3 2.5 percentage points, largely driven by productivity improvements favorable pricing and favorable product mix. mix, partially offset by pricing erosion. As a percentage of revenue, research and development, sales and marketing, and general and

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administrative expenses, collectively, was flat. increased by 3.9 percentage points. Operating income as a percentage of revenue increased by 3.2 percentage points was flat driven by higher product gross margin partially offset by restructuring and other charges of $123 million higher operating expenses in the first second quarter of fiscal 2024. Diluted earnings per share increased 37% decreased 3%, driven by an increase a decrease of 36% 5% in net income, and partially offset by a decrease in diluted share count of 29 million 43 million shares.

In terms of our geographic segments, revenue from the Americas increased $1.1 billion decreased by $315 million, EMEA revenue decreased by $11 million $244 million and APJC revenue decreased by $61 million $241 million. From a customer market standpoint, we experienced product revenue growth declines in the enterprise and public sector service provider and cloud markets, partially offset by a decline growth in the service provider and cloud public sector market. From a product category perspective, the product revenue increase decrease of 9% was driven by a decline in revenue in Networking of 12%. This decline was partially offset by product revenue growth in revenue for Networking of 10%, Security of 4% 3%, Collaboration of 3% and Observability of 21% 16%.

We remain focused on delivering innovation across our technologies to assist our customers in executing on their digital transformations. Further, we made continued to make progress in the transition of our business model by delivering increased software and subscriptions. subscription revenue. We remain focused on accelerating innovation across our portfolio, and we believe that we are making progress on our strategic priorities. We continue to operate in a challenging macroeconomic and highly competitive environment. While the overall environment remains uncertain, we continue to aggressively invest in priority areas with the objective of driving profitable growth over the long term.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Total revenue increased 1%, with product revenue flat and service revenue increasing 4%. Total gross margin increased 3.1 percentage points due to productivity improvements, favorable product mix and favorable pricing. As a percentage of revenue, research and development, sales and marketing, and general and administrative expenses, collectively, increased by 1.8 percentage points. Operating income as a percentage of revenue increased by 1.7 percentage points. We incurred restructuring and other charges of $135 million in the first six months of fiscal 2024. Diluted earnings per share increased 17%, driven by an increase of 15% in net income, partially offset by a decrease in diluted share count of 36 million shares.

Strategy and Priorities

As our customers add billions of new connections to their enterprises, and as more applications move to a multicloud environment, the network becomes even more critical. Our customers are navigating change at an unprecedented pace. In this dynamic environment, we believe their priorities are to transform infrastructure, secure the enterprise, power hybrid work, reimagine applications, and drive toward sustainability. Our strategy is to securely connect everything. We are committed to driving a trusted customer experience, through our innovation, solutions, choice, and people.

For additional discussion of our strategy and priorities, see Item 1. Business in our Annual Report on Form 10-K for the fiscal year ended July 29, 2023.

Other Key Financial Measures

The following is a summary of our other key financial measures for the first second quarter of fiscal 2024 (in millions):

			October 28, 2023	July 29, 2023		
		January 27, 2024			January 27, 2024	July 29, 2023
Cash and cash equivalents and investments	Cash and cash equivalents and investments	$	23,523	$26,146		
Remaining performance obligations	Remaining performance obligations	$	34,753	$34,868		
Inventories	Inventories	$	3,342	$ 3,644		

	Three Months Ended			
	October 28, 2023	October 29, 2022		
	Six Months Ended		Six Months Ended	
	January 27, 2024		January 27, 2024	January 28, 2023

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Cash provided by operating activities	Cash provided by operating activities	$	2,371	$3,962
Repurchases of common stock—stock repurchase program	Repurchases of common stock—stock repurchase program	$	1,252	$ 502
Dividends paid	Dividends paid	$	1,580	$1,560

Table of Contents

CRITICAL ACCOUNTING ESTIMATES

The preparation of financial statements and related disclosures in conformity with accounting principles generally accepted in the United States requires us to make judgments, assumptions, and estimates that affect the amounts reported in the Consolidated Financial Statements and accompanying notes. Note 2 to the Consolidated Financial Statements in our Annual Report on Form 10-K for the fiscal year ended July 29, 2023, as updated as applicable in Note 2 to the Consolidated Financial Statements herein, describes the significant accounting policies and methods used in the preparation of the Consolidated Financial Statements. The accounting policies described below are significantly affected by critical accounting estimates. Such accounting policies require significant judgments, assumptions, and estimates used in the preparation of the Consolidated Financial Statements, and actual results could differ materially from the amounts reported based on these policies.

Revenue Recognition

We enter into contracts with customers that can include various combinations of products and services which are generally distinct and accounted for as separate performance obligations. As a result, our contracts may contain multiple performance obligations. We determine whether arrangements are distinct based on whether the customer can benefit from the product or service on its own or together with other resources that are readily available and whether our commitment to transfer the product or service to the customer is separately identifiable from other obligations in the contract. We classify our hardware, perpetual software licenses, and SaaS as distinct performance obligations. Term software licenses represent multiple obligations, which include software licenses and software maintenance. In transactions where we deliver hardware or software, we are typically the principal and we record revenue and costs of goods sold on a gross basis.

We recognize revenue upon transfer of control of promised goods or services in a contract with a customer in an amount that reflects the consideration we expect to receive in exchange for those products or services. Transfer of control occurs once the customer has the contractual right to use the product, generally upon shipment, electronic delivery (or when the software is available for download by the customer), or once title and risk of loss has transferred to the customer. Transfer of control can also occur over time for software maintenance and services as the customer receives the benefit over the contract term. Our hardware and perpetual software licenses are distinct performance obligations where revenue is recognized upfront upon transfer of control. Term software licenses include multiple performance obligations where the term licenses are recognized upfront upon transfer of control, with the associated software maintenance revenue recognized ratably over the contract term as services and software updates are provided. SaaS arrangements do not include the right for the customer to take possession of the software during the term, and therefore have one distinct performance obligation which is satisfied over time with revenue recognized ratably over the contract term as the customer consumes the services. On our product sales, we record consideration from shipping and handling on a gross basis within net product sales. We record our revenue net of any associated sales taxes.

Revenue is allocated among these performance obligations in a manner that reflects the consideration that we expect to be entitled to for the promised goods or services based on standalone selling prices (SSP). SSP is estimated for each distinct performance obligation and judgment may be required in their determination. The best evidence of SSP is the observable price of a product or service when we sell the goods separately in similar circumstances and to similar customers. In instances where SSP is not directly observable, we determine SSP using information that may include market conditions and other observable inputs.

We assess relevant contractual terms in our customer contracts to determine the transaction price. We apply judgment in identifying contractual terms and determining the transaction price as we may be required to estimate variable consideration when determining the amount of revenue to recognize. Variable consideration includes potential contractual penalties and various rebate, cooperative marketing and other incentive programs that we offer to our distributors, channel partners and customers. When determining the amount of revenue to recognize, we estimate the expected usage of these programs, applying the expected value or most likely estimate and update the estimate at each reporting period as actual utilization becomes available. We also consider the customers' right of return in determining the transaction price, where applicable. If actual credits received by distributors under these programs were to deviate significantly from our estimates, which are based on historical experience, our revenue could be adversely affected.

See Note 3 to the Consolidated Financial Statements for more details.

Inventory Valuation and Liability for Purchase Commitments with Contract Manufacturers and Suppliers

Inventory is written down based on excess and obsolete inventories, determined primarily by future demand forecasts. Inventory write-downs are measured as the difference between the cost of the inventory and net realizable value, based upon assumptions about future demand, and are charged to the provision for inventory, which is a component of our cost of sales. At the point of the loss recognition, a new, lower cost basis for that inventory is established, and subsequent changes in facts and circumstances do not result in the restoration or increase in that newly established cost basis.

Table of Contents

CISCO SYSTEMS, INC.
MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (Continued)

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We record a liability for firm, noncancelable, and unconditional purchase commitments with contract manufacturers and suppliers for quantities in excess of our future demand forecasts consistent with the valuation of our excess and obsolete inventory.

Our provision for inventory was $133 million $258 million and $38 million $92 million for the first quarter six months of fiscal 2024 and 2023, respectively. The provision for the liability related to purchase commitments with contract manufacturers and suppliers was $43 million $128 million and $83 million $199 million for the first quarter six months of fiscal 2024 and 2023, respectively. If there were to be a sudden and significant decrease in demand for our products, if there were a higher incidence of inventory obsolescence because of rapidly changing technology and customer requirements, or if supply constraints were to continue, we could be required to increase our inventory write-downs, and our liability for purchase commitments with contract manufacturers and suppliers, and accordingly our profitability, could be adversely affected. We regularly evaluate our exposure for inventory write-downs and the adequacy of our liability for purchase commitments. For further discussion around the Supply Constraints Impacts and Risks, see "—Results of Operations—Gross Margin—Supply Constraints Impacts and Risks" and "—Liquidity and Capital Resources—Inventory Supply Chain."

Loss Contingencies

We are subject to the possibility of various losses arising in the ordinary course of business. We consider the likelihood of the incurrence of a liability, as well as our ability to reasonably estimate the amount of loss, in determining loss contingencies. An estimated loss contingency is accrued when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. We regularly evaluate information available to us to determine whether such accruals should be made or adjusted and whether new accruals are required.

Third parties, including customers, have in the past and may in the future assert claims or initiate litigation related to exclusive patent, copyright, trademark, and other intellectual property rights to technologies and related standards that are relevant to us. These assertions have increased over time as a result of our growth and the general increase in the pace of patent claims assertions, particularly in the United States. If any infringement or other intellectual property claim made against us by any third party is successful, or if we fail to develop non-infringing technology or license the proprietary rights on commercially reasonable terms and conditions, our business, operating results, and financial condition could be materially and adversely affected.

Goodwill and Purchased Intangible Asset Impairments

Our methodology for allocating the purchase price relating to purchase acquisitions is determined through established valuation techniques. Goodwill represents a residual value as of the acquisition date, which in most cases results in measuring goodwill as an excess of the purchase consideration transferred plus the fair value of any noncontrolling interest in the acquired company over the fair value of net assets acquired, including contingent consideration. We perform goodwill impairment tests on an annual basis in the fourth fiscal quarter and between annual tests in certain circumstances for each reporting unit. The assessment of fair value for goodwill and purchased intangible assets is based on factors that market participants would use in an orderly transaction in accordance with the new accounting guidance for the fair value measurement of nonfinancial assets.

In response to changes in industry and market conditions, we could be required to strategically realign our resources and consider restructuring, disposing of, or otherwise exiting businesses, which could result in an impairment of goodwill. There was no impairment of goodwill in each of the first quarters six months of fiscal 2024 and 2023.

The fair value of acquired technology and patents, as well as acquired technology under development, is determined at acquisition date primarily using the income approach, which discounts expected future cash flows to present value. The discount rates used in the present value calculations are typically derived from a weighted-average cost of capital analysis and then adjusted to reflect risks inherent in the development lifecycle as appropriate. We consider the pricing model for products related to these acquisitions to be standard within the high-technology communications industry, and the applicable discount rates represent the rates that market participants would use for valuation of such intangible assets.

We make judgments about the recoverability of purchased intangible assets with finite lives whenever events or changes in circumstances indicate that an impairment may exist. Recoverability of purchased intangible assets with finite lives is measured by comparing the carrying amount of the asset to the future undiscounted cash flows the asset is expected to generate. We review indefinite-lived intangible assets for impairment annually or whenever events or changes in circumstances indicate that the asset might be impaired. If the asset is considered to be impaired, the amount of any impairment is measured as the difference between the carrying value and the fair value of the impaired asset. Assumptions and estimates about future values and remaining useful lives of our purchased intangible assets are complex and subjective. They can be affected by a variety of factors, including external factors such as industry and economic trends, and internal factors such as changes in our business strategy and our internal forecasts. Our ongoing consideration of all the factors described previously could result in impairment charges in the future, which could adversely affect our net income.

Income Taxes

We are subject to income taxes in the United States and numerous foreign jurisdictions. Our effective tax rates differ from the statutory rate, primarily due to the tax impact of state taxes, foreign operations, R&D tax credits, foreign-derived intangible income deductions, global intangible low-taxed income, tax audit settlements, nondeductible compensation, and international realignments. Our effective tax rate was 18.1% 16.7% and 23.2% 18.8% in the second quarter of fiscal 2024 and 2023, respectively, and 17.5% and 21.0% in the first quarter six months of fiscal 2024 and 2023, respectively.

Significant judgment is required in evaluating our uncertain tax positions and determining our provision for income taxes. Although we believe our reserves are reasonable, no assurance can be given that the final tax outcome of these matters will not be different from that which is reflected in our historical income tax provisions and accruals. We adjust these reserves in light of changing facts and circumstances, such as the closing of a tax audit or the refinement of an estimate. To the extent that the final tax outcome of these matters is different than the amounts recorded, such differences will impact the provision for income taxes in the period in which such determination is made. The provision for income taxes includes the impact of reserve provisions and changes to reserves that are considered appropriate, as well as the related net interest and penalties.

Significant judgment is also required in determining any valuation allowance recorded against deferred tax assets. In assessing the need for a valuation allowance, we consider all available evidence, including past operating results, estimates of future taxable income, and the feasibility of tax planning strategies. In the event that we change our determination as to the amount of deferred tax assets that can be realized, we will adjust our valuation allowance with a corresponding impact to the provision for income taxes in the period in which such determination is made.

Our provision for income taxes is subject to volatility and could be adversely impacted by earnings being lower than anticipated in countries that have lower tax rates and higher than anticipated in countries that have higher tax rates; by changes in the valuation of our deferred tax assets and liabilities; by changes to foreign-derived intangible income deduction, global intangible low-tax income and base erosion and anti-abuse tax, research and development capitalization and amortization, and corporate alternative minimum tax laws,

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regulations, or interpretations thereof; by expiration of or lapses in tax incentives; by transfer pricing adjustments, including the effect of acquisitions on our legal structure; by tax effects of nondeductible compensation; by tax costs related to intercompany realignments; by changes in accounting principles; or by changes in tax laws and regulations, treaties, or interpretations thereof, including changes to the taxation of earnings of our foreign subsidiaries, the deductibility of expenses attributable to foreign income, and the foreign tax credit rules. Significant judgment is required to determine the recognition and measurement attributes prescribed in the accounting guidance for uncertainty in income taxes. The Organisation for Economic Co-operation and Development (OECD), an international association comprised of 38 countries, including the United States, has made changes and is contemplating additional changes to numerous long-standing tax principles. There can be no assurance that these changes and any contemplated changes if finalized, once adopted by countries, will not have an adverse impact on our provision for income taxes. As a result of certain of our ongoing employment and capital investment actions and commitments, our income in certain countries was subject to reduced tax rates. Our failure to meet these commitments could adversely impact our provision for income taxes. In addition, we are subject to the continuous examination of our income tax returns by the Internal Revenue Service (IRS) and other tax authorities. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. There can be no assurance that the outcomes from these continuous examinations will not have an adverse impact on our operating results and financial condition.

Table of Contents

RESULTS OF OPERATIONS

Revenue

The following table presents the breakdown of revenue between product and service (in millions, except percentages):

	Three Months Ended October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent
Revenue:				
Product	$ 11,139	$10,245	$ 894	9 %
Percentage of revenue	*75.9 %*	*75.2 %*		
Service	3,529	3,387	142	4 %
Percentage of revenue	*24.1 %*	*24.8 %*		
Total	$ 14,668	$13,632	$1,036	8 %

	Three Months Ended January 27, 2024	January 28, 2023	Variance in Dollars		Variance in Percent	January 27, 2024	
Revenue:							
Product	$9,232	$ $10,155	$ $(923)	(9)	(9) %	$20,371	$ $20,400
Percentage of revenue							
Service	3,559	3,437	122		4 %	7,088	6,824
Percentage of revenue							
Total	$12,791	$13,592	$(801)		(6)%	$ 27,459	$ 27,224

We manage our business primarily on a geographic basis, organized into three geographic segments. Our revenue, which includes product and service for each segment, is summarized in the following table (in millions, except percentages):

	Three Months Ended October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent
Revenue:				
Americas	$ 9,022	$ 7,914	$1,108	14 %

	Three Months Ended January 27, 2024	January 28, 2023	Variance in Dollars		Variance in Percent		
Revenue:							
Americas	$7,510	$ $7,825	$ $(315)	(4)	(4) %	$16,532	$

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Percentage of revenue	*Percentage of revenue*	*61.5 %*	*58.0 %*										
EMEA	EMEA	3,664	3,675	(11)	— %								
EMEA													
EMEA						3,484		3,728		(244)		(7)%	7,148
Percentage of revenue	*Percentage of revenue*	*25.0 %*	*27.0 %*										
APJC													
APJC													
APJC	APJC	1,982	2,043	(61)	(3) %	1,798	2,039	2,039	(241)	(241)	(12)	(12)%	3,779
Percentage of revenue	*Percentage of revenue*	*13.5 %*	*15.0 %*										
Total	Total	$ 14,668	$13,632	$1,036	8 %								
Total													
Total						$12,791		$13,592		$(801)		(6)%	$ 27,459

Amounts may not sum and percentages may not recalculate due to rounding.

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

Total revenue increased decreased by 8% 6%. Product revenue increased decreased by 9% and service revenue increased by 4%. Our total revenue reflected growth in the Americas segment partially offset by a decline in the APJC segment. Total revenue in the EMEA segment was flat. declines across each of our geographic segments.

In addition to the impact of macroeconomic factors, including the IT spending environment and the level of spending by government entities, revenue by segment in a particular period may be significantly impacted by the timing of revenue recognition for complex transactions with multiple performance obligations. In addition, certain customers tend to make large and sporadic purchases, and the revenue related to these transactions may also be affected by the timing of revenue recognition, which in turn would impact the revenue of the relevant segment.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Total revenue increased by 1%. Product revenue was flat and service revenue increased by 4%. Our total revenue reflected growth in the Americas segment, partially offset by declines in the EMEA and APJC segments.

Table of Contents

Product Revenue by Segment

The following table presents the breakdown of product revenue by segment (in millions, except percentages):

		Three Months Ended												
		October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent									
		Three Months Ended											Three Months Ended	
		January 27, 2024					January 27, 2024		January 28, 2023		Variance in Dollars		Variance in Percent	
Product revenue:	Product revenue:													
Americas														
Americas														
Americas	Americas	$ 6,852	$ 5,846	$1,006	17 %	$5,346	$	$5,728	$	$(382)	(7)	(7) %	$12,197	$
Percentage of product revenue	*Percentage of product revenue*	*61.5 %*	*57.0 %*											
EMEA	EMEA	2,840	2,886	(46)	(2) %									
EMEA														
EMEA						2,638		2,917		(279)		(10)%	5,478	

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Percentage of product revenue	*Percentage of product revenue*	*25.5 %*	*28.2 %*											
APJC														
APJC														
APJC	APJC	1,448	1,513	(65)	(4) %	1,248	1,510	1,510	(262)	(262)	(17)	(17)%	2,696	3,(
Percentage of product revenue	*Percentage of product revenue*	*13.0 %*	*14.8 %*											
Total	Total	$ 11,139	$10,245	$ 894	9 %									
Total														
Total							$9,232		$10,155	$(923)		(9)%	$ 20,371	

Amounts may not sum and percentages may not recalculate due to rounding.

Americas

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022

Americas January 28, 2023

Product revenue in the Americas segment increased by 17%, with growth across all customer markets, led by the public sector market. From a country perspective, product revenue increased in the United States, Mexico and Brazil by 19%, 4% and 8%, respectively, partially offset by a decline in product revenue in Canada of 1%.

EMEA

Product revenue in the EMEA segment decreased by 2% 7%, driven by with declines in the service provider and cloud and the enterprise markets, partially offset by growth in the public sector market. From a country perspective, product revenue increased decreased in Germany the United States, Canada and Brazil by 2% 6%, 14% and 14%, respectively, partially offset by growth in product revenue declines in the United Kingdom and France by 5% and 20%, respectively. Mexico of 6%.

APJC Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Product revenue in the APJC Americas segment decreased increased by 4% 5%, driven with growth in the public sector market, partially offset by a decline in the service provider and cloud market, partially offset by growth in the public sector market. Product revenue in the enterprise market was flat. From a country perspective, product revenue increased in India the United States and Mexico by 14% 6% and 5%, respectively, partially offset by declines in product revenue in Canada and Brazil of 7% and 3%, respectively.

EMEA

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

Product revenue in the EMEA segment decreased by 10%, driven by declines in the enterprise and service provider and cloud markets, partially offset by growth in the public sector market. From a decline country perspective, product revenue decreased in Germany, the United Kingdom and France by 20%, 13% and 8%, respectively.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Product revenue in the EMEA segment decreased by 6%, driven by declines in the enterprise and service provider and cloud markets, partially offset by growth in the public sector market. From a country perspective, product revenue decreased in Germany, the United Kingdom and France by 10%, 9% and 14%, respectively.

APJC

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

Product revenue in the APJC segment decreased by 17%, with declines across each of 13% the customer markets. From a country perspective, product revenue decreased in Japan, 5% Australia, India and China by 19%, 7%, 27% and 39%, respectively.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Product revenue in the APJC segment decreased by 11%, with declines across each of the customer markets. From a country perspective, product revenue decreased in Japan, Australia, India and China by 16%, 6%, 7% and 39% in China.

, respectively.

Product Revenue by Category

In addition to the primary view on a geographic basis, we also prepare financial information related to product categories and customer markets for various purposes. Effective in the first quarter of fiscal 2024, we began reporting our product revenue in the following categories: Networking, Security, Collaboration, and Observability and conformed our product revenue for prior periods to the current period presentation.

The following table presents product revenue by category (in millions, except percentages):

Three Months Ended

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		October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent											
		Three Months Ended														
		January 27, 2024							January 27, 2024			January 28, 2023		Variance in Dollars		V… F…
Product Revenue	Product Revenue															
Networking																
Networking																
Networking	Networking	$ 8,822	$ 8,031	$ 791	10 %		$7,081	$	$8,092	$		$(1,011)	(12)		(12) %	$…
Security	Security	1,010	971	39	4 %	Security	973	943		943	30		30	3	3 %	
Collaboration	Collaboration	1,117	1,086	31	3 %	Collaboration	989	958		958	31		31	3	3 %	
Observability	Observability	190	157	33	21 %	Observability	188	162		162	26		26	16	16 %	
Total	Total	$ 11,139	$10,245	$ 894	9 %	Total	$9,232	$	$10,155	$		$(923)	(9)		(9) %	

Amounts may not sum and percentages may not recalculate due to rounding.

Networking

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022

Networking January 28, 2023

The Networking product category represents our core networking technologies of switching, routing, wireless, 5G, silicon, optics solutions and compute products. Revenue from the Networking revenue increased product category decreased by 10% 12%, or $791 million $1.0 billion. Revenue declined in both campus switching and data center switching, as well as in wireless and routed optical networking. The revenue declines in the Networking product category were primarily in the enterprise and service provider and cloud markets.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Revenue from the Networking product category decreased by 1%, or $219 million. Revenue grew in both campus switching and data center switching, primarily driven by strong growth in our Catalyst 9000 series and Nexus 9000 series offerings. The increase was partially offset by We experienced a revenue decline in wireless. enterprise routing, although we saw revenue growth in our SD-WAN offerings. The decrease in wireless was primarily driven by our WiFi-6 products and Meraki offerings. We also saw a revenue decline in routed optical networking, although we saw revenue growth in our Cisco 8000 series offerings.

Security

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

The Security product category consists of our Cloud and Application Security, Industrial Security, Network Security, and User and Device Security offerings. Revenue in our Security product category increased by 3%, or $30 million, primarily driven by double-digit growth in our Zero Trust offerings.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Revenue from the Security product category increased by 4%, or $39 million $70 million, primarily driven by growth in our Zero Trust and Threat Intelligence, and Detection and Response offerings.

Collaboration

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

The Collaboration product category consists of our Meetings, Collaboration Devices, Calling, Contact Center and CPaaS offerings. Revenue in our Collaboration product category increased by 3%, or $31 million, primarily driven by growth in our Collaboration Devices and Calling and Contact Center offerings, and partially offset by a decline in Meetings.

Observability Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

The Observability product category consists of Revenue from our full stack observability offerings. Revenue in our Observability Collaboration product category increased 21% by 3%, or $33 million $62 million, primarily driven by growth across the portfolio, including double-digit growth in our ThousandEyes Calling and AppDynamics offerings.

Collaboration Devices, partially offset by a decline in Meetings.

Observability

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

The Observability product category consists of our full stack observability offerings. Revenue in our Observability product category increased 16%, or $26 million, driven by growth across the portfolio, including double-digit growth in our ThousandEyes offerings.

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Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Revenue from the Observability product category increased by 18%, or $59 million, driven by primarily driven by growth in our ThousandEyes offerings.

Service Revenue by Segment

The following table presents the breakdown of service revenue by segment (in millions, except percentages):

		Three Months Ended				Three Months Ended				Three Months Ended	
		October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent	January 27, 2024	January 28, 2023	Variance in Dollars	Variance in Percent	January 27, 2024	
Service revenue:	Service revenue:										
Americas											
Americas											
Americas	Americas	$ 2,171	$2,067	$ 104	5 %	$2,164 $	$2,097 $	$ 67 3	3 %	$ 4,335 $	$4,164
Percentage of service revenue	*Percentage of service revenue*	*61.5 %*	*61.0 %*								
EMEA	EMEA	824	789	35	4 %						
EMEA											
EMEA						846	812	34	4 %	1,670	1,60
Percentage of service revenue	*Percentage of service revenue*	*23.3 %*	*23.3 %*								
APJC											
APJC											
APJC	APJC	534	530	4	1 %	550 529	529	21 21 4	4 %	1,084	1,059
Percentage of service revenue	*Percentage of service revenue*	*15.2 %*	*15.7 %*								
Total	Total	$ 3,529	$3,387	$ 142	4 %						
Total											
Total						$3,559	$3,437	$ 122	4 %	$ 7,088	$ 6,82

Amounts may not sum and percentages may not recalculate due to rounding.

Service revenue increased 4% in the first second quarter of fiscal 2024 compared with the first second quarter of fiscal 2023, primarily driven by revenue growth in our solution support maintenance business offerings and advisory services. services, partially offset by declines in our software support offerings. Service revenue increased across each of our geographic segments for the first second quarter of fiscal 2024.

Service revenue increased 4% in the first six months of fiscal 2024 compared to the first six months of fiscal 2023, primarily driven by revenue growth in our solution support offerings, advisory services and maintenance business, partially offset by declines in our software support offerings. Service revenue increased across each of our geographic segments.

Gross Margin

The following table presents the gross margin for products and services (in millions, except percentages):

	Three Months Ended				Three Months Ended			Three M
	AMOUNT		PERCENTAGE		AMOUNT		PERCENTAGE	AMOU
	October 28, 2023	October 29, 2022	October 28, 2023	October 29, 2022				

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		January 27, 2024							January 27, 2024		January 28, 2023	January 27, 2024	Janua 28, 202
Gross margin:	Gross margin:												
Product													
Product													
Product	Product	$ 7,182	$6,066	64.5 %	59.2 %		$5,789	$	$6,117	62.7	62.7 %	60.2 %	$12,9
Service	Service	2,375	2,280	67.3 %	67.3 %	Service	2,428	2,310	2,310	68.2	68.2 %	67.2 %	
Total	Total	$ 9,557	$8,346	65.2 %	61.2 %	Total	$8,217	$	$8,427	64.2	64.2 %	62.0 %	

Table of Contents

Product Gross Margin

The following table summarizes the key factors that contributed to the change in product gross margin percentage for the second quarter and first quarter six months of fiscal 2024, as compared with the corresponding prior year periods:

	Product Gross Margin Percentage
Fiscal 2023	59.2 %
Productivity (1)	3.1 %
Product pricing	1.2 %
Mix of products sold	1.2 %
Others	(0.2)%
Fiscal 2024	64.5 %

	Product Gross Margin Percentage	
	Three Months Ended	Six Months Ended
Fiscal 2023	60.2 %	59.7 %
Productivity (1)	2.6 %	2.7 %
Product pricing	(0.5)%	0.6 %
Mix of products sold	1.0 %	1.1 %
Others	(0.6)%	(0.4)%
Fiscal 2024	62.7 %	63.7 %

(1) Productivity includes overall manufacturing-related costs, such as component costs, warranty expense, provision for inventory, freight, logistics, shipment volume, and other items not categorized elsewhere.

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

Product gross margin increased by 5.3 2.5 percentage points primarily driven by productivity improvements, largely driven by lower freight, logistics and components costs. We also saw favorable pricing costs, and favorable impacts from product mix. These impacts were partially offset by pricing erosion.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Table of ContentsProduct gross margin increased by 4.0 percentage points primarily driven by productivity improvements, largely driven by lower freight, logistics and components costs, favorable product mix and favorable pricing.

CISCO SYSTEMS, INC.
MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (Continued)

Supply Constraints Impacts and Risks

In past periods, we took multiple actions in order to mitigate component shortages and address significant supply constraints. These Additionally, these supply constraints resulted in significant increased costs (i.e., component and other commodity costs, expedite fees, etc.) which had and may continue to have, a negative impact on our product gross margin and resulted in extended lead times for us and our customers. The mitigating actions we took included: partnering with several of our key suppliers utilizing our volume purchasing ability and extending supply coverage, including, in certain cases, revising supplier arrangements; paying and committing to pay in the future significantly higher costs for certain components; modifying our product designs in order to leverage alternate suppliers, where possible; and continually optimizing our inventory build and customer delivery plans, among others. These mitigating actions have resulted in increased inventory supply chain balances inventory purchase commitments, and inventory deposits and prepayments compared to prior fiscal years, which, historical levels. This in turn has increased our supply chain exposure, which could result in negative impacts to our product gross margin in

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future periods, including material excess and obsolete charges, if product demand significantly decreases for a sustained duration or we are unable to continue to mitigate the remaining supply chain exposures. We believe these mitigating actions have helped us to optimize our access to critical components and meet customer demand for our products as a result of the component shortages and significant supply constraints we saw in past periods. While these mitigating actions we have resulted in seen a decrease of in our overall inventory supply chain balances in recent periods, these balances continue to be higher as compared to prior fiscal years. historical levels.

Service Gross Margin

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

Our service gross margin percentage was flat compared to the first quarter of fiscal 2023 increased by 1.0 percentage points primarily due to higher sales volume and lower delivery costs, partially offset by higher headcount-related costs and delivery costs. unfavorable mix of service offerings.

Our service gross margin normally experiences some fluctuations due to various factors such as the timing of contract initiations in our renewals, our strategic investments in headcount, and the resources we deploy to support the overall service business. Other factors include the mix of service offerings, as the gross margin from our advanced services is typically lower than the gross margin from technical support services.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Service gross margin increased by 0.5 percentage points primarily due to higher sales volume and lower delivery costs, partially offset by higher headcount-related costs and unfavorable mix of service offerings.

Gross Margin by Segment

The following table presents the total gross margin for each segment (in millions, except percentages):

		Three Months Ended											
		AMOUNT		PERCENTAGE									
		October 28, 2023	October 29, 2022	October 28, 2023	October 29, 2022								
	Three Months Ended												Three Months Ende
	AMOUNT								AMOUNT		PERCENTAGE		
	January 27, 2024							January 27, 2024	January 28, 2023		January 27, 2024	January 28, 2023	
Gross margin:	Gross margin:												
Americas													
Americas	Americas	$5,968	$4,984	66.2 %	63.0 %	$	4,932	$	$ 4,920	65.7	65.7 %	62.9 %	$10,901
EMEA	EMEA	2,545	2,325	69.5 %	63.3 %	EMEA	2,373	2,469	2,469	68.1	68.1 %	66.2 %	
APJC	APJC	1,328	1,274	67.0 %	62.3 %	APJC	1,226	1,298	1,298	68.2	68.2 %	63.6 %	
Segment total	Segment total	9,841	8,582	67.1 %	63.0 %	Segment total	8,532	8,687	8,687	66.7	66.7 %	63.9 %	
Unallocated corporate items (1)	Unallocated corporate items (1)	(284)	(236)										
Total	Total	$9,557	$8,346	65.2 %	61.2 %								
Total													
Total							$8,217		$8,427		64.2 %	62.0 %	$

(1) The unallocated corporate items include the effects of amortization and impairments of acquisition-related intangible assets, share-based compensation expense, significant litigation settlements and other contingencies, charges related to asset impairments and restructurings, and certain other charges. We do not allocate these items to the gross margin for each segment because management does not include such information in measuring the performance of the operating segments.

Amounts may not sum and percentages may not recalculate due to rounding.

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

We experienced a gross margin percentage increase in our Americas segment due to positive impacts from productivity improvements, favorable product mix and favorable pricing, higher service gross margin, slightly offset by unfavorable product mix. pricing erosion.

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Gross margin percentage in our EMEA segment increased primarily due to positive impacts from productivity improvements, and, to a lesser extent, favorable product mix, partially offset by pricing erosion.

The APJC segment gross margin percentage increase was primarily due to positive impacts from productivity improvements and favorable pricing. product mix, partially offset by pricing erosion and lower service gross margin.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

The Americas segment had a gross margin percentage increase driven by positive impacts from productivity improvements, favorable pricing and, to a lesser extent, favorable product mix.

The gross margin percentage increase in our EMEA segment was primarily due to positive impacts from productivity improvements and favorable product mix, partially offset by pricing erosion.

The APJC segment gross margin percentage increase was driven by positive impacts from productivity improvements and favorable product mix, partially offset by pricing erosion.

Table of Contents

The APJC segment gross margin percentage increase was primarily due to positive impacts from productivity improvements, favorable product mix and favorable pricing, partially offset by lower service gross margin.

Research and Development ("R&D"), Sales and Marketing, and General and Administrative ("G&A") Expenses

R&D, sales and marketing, and G&A expenses are summarized in the following table (in millions, except percentages):

		Three Months Ended													
		October 28, 2023	October 29, 2022	Variance in Dollars	Variance in Percent										
	Three Months Ended											Three Months Ended			
	January 27, 2024							January 27, 2024		January 28, 2023		Variance in Dollars	Variance in Percent		Janu 27 202
Research and development	Research and development	$1,913	$1,781	$ 132	7 %	Research and development	$1,943	$	$	1,855	$	$ 88	5	5 %	$ 3,856 $
Percentage of revenue	*Percentage of revenue*	*13.0 %*	*13.1 %*												
Sales and marketing	Sales and marketing	2,506	2,391	115	5 %										
Sales and marketing															
Sales and marketing							2,458			2,384		74		3 %	4,964
Percentage of revenue	*Percentage of revenue*	*17.1 %*	*17.5 %*												
General and administrative															
General and administrative															
General and administrative	General and administrative	672	565	107	19 %	642	582		582	60		60	10	10 %	1,314 1,1
Percentage of revenue	*Percentage of revenue*	*4.6 %*	*4.1 %*												
Total	Total	$5,091	$4,737	$ 354	7 %										
Total															
Total							$5,043		$	4,821		$222		5 %	$10,134
Percentage of revenue	*Percentage of revenue*	*34.7 %*	*34.7 %*												

R&D Expenses

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022

R&D Expenses January 28, 2023

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R&D expenses increased due to higher headcount-related expenses, higher share-based compensation expense and higher discretionary spending, partially offset by lower acquisition headcount-related expenses and divestitures related costs. lower contracted services spending.

We continue to invest in R&D in order to bring a broad range of products to market in a timely fashion. If we believe that we are unable to enter a particular market in a timely manner with internally developed products, we may purchase or license technology from other businesses, or we may partner with or acquire businesses as an alternative to internal R&D.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

R&D expenses increased due to higher share-based compensation expense, higher discretionary spending and higher headcount-related expenses, partially offset by lower contracted services spending.

Sales and Marketing Expenses

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

Sales and marketing expenses increased primarily due to higher headcount-related expenses, share-based compensation expense, higher discretionary spending and higher headcount-related expenses, partially offset by lower contracted services spending.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Sales and marketing expenses increased primarily due to higher share-based compensation expense. expense, higher discretionary spending and higher headcount-related expenses, partially offset by lower contracted services spending.

G&A Expenses

Three Months Ended January 27, 2024 Compared with Three Months Ended January 28, 2023

G&A expenses increased due to higher headcount-related expenses, higher share-based compensation expense, higher discretionary spending, higher acquisition and divestitures related costs, higher headcount-related expenses, and higher contracted services spending.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

G&A expenses increased due to higher share-based compensation expense, higher discretionary spending, higher acquisition and divestitures related costs, higher headcount-related expenses, and higher contracted services spending.

Effect of Foreign Currency

In the first second quarter of fiscal 2024, foreign currency fluctuations, net of hedging, increased the combined R&D, sales and marketing, and G&A expenses by approximately $26 $23 million, or 0.6% 0.5%, compared with the second quarter of fiscal 2023.

In the first six months of fiscal 2024, foreign currency fluctuations, net of hedging, increased the combined R&D, sales and marketing, and G&A expenses by approximately $49 million, or 0.5%, compared with the first quarter six months of fiscal 2023.

Table of Contents

Amortization of Purchased Intangible Assets

The following table presents the amortization of purchased intangible assets including impairment charges (in millions):

		Three Months Ended					
		October 28, 2023	October 29, 2022				
		Three Months Ended		Three Months Ended		Six Months Ended	
		January 27, 2024		January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Amortization of purchased intangible assets:	Amortization of purchased intangible assets:						
Cost of sales							
Cost of sales							
Cost of sales	Cost of sales	$ 186	$ 158				
Operating expenses	Operating expenses	67	71				
Total	Total	$ 253	$ 229				

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For each of the second quarter and first quarter six months of fiscal 2024, the increase in amortization of purchased intangible assets was primarily due to amortization of purchased intangibles from our recent acquisitions, partially offset by certain purchased intangible assets that became fully amortized.

Restructuring and Other Charges

In the third quarter of fiscal 2024, we initiated a restructuring plan in order to realign the organization and enable further investment in key priority areas. This restructuring plan will impact approximately 5% of our global workforce. The total pretax charges are estimated to be approximately $800 million. We expect this plan to be substantially completed during the first half of fiscal 2025. We expect to reinvest substantially all of the cost savings from this restructuring plan in our key priority areas. As a result, the overall cost savings from this restructuring plan are not expected to be material for future periods.

In the second quarter of fiscal 2023, we announced a restructuring plan in order to rebalance the organization and enable further investment in key priority areas, of which approximately 5% of the global workforce would be impacted. areas. In connection with this restructuring plan, we incurred charges of $123 $12 million and $135 million in the second quarter and first quarter six months of fiscal 2024 and have incurred cumulative charges of $658 $670 million to date. We have substantially completed this restructuring plan in the first second quarter of fiscal 2024. We expect to reinvest substantially all of the cost savings from this restructuring plan in our key priority areas. As a result, the overall cost savings from this restructuring plan are not expected to be material for future periods.

Operating Income

The following table presents our operating income and our operating income as a percentage of revenue (in millions, except percentages):

	Three Months Ended	
	October 28, 2023	October 29, 2022
Operating income	$ 4,276	$3,540
Operating income as a percentage of revenue	29.2 %	26.0 %

	Three Months Ended		Six Months Ended	
	January 27, 2024	January 28, 2023	January 27, 2024	January 28, 2023
Operating income				
Operating income as a percentage of revenue	24.2 %	24.2 %	26.8 %	25.1 %

Three Months Ended January 27, 2024

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

Operating income decreased by 6%, and operating income as a percentage of revenue was flat. These changes resulted primarily from a revenue decrease partially offset by a gross margin percentage increase (driven by productivity improvements and favorable product mix, partially offset by pricing erosion).

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

Operating income increased by 21% 8%, and operating income as a percentage of revenue increased by 3.2 1.7 percentage points. These changes resulted primarily from a revenue increase and a gross margin percentage increase (driven by productivity improvements, favorable pricing product mix and favorable product mix) pricing), partially offset by higher restructuring and other charges. operating expenses.

Interest and Other Income (Loss), Net

Interest Income (Expense), Net The following table summarizes interest income and interest expense (in millions):

	Three Months Ended		
	October 28, 2023	October 29, 2022	Variance in Dollars

	Three Months Ended			Six Months Ended		
	January 27, 2024	January 28, 2023	Variance in Dollars	January 27, 2024	January 28, 2023	Variance in Dollars

Three Months Ended January 27, 2024

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Interest income	Interest income	$ 360	$ 169	$ 191
Interest expense	Interest expense	(111)	(100)	(11)
Interest income (expense), net	Interest income (expense), net	$ 249	$ 69	$ 180

For each of the second quarter and first quarter six months of fiscal 2024, the increase in interest income was driven by higher average balance of cash and available-for-sale debt investments and higher interest rates. The increase in interest expense was primarily driven by higher interest rates and issuance of commercial paper notes, partially offset by a lower average long-term debt balance.

Other Income (Loss), Net The components of other income (loss), net, are summarized as follows (in millions):

	Three Months Ended		
	October 28, 2023	October 29, 2022	Variance in Dollars
Gains (losses) on investments, net:			
Available-for-sale debt investments	$ (20)	$ (6)	$ (14)
Marketable equity investments	(46)	(21)	(25)
Privately held investments	(5)	(92)	87
Net gains (losses) on investments	(71)	(119)	48
Other gains (losses), net	(12)	(15)	3
Other income (loss), net	$ (83)	$ (134)	$ 51

Table of Contents

	Three Months Ended			Six Months Ended		
	January 27, 2024	January 28, 2023	Variance in Dollars	January 27, 2024	January 28, 2023	Variance in Dollars
Gains (losses) on investments, net:						
Available-for-sale debt investments	$ (23)	$ (3)	$ (20)	$ (43)	$ (9)	$ (34)
Marketable equity investments	62	19	43	16	(2)	18
Privately held investments	(150)	19	(169)	(155)	(73)	(82)
Net gains (losses) on investments	(111)	35	(146)	(182)	(84)	(98)
Other gains (losses), net	(28)	(24)	(4)	(40)	(39)	(1)
Other income (loss), net	$ (139)	$ 11	$ (150)	$ (222)	$ (123)	$ (99)

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

The increase change in our other income (loss), net was primarily driven by lower realized losses and impairment charges on our privately held investments and changes in net gains (losses) on available-for-sale debt investments and marketable equity investments.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

The change in our other income (loss), net was primarily driven by impairment charges on our privately held investments, lower realized losses on our privately held investments, and changes in net gain (losses) on available-for-sale debt investments and marketable equity investments.

Provision for Income Taxes

Three Months Ended October 28, 2023 January 27, 2024 Compared with Three Months Ended October 29, 2022 January 28, 2023

The provision for income taxes resulted in an effective tax rate of 18.1% 16.7% for the first second quarter of fiscal 2024 compared with 23.2% 18.8% for the first second quarter of fiscal 2023. The decrease in the effective tax rate was primarily due to an increase in share-based compensation windfall benefit and an increase in the benefit from income taxed at other than U.S. rates, partially offset by a decrease in foreign derived intangible income deduction benefit.

Six Months Ended January 27, 2024 Compared with Six Months Ended January 28, 2023

The provision for income taxes resulted in an effective tax rate of 17.5% for the first six months of fiscal 2024 compared with 21.0% for the first six months of fiscal 2023. The decrease in the effective tax rate was primarily due to an increase in the benefit from income taxed at other than U.S. rates and a decrease in net discrete tax expenses. expenses, partially offset by a decrease in foreign derived intangible income deduction benefit.

Table of Contents

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LIQUIDITY AND CAPITAL RESOURCES

The following sections discuss the effects of changes in our balance sheet, our capital allocation strategy including stock repurchase program and dividends, our contractual obligations, and certain other commitments and activities on our liquidity and capital resources.

Balance Sheet and Cash Flows

Cash and Cash Equivalents and Investments The following table summarizes our cash and cash equivalents and investments (in millions):

		October 28, 2023	July 29, 2023	Increase (Decrease)	January 27, 2024	July 29, 2023	Increase (Decrease)
Cash and cash equivalents	Cash and cash equivalents	$ 9,602	$10,123	$ (521)			
Available-for-sale debt investments	Available-for-sale debt investments	13,512	15,592	(2,080)			
Marketable equity securities	Marketable equity securities	409	431	(22)			
Total	Total	$23,523	$26,146	$ (2,623)			

The net decrease in cash and cash equivalents and investments in the first quarter six months of fiscal 2024 was primarily driven by cash returned to stockholders in the form of cash dividends of $1.6 billion $3.2 billion and repurchases of common stock of $1.3 billion $2.5 billion, net cash paid for acquisitions and divestitures of $0.9 billion, a net decrease of debt of $0.8 billion and capital expenditures of $0.1 billion $0.3 billion. These uses of cash were partially offset by issuance of commercial paper notes, net of $3.9 billion and net cash provided by operating activities of $2.4 billion $3.2 billion. The net cash provided by operating activities for the first quarter six months of fiscal 2024 includes a the fiscal 2023 federal tax payment of $2.8 billion that was deferred by the IRS as a result of the California floods. floods and the U.S. transition tax payment of $1.4 billion.

In addition to cash requirements in the normal course of business, on September 21, 2023, we announced our intent to acquire Splunk. Under the terms of the agreement, we have agreed to pay $157 per share in cash, representing approximately $28 billion in equity value. See further discussion of liquidity and future payments under "Liquidity and Capital Resource Requirements" below.

We maintain an investment portfolio of various holdings, types, and maturities. We classify our investments as short-term investments based on their nature and their availability for use in current operations. We believe the overall credit quality of our portfolio is strong, with our cash equivalents and our available-for-sale debt investment portfolio consisting primarily of high quality investment-grade securities. We believe that our strong cash and cash equivalents and investments position allows us to use our cash resources for strategic investments to gain access to new technologies, for acquisitions, for customer financing activities, for working capital needs, and for the repurchase of shares of common stock and payment of dividends as discussed below.

Securities Lending We periodically engage in securities lending activities with certain of our available-for-sale debt investments. These transactions are accounted for as a secured lending of the securities, and the securities are typically loaned only on an overnight basis. We require collateral equal to at least 102% of the fair market value of the loaned security and that the collateral be in the form of cash or liquid, high-quality assets. We engage in these secured lending transactions only with highly creditworthy counterparties, and the associated portfolio custodian has agreed to indemnify us against collateral losses. We did not experience any losses in connection with the secured lending of securities during the periods presented. As of October 28, 2023 January 27, 2024 and July 29, 2023, we had no outstanding securities lending transactions.

Free Cash Flow and Capital Allocation As part of our capital allocation strategy, we target to return a minimum of 50% of our free cash flow annually to our stockholders through cash dividends and repurchases of common stock.

We define free cash flow as net cash provided by operating activities less cash used to acquire property and equipment. The following table reconciles our net cash provided by operating activities to free cash flow (in millions):

		Three Months Ended			
		October 28, 2023	October 29, 2022		
	Six Months Ended			Six Months Ended	
	January 27, 2024			January 27, 2024	January 28, 2023
Net cash provided by operating activities	Net cash provided by operating activities	$2,371	$3,962		

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Acquisition of property and equipment	Acquisition of property and equipment	(134)	(176)
Free cash flow	Free cash flow	$2,237	$3,786

Table of Contents

We expect that cash provided by operating activities may fluctuate in future periods as a result of a number of factors, including fluctuations in our operating results, the rate at which products are shipped during the quarter (which we refer to as shipment linearity), the timing and collection of accounts receivable and financing receivables, inventory and supply chain management, deferred revenue, and the timing and amount of tax and other payments. We will pay approximately $1.4 billion of the U.S. transition tax in the second quarter of fiscal 2024. For additional discussion, see "Part II, Item 1A. Risk Factors" in this report.

We consider free cash flow to be a liquidity measure that provides useful information to management and investors because of our intent to return a stated percentage of free cash flow to stockholders in the form of dividends and stock repurchases. We further regard free cash flow as a useful measure because it reflects cash that can be used to, among other things, invest in our business, make strategic acquisitions, repurchase common stock, and pay dividends on our common stock, after deducting capital investments. A limitation of the utility of free cash flow as a measure of financial performance and liquidity is that the free cash flow does not represent the total increase or decrease in our cash balance for the period. In addition, we have other required uses of cash, including repaying the principal of our outstanding indebtedness. Free cash flow is not a measure calculated in accordance with U.S. generally accepted accounting principles and should not be regarded in isolation or as an alternative for net cash provided by operating activities or any other measure calculated in accordance with such principles, and other companies may calculate free cash flow in a different manner than we do.

The following table summarizes the dividends paid and stock repurchases (in millions, except per-share amounts):

		DIVIDENDS		STOCK REPURCHASE PROGRAM			
		DIVIDENDS					
Quarter Ended							
Quarter Ended							
Quarter Ended	Quarter Ended	Per Share	Amount	Shares	Weighted-Average Price per Share	Amount	TOTAL
		Per Share	Amount	Shares	Weighted-Average Price per Share	Amount	TOTAL
Fiscal 2024	Fiscal 2024						
January 27, 2024							
January 27, 2024							
January 27, 2024							
October 28, 2023	October 28, 2023	$ 0.39	$1,580	23	$ 54.53	$1,252	$2,832
Fiscal 2023	Fiscal 2023						
Fiscal 2023							
Fiscal 2023							
July 29, 2023							
July 29, 2023							
July 29, 2023	July 29, 2023	$ 0.39	$1,589	25	$ 50.49	$1,254	$2,843
April 29, 2023	April 29, 2023	$ 0.39	$1,593	25	$ 49.45	$1,259	$2,852
January 28, 2023	January 28, 2023	$ 0.38	$1,560	26	$ 47.72	$1,256	$2,816
October 29, 2022	October 29, 2022	$ 0.38	$1,560	12	$ 43.76	$ 502	$2,062

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On November 15, 2023 February 14, 2024, our Board of Directors declared a quarterly dividend of $0.39 $0.40 per common share to be paid on January 24, 2024 April 24, 2024, to all stockholders of record as of the close of business on January 4, 2024 April 4, 2024. Future dividends will be subject to the approval of our Board of Directors.

The remaining authorized amount for stock repurchases under this program is approximately $9.7 billion $8.4 billion, with no termination date.

Accounts Receivable, Net The following table summarizes our accounts receivable, net (in millions):

	October 28, 2023	July 29, 2023	Increase (Decrease)
Accounts receivable, net	$ 4,833	$ 5,854	$ (1,021)

	January 27, 2024	July 29, 2023	Increase (Decrease)
Accounts receivable, net	$ 4,884	$ 5,854	$ (970)

Our accounts receivable net, as of October 28, 2023 January 27, 2024 decreased by approximately 17%, as compared with the end of fiscal 2023, primarily due to timing and amount of product and service billings in the first second quarter of fiscal 2024 compared with the fourth quarter of fiscal 2023.

Table of Contents

Inventory Supply Chain The following table summarizes our inventories and inventory purchase commitments with contract manufacturers and suppliers (in millions):

		October 28, 2023	July 29, 2023	July 30, 2022	Variance vs. July 29, 2023	Variance vs. July 30, 2022	January 27, 2024	July 29, 2023	July 30, 2022	Variance vs. July 29, 2023	Variance vs. July 30, 2022
Inventories	Inventories	$3,342	$3,644	$ 2,568	$ (302)	$ 774					
Inventory purchase commitments	Inventory purchase commitments	$6,504	$7,253	$12,964	$ (749)	$(6,460)					
Inventory deposits and prepayments	Inventory deposits and prepayments	$1,032	$1,109	$ 1,484	$ (77)	$ (452)					

The following table summarizes our inventory purchase commitments with contract manufacturers and suppliers by period (in millions):

		October 28, 2023	July 29, 2023	July 30, 2022	Variance vs. July 29, 2023	Variance vs. July 30, 2022					
	January 27, 2024						January 27, 2024	July 29, 2023	July 30, 2022	Variance vs. July 29, 2023	Variance vs. July 30, 2022
Less than 1 year	Less than 1 year	$4,731	$5,270	$ 9,954	$ (539)	$(5,223)					
1 to 3 years	1 to 3 years	1,646	1,783	2,240	(137)	(594)					
3 to 5 years	3 to 5 years	127	200	770	(73)	(643)					
Total	Total	$6,504	$7,253	$12,964	$ (749)	$(6,460)					

Inventory as of October 28, 2023 January 27, 2024 decreased by 8% 12% and inventory purchase commitments with contract manufacturers and suppliers decreased by 10% 15% from our balances at the end of fiscal 2023. The combined decrease of 10% 14% in our inventory and inventory purchase commitments as compared with the end of fiscal 2023 was primarily due to fulfillment of customer demand as overall supply constraints improved and our continued efforts to work with contract manufacturers and suppliers to optimize our inventory and purchase commitment levels.

We increased began increasing our inventory supply chain balances starting in prior fiscal years 2021 in order to address significant supply constraints seen industry-wide. The increases were primarily due to arrangements to secure supply and pricing for certain product components and commitments with contract manufacturers to meet customer demand and to address extended lead times, as well as advance payments with suppliers to secure future supply, as a result of the supply constraints. As discussed, our risks of future material excess and obsolete inventory and related losses are further outlined in the Result of Operations—Product Gross Margin section.

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We purchase components from a variety of suppliers and use several contract manufacturers to provide manufacturing services for our products. During the normal course of business, in order to manage manufacturing lead times and help ensure adequate component supply, we enter into agreements with contract manufacturers and suppliers that allow them to procure inventory based upon criteria as defined by us or that establish the parameters defining our requirements and our commitment to securing manufacturing capacity.

Our inventory purchase commitments are for short-term product manufacturing requirements as well as for commitments to suppliers to secure manufacturing capacity. Certain of our inventory purchase commitments with contract manufacturers and suppliers relate to arrangements to secure supply and pricing for certain product components for multi-year periods. A significant portion of our reported purchase commitments arising from these agreements are firm, noncancelable, and unconditional commitments. In certain instances, these agreements allow us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed.

Inventory and supply chain management remain areas of focus as we balance the need to maintain supply chain flexibility to help ensure competitive lead times with the risk of inventory obsolescence because of supply constraints, rapidly changing technology and customer requirements. We believe the amount of our inventory and inventory purchase commitments is appropriate for our current and expected customer demand and revenue levels.

Financing Receivables and Guarantees The following table summarizes our financing receivables (in millions):

		October 28, 2023	July 29, 2023	Increase (Decrease)	January 27, 2024	July 29, 2023	Increase (Decrease)
Loan receivables, net	Loan receivables, net	$5,671	$5,857	$ (186)			
Lease receivables, net	Lease receivables, net	1,067	978	89			
Total, net	Total, net	$6,738	$6,835	$ (97)			

Financing Receivables Our financing arrangements include loans and leases. Our loan receivables include customer financing for purchases of our hardware, software and services (including technical support and advanced services), and also may include

additional funds for other costs associated with network installation and integration of our products and services. Lease receivables include sales-type leases. Arrangements related to leases are generally collateralized by a security interest in the underlying assets. Financing receivables decreased by 1%, was flat as compared with the end of fiscal 2023.

Financing Guarantees In the normal course of business, third parties may provide financing arrangements to our customers and channel partners under financing programs. The financing arrangements provided by third parties are related to leases and loans and typically have terms of up to three years. In some cases, we provide guarantees to third parties for these lease and loan arrangements. The financing arrangements to channel partners consist of revolving short-term financing provided by third parties, with payment terms generally ranging from 60 to 90 days. In certain instances, these financing arrangements result in a transfer of our receivables to the third party. The receivables are derecognized upon transfer, as these transfers qualify as true sales, and we receive payments for the receivables from the third party based on our standard payment terms.

The volume of channel partner financing was $8.2 billion $14.8 billion and $7.6 15.1 billion for the first quarter six months of fiscal 2024 and 2023, respectively. These financing arrangements facilitate the working capital requirements of the channel partners, and in some cases, we guarantee a portion of these arrangements. The balance of the channel partner financing subject to guarantees was $1.5 billion $1.3 billion and $1.7 billion as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively. We could be called upon to make payments under these guarantees in the event of nonpayment by the channel partners. Historically, our payments under these arrangements have been immaterial. Where we provide a guarantee, we defer the revenue associated with the channel partner financing arrangement in accordance with revenue recognition policies, or we record a liability for the fair value of the guarantees. In either case, the deferred revenue is recognized as revenue when the guarantee is removed. As of October 28, 2023 January 27, 2024, the total maximum potential future payments related to these guarantees was approximately $142 million $138 million, of which approximately $29 million $23 million was recorded as deferred revenue.

Borrowings

Senior Notes The following table summarizes the principal amount of our senior notes (in millions):

		Maturity Date	October 28, 2023	July 29, 2023	Maturity Date	January 27, 2024	July 29, 2023
Senior notes:	Senior notes:						
Fixed-rate notes:	Fixed-rate notes:						

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Fixed-rate notes:

Fixed-rate notes:

2.20%

2.20%

2.20%	2.20%	September 20, 2023	$ —	$ 750
3.625%	3.625%	March 4, 2024	1,000	1,000
3.50%	3.50%	June 15, 2025	500	500
2.95%	2.95%	February 28, 2026	750	750
2.50%	2.50%	September 20, 2026	1,500	1,500
5.90%	5.90%	February 15, 2039	2,000	2,000
5.50%	5.50%	January 15, 2040	2,000	2,000
Total	Total		$7,750	$8,500

Interest is payable semiannually on each class of the senior fixed-rate notes, each of which is redeemable by us at any time, subject to a make-whole premium. We were in compliance with all debt covenants as of October 28, 2023 January 27, 2024.

Commercial Paper We have a short-term debt financing program in which up to $10.0 billion is available through the issuance of Effective February 6, 2024, we increased our borrowing capacity under our commercial paper notes. program from $10.0 billion to $15.0 billion. We use the proceeds from the issuance of commercial paper notes for general corporate purposes. We had $3.9 billion and no commercial paper notes outstanding as of October 28, 2023 January 27, 2024 and July 29, 2023. , respectively. As of February 19, 2024, we had approximately $6.9 billion of commercial paper notes outstanding.

Credit Facility On May 13, 2021, we entered into a 5-year credit agreement with certain institutional lenders that provides for a $3.0 billion $3.0 billion unsecured revolving credit facility agreement, as amended on April 18, 2023. On February 2, 2024, we entered into an amended and restated 5-year $5.0 billion unsecured revolving credit agreement. The interest rate for the credit agreement is determined based on a formula using certain market rates. The credit agreement requires that is scheduled we comply with certain covenants, including that we maintain an interest coverage ratio (defined in the agreement as the ratio of consolidated EBITDA to expire on May 13, 2026. consolidated interest expense) of not less than 3.0 to 1.0. As of October 28, 2023 January 27, 2024, we were in compliance with the required interest coverage ratio and the other all associated covenants and we had not borrowed any funds under the our credit agreement. On April 18, 2023, we entered into an amendment to the credit agreement to replace the LIBOR index with Term SOFR.

Any advances under the 5-year credit agreement will accrue interest at rates that are equal to, based on certain conditions, either (a) with respect to loans in U.S. dollars, (i) Term SOFR (plus a 0.10% credit spread adjustment) or (ii) the Base Rate (to be defined as the highest of (x) the Bank of America prime rate, (y) the Federal Funds rate plus 0.50% and (z) Term SOFR plus 1.0%), (b) with respect to loans in Euros, EURIBOR, (c) with respect to loans in Yen, TIBOR and (d) with respect to loans in Pounds Sterling, SONIA, plus a margin that is based on our senior debt credit ratings as published by Standard & Poor's Financial Services, LLC and Moody's Investors Service, Inc., provided that in no event will the interest rate be less than 0.0%.

We will pay a quarterly commitment fee during the term of the 5-year credit agreement which may vary depending on our senior debt credit ratings. In addition, the 5-year credit agreement incorporates certain sustainability-linked metrics. Specifically, our applicable interest rate and commitment fee are subject to upward or downward adjustments if we achieve, or fail to achieve, certain specified targets based on two key performance indicator metrics: (i) social impact and (ii) foam reduction. We may also, upon the agreement of either the then-existing lenders or additional lenders not currently parties to the agreement, increase the commitments under the credit facility by up to an additional $2.0 billion and, at our option, extend the maturity of the facility for an additional year up to two times. The credit agreement requires that we comply with certain covenants, including that we maintain an interest coverage ratio as defined in the agreement.

Remaining Performance Obligations The following table presents the breakdown of remaining performance obligations (in millions):

		October 28, 2023	July 29, 2023	Increase (Decrease)	January 27, 2024	July 29, 2023	Increase (Decrease)
Product	Product	$16,011	$15,802	$ 209			
Service	Service	18,742	19,066	(324)			
Total	Total	$34,753	$34,868	$ (115)			

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Short-term RPO	Short-term RPO	$17,617	$17,910	$ (293)
Short-term RPO				
Short-term RPO				
Long-term RPO	Long-term RPO	17,136	16,958	178
Total	Total	$34,753	$34,868	$ (115)

Total remaining performance obligations as of October 28, 2023 were flat January 27, 2024 increased 2% compared to the end of fiscal 2023. Remaining performance obligations for product increased by 1% 3% compared to the end of fiscal 2023. Remaining performance obligations for service decreased increased by 2%. We expect approximately 51% 50% of total remaining performance obligations to be recognized as revenue over the next 12 months.

Deferred Revenue The following table presents the breakdown of deferred revenue (in millions):

		October 28, 2023	July 29, 2023	Increase (Decrease)	January 27, 2024	July 29, 2023	Increase (Decrease)
Product	Product	$11,689	$11,505	$ 184			
Service	Service	13,970	14,045	(75)			
Total	Total	$25,659	$25,550	$ 109			
Reported as:	Reported as:						
Current	Current	$13,812	$13,908	$ (96)			
Current							
Current							
Noncurrent	Noncurrent	11,847	11,642	205			
Total	Total	$25,659	$25,550	$ 109			

Total deferred revenue was flat increased 1% compared to the end of fiscal 2023. The increase in deferred product revenue of 2% 1% was primarily due to increased deferrals related to our recurring software offerings. The decrease increase in deferred service revenue of 1% was driven by the impact of contract renewals, partially offset by ongoing amortization of deferred service revenue.

Contractual Obligations

Transition Tax Payable

The income tax payable outstanding as of October 28, 2023 January 27, 2024 for the U.S. transition tax on accumulated earnings for foreign subsidiaries was $5.5 billion $4.1 billion. Approximately $1.4 billion $1.8 billion is payable in less than one year fiscal 2025 and $4.1 billion $2.3 billion is payable between 1 to 3 years. in fiscal 2026.

For our Contractual Obligations see our Annual Report on Form 10-K for the fiscal year ended July 29, 2023.

Other Commitments

In connection with our acquisitions, we have agreed to pay certain additional amounts contingent upon the achievement of certain agreed-upon technology, development, product, or other milestones or the continued employment with us of certain employees of the acquired entities. See Note 14 to the Consolidated Financial Statements.

We also have certain funding commitments primarily related to our privately held investments, some of which may be based on the achievement of certain agreed-upon milestones or are required to be funded on demand. investments. The funding commitments were $0.2 billion and $0.3 billion as of each of October 28, 2023 January 27, 2024 and July 29, 2023. , respectively.

In the ordinary course of business, we have privately held investments and provide financing to certain customers. Certain of these investments are considered to be variable interest entities. We evaluate on an ongoing basis our privately held investments and customer financings, and we have determined that as of October 28, 2023 January 27, 2024 there were no material unconsolidated variable interest entities.

On an ongoing basis, we reassess our privately held investments and customer financings to determine if they are variable interest entities and if we would be regarded as the primary beneficiary pursuant to the applicable accounting guidance. As a result of this ongoing assessment, we may be required to make additional disclosures or consolidate these entities. Because we may not control these entities, we may not have the ability to influence these events.

We provide financing guarantees, which are generally for various third-party financing arrangements extended to our channel partners. We could be called upon to make payments under these guarantees in the event of nonpayment by the channel partners. See the previous discussion of these financing guarantees under "Financing Receivables and Guarantees."

Liquidity and Capital Resource Requirements

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Based on past performance and current expectations, we believe our cash and cash equivalents, investments, cash generated from operations, and ability to access capital markets and committed credit lines will satisfy, through at least the next 12 months, our liquidity requirements, both in total and domestically, including the following: working capital needs (including inventory and other supply related payments), capital expenditures, investment requirements, stock repurchases, cash dividends, contractual obligations, commitments, principal and interest payments on debt, pending acquisitions, future customer financings, and other liquidity requirements associated with our operations. We recently announced our intent to acquire Splunk. Under the terms of the agreement, we have agreed to pay $157 per share in cash, representing approximately $28 billion in equity value. We anticipate this transaction will be financed with a combination of cash and debt. The acquisition is expected to close by late in the end of first quarter or early in the third second quarter of calendar year 2024, subject to regulatory approval and other customary closing conditions, including approval by Splunk shareholders. conditions. There are no other transactions, arrangements, or relationships with unconsolidated entities or other persons that are reasonably likely to materially affect the liquidity and the availability of, as well as our requirements for, capital resources.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Our financial position is exposed to a variety of risks, including interest rate risk, equity price risk, and foreign currency exchange risk.

Interest Rate Risk

Available-for-Sale Debt Investments We maintain an investment portfolio of various holdings, types, and maturities. Our primary objective for holding available-for-sale debt investments is to achieve an appropriate investment return consistent with preserving principal and managing risk. At any time, a sharp rise in market interest rates could have a material adverse impact on the fair value of our available-for-sale debt investment portfolio. Conversely, declines in interest rates, including the impact from lower credit spreads, could have a material adverse impact on interest income for our investment portfolio. We may utilize derivative instruments designated as hedging instruments to achieve our investment objectives. We had no outstanding hedging instruments for our available-for-sale debt investments as of October 28, 2023. Our available-for-sale debt investments are held for purposes other than trading. Our available-for-sale debt investments are not leveraged as of October 28, 2023 January 27, 2024. We monitor our interest rate and credit risks, including our credit exposures to specific rating categories and to individual issuers. We believe the overall credit quality of our portfolio is strong.

Financing Receivables As of October 28, 2023, our Our financing receivables had a carrying value of $6.7 billion, compared with $6.8 billion as of each of January 27, 2024 and July 29, 2023. As of October 28, 2023 January 27, 2024, a hypothetical 50 basis points ("BPS") increase or decrease in market interest rates would change the fair value of our financing receivables by a decrease or increase of approximately $0.1 billion, respectively.

Debt As of October 28, 2023 January 27, 2024, we had $7.8 billion in principal amount of senior fixed-rate notes outstanding. The carrying amount of the senior notes was $7.7 billion, and the related fair value based on market prices was $7.5 billion $7.9 billion. As of October 28, 2023 January 27, 2024, a hypothetical 50 BPS increase or decrease in market interest rates would change the fair value of the fixed-rate debt, excluding the $1.5 billion of hedged debt, by a decrease or increase of approximately $0.2 billion, respectively. However, this hypothetical change in interest rates would not impact the interest expense on the fixed-rate debt that is not hedged.

Equity Price Risk

Marketable Equity Investments The fair value of our marketable equity investments is subject to market price volatility. We hold equity securities for strategic purposes or to diversify our overall investment portfolio. These equity securities are held for purposes other than trading. The total fair value of our marketable equity securities was $409 million $426 million and $431 million as of October 28, 2023 January 27, 2024 and July 29, 2023, respectively.

Privately Held Investments These investments are recorded in other assets in our Consolidated Balance Sheets. The total carrying amount of our investments in privately held investments was $1.6 billion and $1.8 billion as of each of October 28, 2023 January 27, 2024 and July 29, 2023. , respectively. Some of these companies in which we invested are in the startup or development stages. These investments are inherently risky because the markets for the technologies or products these companies are developing are typically in the early stages and may never materialize. We could lose our entire investment in these companies. Our evaluation of privately held investments is based on the fundamentals of the businesses invested in, including, among other factors, the nature of their technologies and potential for financial return.

Foreign Currency Exchange Risk

Our foreign exchange forward contracts outstanding as of the respective period-ends are summarized in U.S. dollar equivalents as follows (in millions):

		October 28, 2023		July 29, 2023		January 27, 2024		July 29, 2023	
		Notional Amount	Fair Value	Notional Amount	Fair Value	Notional Amount	Fair Value	Notional Amount	Fair Value
Forward contracts:	Forward contracts:								
Purchased	Purchased	$3,083	$ (60)	$3,014	$ (33)				
Purchased									
Purchased									
Sold	Sold	$2,589	$ 58	$2,406	$ 31				

We conduct business globally in numerous currencies. The direct effect of foreign currency fluctuations on revenue has not been material because our revenue is primarily denominated in U.S. dollars. However, if the U.S. dollar strengthens relative to other currencies, such strengthening could have an indirect effect on our revenue to the extent it raises the cost of our products to non-U.S. customers and thereby reduces demand. A weaker U.S. dollar could have the opposite effect. However, the precise indirect effect of currency fluctuations is difficult to measure or predict because our revenue is influenced by many factors in addition to the impact of such currency fluctuations.

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Approximately 70% of our operating expenses are U.S.-dollar denominated. In the first quarter six months of fiscal 2024, foreign currency fluctuations, net of hedging, increased our combined R&D, sales and marketing, and G&A expenses by approximately $26

$49 million, or 0.6% 0.5%, compared with the first quarter six months of fiscal 2023. To reduce variability in operating expenses and service cost of sales caused by non-U.S.-dollar denominated operating expenses and costs, we may hedge certain forecasted foreign currency transactions with currency options and forward contracts. These hedging programs are not designed to provide foreign currency protection over long time horizons. In designing a specific hedging approach, we consider several factors, including offsetting exposures, significance of exposures, costs associated with entering into a particular hedge instrument, and potential effectiveness of the hedge. The gains and losses on foreign exchange contracts mitigate the effect of currency movements on our operating expenses and service cost of sales.

We also enter into foreign exchange forward and option contracts to reduce the short-term effects of foreign currency fluctuations on receivables and payables that are denominated in currencies other than the functional currencies of the entities. The market risks associated with these foreign currency receivables and payables relate primarily to variances from our forecasted foreign currency transactions and balances. We do not enter into foreign exchange forward or option contracts for speculative purposes.

Item 4. Controls and Procedures

Evaluation of disclosure controls and procedures. Based on our management's evaluation (with the participation of our principal executive officer and principal financial officer), as of the end of the period covered by this report, our principal executive officer and principal financial officer have concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, (the "Exchange Act")) are effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms and is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in internal control over financial reporting. There was no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during our first second quarter of fiscal 2024 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

For a description of our pending legal proceedings, see Note 14, "Commitments and Contingencies—(f) Legal Proceedings" in the Notes to Consolidated Financial Statements.

Item 1A. Risk Factors

Set forth below and elsewhere in this report and in other documents we file with the SEC are descriptions of the risks and uncertainties that could cause our actual results to differ materially from the results contemplated by the forward-looking statements contained in this report. The descriptions below include any material changes to and supersede the description of the risk factors affecting our business previously disclosed in "Part I, Item 1A. Risk Factors" of our Annual Report on Form 10-K for the fiscal year ended July 29, 2023.

Risks Related to our Business and Industry

Our operating results may fluctuate in future periods, which may adversely affect our stock price.

Our operating results have been in the past, and will continue to be, subject to quarterly and annual fluctuations as a result of numerous factors, some of which may contribute to more pronounced fluctuations in an uncertain global economic environment. These factors include:

- Fluctuations in demand for our products and services, especially with respect to service providers and Internet businesses, in part due to changes in the global economic environment
- Changes in sales and implementation cycles for our products and reduced visibility into our customers' spending plans and associated revenue
- Our ability to maintain appropriate inventory levels and purchase commitments
- Price and product competition in the communications and networking industries, which can change rapidly due to technological innovation and different business models from various geographic regions
- The overall movement toward industry consolidation among both our competitors and our customers
- The introduction and market acceptance of new technologies and products, and our success in new and evolving markets, and in emerging technologies, as well as the adoption of new standards
- The transformation of our business to deliver more software and subscription offerings where revenue is recognized over time
- Variations in sales channels, product costs, mix of products sold, or mix of direct sales and indirect sales
- The timing, size, and mix of orders from customers
- Manufacturing and customer lead times

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- Fluctuations in our gross margins, and the factors that contribute to such fluctuations
- The ability of our customers, channel partners, contract manufacturers and suppliers to obtain financing or to fund capital expenditures, especially during a period of global credit market disruption or in the event of customer, channel partner, contract manufacturer or supplier financial problems
- Actual events, circumstances, outcomes, and amounts differing from judgments, assumptions, and estimates used in determining the values of certain assets (including the amounts of related valuation allowances), liabilities, and other items reflected in our Consolidated Financial Statements
- How well we execute on our strategy and operating plans and the impact of changes in our business model that could result in significant restructuring charges
- Our ability to achieve targeted cost reductions
- Benefits anticipated from our investments
- Changes in tax laws or accounting rules, or interpretations thereof

As a consequence, operating results for a particular future period are difficult to predict, and, therefore, prior results are not necessarily indicative of results to be expected in future periods. Any of the foregoing factors, or any other factors discussed elsewhere herein, could have a material adverse effect on our business, results of operations, and financial condition that could adversely affect our stock price.

Our operating results may be adversely affected by unfavorable economic and market conditions and the uncertain geopolitical environment.

Challenging economic conditions, including rising inflation, or other changes, worldwide have from time to time contributed, and may continue to contribute, to slowdowns in the communications and networking industries at large, as well as in specific segments and markets in which we operate, resulting in: reduced demand for our products as a result of continued constraints on IT-related capital spending by our customers, particularly service providers, provider and cloud as well as enterprise and other customer markets as well; increased price competition for our products, not only from our competitors but also as a consequence of customers disposing of unutilized products; risk of excess and obsolete inventories; risk of supply constraints;

risk of excess facilities and manufacturing capacity; and higher overhead costs as a percentage of revenue and higher interest expense.

The global macroeconomic environment continues to be challenging and inconsistent. In certain prior periods, we have seen a broad-based weakening in the global macroeconomic environment which has impacted and could impact in the future certain of our markets. Additionally, instability in the global credit markets, the impact of uncertainty regarding global central bank monetary policy, the instability in the geopolitical environment in many parts of the world (including as a result of the on-going Russia and Ukraine war, the Israel-Hamas war, and China-Taiwan relations), the current economic challenges in China, including global economic ramifications of Chinese economic difficulties, and other disruptions may continue to put pressure on global economic conditions. If global economic and market conditions, or economic conditions in key markets, remain uncertain or deteriorate further, we may experience material impacts on our business, operating results, and financial condition.

Our operating results in one or more segments may also be affected by uncertain or changing economic conditions particularly germane to that segment or to particular customer markets within that segment. In addition, reports of certain intelligence gathering methods of the U.S. government could affect customers' perception of the products of IT companies which design and manufacture products in the United States. Trust and confidence in us as an IT supplier are critical to the development and growth of our markets. Impairment of that trust, or foreign regulatory actions taken in response to reports of certain intelligence gathering methods of the U.S. government, could affect the demand for our products from customers outside of the United States and could have an adverse effect on our operating results.

Our revenue for a particular period is difficult to predict, and a shortfall in revenue may harm our operating results.

As a result of a variety of factors discussed in this report, our revenue for a particular quarter is difficult to predict, especially in light of a challenging and inconsistent global macroeconomic environment (including as a result of the on-going Russia and Ukraine war and the Israel-Hamas war), and related market uncertainty. Our revenue may grow at a slower rate than in past periods, or decline as it did in the second quarter of fiscal 2024, and in certain prior periods. periods on a year-over-year basis. Our ability to meet financial expectations could also be adversely affected if the nonlinear sales pattern seen in some of our past quarters recurs in future periods. For example, we are currently seeing some slowing in orders from customers, particularly larger enterprise, service provider and cloud customers, as they implement elevated levels of product shipments from prior quarters, as discussed above. We have experienced periods of time during which shipments have exceeded net bookings or manufacturing issues have delayed shipments, leading to nonlinearity in shipping patterns. In addition to making it difficult to predict revenue for a particular period, nonlinearity in shipping can increase costs, because irregular shipment patterns result in periods of underutilized capacity and periods in which overtime expenses may be incurred, as well as in potential additional inventory management-related costs. In addition, to the extent that manufacturing issues and any related component shortages result in delayed shipments in the future, and particularly in periods in which our contract manufacturers are operating at higher levels of capacity, it is possible that revenue for a quarter could be adversely affected if such matters occur and are not remediated within the same quarter.

The timing of large orders can also have a significant effect on our business and operating results from quarter to quarter. From time to time, we receive large orders that have a significant effect on our operating results in the period in which the order is recognized as revenue. The timing of such orders is difficult to predict, and the timing of revenue recognition from such orders may affect period to period changes in revenue. As a result, our operating results could vary materially from quarter to quarter based on the receipt of such orders and their ultimate recognition as revenue. Longer than normal manufacturing lead times in the past have caused, and in the future could cause, some customers to place the same or a similar order multiple times within our various sales channels and to cancel the duplicative orders upon shipment or receipt of the product, or to also place orders with other vendors with shorter manufacturing lead times. Such multiple ordering (along with other factors) or risk of order cancellation may cause difficulty in predicting our revenue. Further, our efforts to improve manufacturing lead-time performance may result in more variability and less predictability in our revenue and operating results. In addition, when facing component supply-related challenges, we have increased our efforts in procuring components in order to meet customer expectations, which in turn contribute to an increase in inventory and purchase commitments. In prior periods, we increased our inventory and purchase commitments in light of the significant supply constraints seen industry-wide due to component shortages. These increases in our inventory and purchase commitments to shorten lead times could also lead to material excess and obsolete inventory charges or other negative impacts to our product gross margin in future periods if product demand significantly weakens for a sustained duration. Product demand conditions for future periods can be difficult to predict or may persist longer than anticipated. For example, we have seen a high level of uncertainty in the macroeconomic environment and our customers and third-party resellers continuing to implement shipments from recent prior quarters. As a result of these impacts, we saw a decline in product demand in the second quarter of fiscal 2024 and we believe these impacts may continue through at least the end of fiscal 2024. We plan our operating expense levels based primarily on forecasted revenue levels. These expenses and the impact of long-term commitments are relatively fixed in the short term. A shortfall in revenue could lead to operating results being below

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expectations because we may not be able to quickly reduce these fixed expenses in response to short-term business changes. Any of the above factors could have a material adverse impact on our operations and financial results. For additional information and a further discussion of impacts and risks related to our supply constraints, inventory commitments and our purchase commitments with contract manufacturers and suppliers, see “Results of Operations—Product Gross Margin—Supply Constraints Impacts and Risks”, “Liquidity and Capital Resources—Inventory Supply Chain” and Note 14 to the Consolidated Financial Statements.

Supply chain issues, including financial problems of contract manufacturers or component suppliers, or a shortage of adequate component supply or manufacturing capacity that increase our costs or cause a delay in our ability to fulfill orders, could have an adverse impact on our business and operating results, and our failure to estimate customer demand properly may result in excess or obsolete component supply, which could adversely affect our gross margins.

The fact that we do not own or operate the bulk of our manufacturing facilities and that we are reliant on our extended supply chain could have an adverse impact on the supply of our products and on our business and operating results. Financial problems of either contract manufacturers or component suppliers, reservation of manufacturing capacity at our contract manufacturers by other companies, and industry consolidation occurring within one or more component supplier markets, such as the semiconductor market, in each case, could either limit supply or increase costs.

A reduction or interruption in supply, including disruptions on our global supply chain, caused in part by public health emergencies, geopolitical tensions (including as a result of China-Taiwan relations) or a significant natural disaster (including as a result of climate change); a significant increase in the price of one or more components (including as a result of inflation); a failure to adequately authorize procurement of inventory by our contract manufacturers; a failure to appropriately cancel, reschedule, or adjust our requirements based on our business needs; or a decrease in demand for our products could materially adversely affect our business, operating results, and financial condition and could materially damage customer relationships. Furthermore, as a result of binding price or purchase commitments with suppliers, we may be obligated to purchase components at prices that are higher than those available in the current market. In the event that we become committed to purchase components at prices in excess of the current market price when the components are actually used, our gross margins could decrease. In addition, vendors may be under pressure to allocate product to certain customers for business, regulatory or political reasons, and/or demand changes in agreed pricing as a condition of supply. Although we have generally secured additional supply or taken other mitigation actions when significant disruptions have occurred, if similar situations occur in the future, they could have a material adverse effect on our business, results of operations, and financial condition.

Our growth and ability to meet customer demands depend in part on our ability to obtain timely deliveries of parts from our suppliers and contract manufacturers. We have experienced component shortages in the past, including shortages caused by manufacturing process issues, that have affected our operations, including longer than normal lead times. For example, in recent periods, there was a market shortage of semiconductor and other component supply which affected lead times, the cost of that supply, and our ability to meet customer demand for our products. Additionally, we may in the future experience a shortage of certain component parts as a result of our own manufacturing issues, manufacturing issues at our suppliers or contract manufacturers, capacity problems experienced by our suppliers or contract manufacturers including capacity or cost problems resulting from industry consolidation, or strong demand for those parts. Growth in the economy is likely to create greater pressures on us and our suppliers to accurately project overall component demand and component demands within specific product categories and to establish optimal component levels and manufacturing capacity, especially for labor-intensive components, components for which we purchase a substantial portion of the supply, or the re-ramping of manufacturing capacity for highly complex products. During periods of shortages or delays the price of components may increase, or the components may not be available at all, and we may also encounter shortages if we do not accurately anticipate our needs. We may not be able to secure enough components at reasonable prices or of acceptable quality to build new products in a timely manner in the quantities or configurations needed. Accordingly, our revenue and gross margins could suffer until other sources can be developed.

Our operating results would also be adversely affected if, anticipating greater demand than actually develops, we commit to the purchase of more components than we need, which is more likely to occur during periods of demand uncertainties such as we have experienced in recent periods and expect to continue to experience over the short- and medium-term, such as those we are experiencing with customers, particularly larger enterprise, service provider and cloud customers, as they implement elevated levels of product shipments from prior quarters, as discussed above. Although in many cases we use standard parts and components for our products, certain components are presently available only from a single source or limited sources, and a global economic downturn and related market uncertainty could negatively impact the availability of components from one or more of these sources, especially during times such as we have recently seen when there are supplier constraints based on labor and other actions taken during economic downturns. We may not be able to diversify sources in a timely manner, which could harm our ability to deliver products to customers and seriously impact present and future sales.

We believe that we may be faced with the following challenges in the future: new markets in which we participate may grow quickly, which may make it difficult to quickly obtain significant component capacity; as we acquire companies and new technologies, we may be dependent on unfamiliar supply chains or relatively small supply partners; and we face competition for certain components that are supply-constrained, from existing competitors, and companies in other markets.

Manufacturing capacity and component supply constraints could continue to be significant issues for us. We purchase components from a variety of suppliers and use several contract manufacturers to provide manufacturing services for our products. During the normal course of business, in order to improve manufacturing lead-time performance and to help ensure adequate component supply, we enter into agreements with contract manufacturers and suppliers that either allow them to procure inventory based upon criteria as defined by us or that establish the parameters defining our requirements. In certain instances, these agreements allow us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed. When facing component supply-related challenges we have increased our efforts in procuring components in order to meet customer expectations, which in turn contributes to an increase in inventory and purchase commitments. In past periods, we increased our inventory and purchase commitments in light of the supply constraints seen industry-wide due to component shortages. These increases in our inventory and purchase commitments to shorten lead times could also lead to material excess and obsolete inventory charges or other negative impacts to our product gross margin in future periods if we fail to anticipate customer demand properly and product demand significantly weakens for a sustained duration. Product demand conditions for future periods can be difficult to predict or may persist longer than anticipated. For example, we have seen a high level of uncertainty in the macroeconomic environment and our customers and third-party resellers continuing to implement shipments from recent prior quarters. As a result of these impacts, we saw a decline in product demand in the second quarter of fiscal 2024 and we believe these impacts may continue through at least the end of fiscal 2024. For additional information and a further discussion of impacts and risks related to our supply constraints, inventory commitments and our purchase commitments with contract manufacturers and suppliers, see “Results of Operations—Product Gross Margin—Supply Constraints Impacts and Risks”, “Liquidity and Capital Resources—Inventory Supply Chain” and Note 14 to the Consolidated Financial Statements.

We expect gross margin to vary over time, and our level of product gross margin may not be sustainable.

Although our product gross margin increased in the first quarter half of fiscal 2024 and in fiscal 2023, our level of product gross margins declined in fiscal 2022 and have declined in certain prior periods on a year-over-year basis, and could decline in future periods due to adverse impacts from various factors, including:

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- Changes in customer, geographic, or product mix, including mix of configurations within each product group
- Introduction of new products, including products with price-performance advantages, and new business models including the transformation of our business to deliver more software and subscription offerings
- Our ability to reduce production costs
- Entry into new markets or growth in lower margin markets, including markets with different pricing and cost structures, through acquisitions or internal development
- Sales discounts
- Increases in material, labor or other manufacturing-related costs (i.e. component costs, broker fees, expedited freight and overtime) or higher supply chain logistics costs, any of which could be significant, especially during periods of supply constraints for certain costs, such as those that have impacted the market for components, including semiconductors and memory in past periods, and which costs have in the past and may continue to be exacerbated by inflation
- Excess inventory, inventory holding charges, and obsolescence charges
- Changes in shipment volume
- The timing of revenue recognition and revenue deferrals
- Increased costs (including those caused by tariffs or economic conditions, including inflation), loss of cost savings or dilution of savings due to changes in component pricing or charges incurred due to inventory holding periods if parts ordering does not correctly anticipate product demand or if the financial health of either contract manufacturers or suppliers deteriorates
- Lower than expected benefits from value engineering
- Increased price competition, including competitors from Asia, especially from China
- Changes in distribution channels
- Increased warranty or royalty costs
- Increased amortization of purchased intangible assets, especially from acquisitions
- How well we execute on our strategy and operating plans

Changes in service gross margin may result from various factors such as changes in the mix between technical support services and advanced services, as well as the timing of technical support service contract initiations and renewals and the addition of personnel and other resources to support higher levels of service business in future periods.

Sales to the service provider and cloud market are especially volatile, and weakness in orders from this industry may harm our operating results and financial condition.

Sales to the service provider and cloud market have been characterized by large and sporadic purchases, especially relating to our router sales and sales of certain other Networking and Collaboration products, in addition to longer sales cycles. Service provider and cloud product orders significantly decreased during the first quarter half of fiscal 2024 and fiscal 2023 and we have experienced similar weakness in certain prior periods. Product orders from the service provider and cloud market could continue to decline and, as has been the case in the past, such weakness could persist over extended periods of time given fluctuating market conditions. Sales activity in this industry depends upon the stage of completion of expanding network infrastructures; the availability of funding; and the extent to which service providers and cloud customers are affected by regulatory, economic, and business conditions in the country of operations. Weakness in orders from this industry, including as a result of any slowdown in capital expenditures by service providers (which may be more prevalent during a global economic downturn, or periods of economic, political or regulatory uncertainty), could have a material adverse effect on our business, operating results, and financial condition. Such slowdowns may continue or recur in future periods. Orders from this industry could decline for many reasons other than the competitiveness of our products and services within their respective markets. For example, in the past, many of our service provider and cloud customers have been materially and adversely affected by slowdowns in the general economy, by overcapacity, by changes in the service provider and cloud market, by regulatory developments, and by constraints on capital availability, resulting in business failures and substantial reductions in spending and expansion plans. These conditions have materially harmed our business and operating results in the past, and could affect our business and operating results in any future period. Finally, service provider and cloud customers typically have longer implementation cycles; require a broader range of services, including design services; demand that vendors take on a larger share of risks; often require acceptance provisions, which can lead to a delay in revenue recognition; and expect financing from vendors. All these factors can add further risk to business conducted with service providers.

Disruption of or changes in our distribution model could harm our sales and margins.

If we fail to manage distribution of our products and services properly, or if our distributors' financial condition or operations weaken, our revenue and gross margins could be adversely affected. A substantial portion of our products and services is sold through our channel partners, and the remainder is sold through direct sales. Our channel partners include systems integrators, service providers, other third-party resellers, and distributors. Systems integrators and service providers typically sell directly to end users and often provide system installation, technical support, professional services, and other support services in addition to network equipment sales. Systems integrators also typically integrate our products into an overall solution, and a number of service providers are also systems integrators. Distributors stock inventory and typically sell to systems integrators, service providers, and other third-party resellers. We refer to sales through distributors as our two-tier system of sales to the end customer. If sales through indirect channels increase, this may lead to greater difficulty in forecasting the mix of our products and, to a degree, the timing of orders from our customers.

Historically, we have seen fluctuations in our gross margins based on changes in the balance of our distribution channels. There can be no assurance that changes in the balance of our distribution model in future periods would not have an adverse effect on our gross margins and profitability. Some factors could result in disruption of or changes in our distribution model, which could harm our sales and margins, including the following: competition with some of our channel partners, including through our direct sales, which may lead these channel partners to use other suppliers that do not directly sell their own products or otherwise compete with them; some of our channel partners may demand that we absorb a greater share of the risks that their customers may ask them to bear; some of our channel partners may have insufficient financial resources and may not be able to withstand changes and challenges in business conditions; and revenue from indirect sales could suffer if our distributors' financial condition or operations weaken. In addition, we depend on our channel partners globally to comply with applicable regulatory requirements. To the extent that they fail to do so, that could have a material adverse effect on our business, operating results, and financial condition. Further, sales of our products outside of agreed territories can result in disruption to our distribution channels.

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The markets in which we compete are intensely competitive, which could adversely affect our achievement of revenue growth.

The markets in which we compete are characterized by rapid change, converging technologies, and a migration to networking and communications solutions that offer relative advantages. These market factors represent a competitive threat to us. We compete with numerous vendors in each product category. The overall number of our competitors providing niche product solutions may increase. Also, the identity and composition of competitors may change as we increase our activity in newer product areas, and in key priority and growth areas. For example, as products related to network programmability, such as software defined networking (SDN) products, have become more prevalent, we have faced increased competition from companies that develop networking products based on commoditized hardware, referred to as “white box” hardware, to the extent customers decide to purchase those product offerings instead of ours. In addition, the growth in demand for technology delivered as a service enables new competitors to enter the market. As we continue to expand globally, we may see new competition in different geographic regions. In particular, we have experienced price-focused competition from competitors in Asia, especially from China, and we anticipate this will continue.

Some of our competitors compete across many of our product lines, while others are primarily focused in a specific product area. Barriers to entry are relatively low, and new ventures to create products that do or could compete with our products are regularly formed. In addition, some of our competitors may have greater resources, including technical and engineering resources, than we do. As we expand into new markets, we will face competition not only from our existing competitors but also from other competitors, including existing companies with strong technological, marketing, and sales positions in those markets. We also sometimes face competition from resellers and distributors of our products. Companies with which we have strategic alliances in some areas may be competitors in other areas, and this trend may increase. For example, the enterprise data center is undergoing a fundamental transformation arising from the convergence of technologies, including computing, networking, storage, and software, that previously were segregated. Due to several factors, including the availability of highly scalable and general purpose microprocessors, application specific integrated circuits offering advanced services, standards based protocols, cloud computing and virtualization, the convergence of technologies within the enterprise data center is spanning multiple, previously independent, technology segments. Also, some of our current and potential competitors for enterprise data center business have made acquisitions, or announced new strategic alliances, designed to position them to provide end-to-end technology solutions for the enterprise data center. As a result of all of these developments, we face greater competition in the development and sale of enterprise data center technologies, including competition from entities that are among our long-term strategic alliance partners. Companies that are strategic alliance partners in some areas of our business may acquire or form alliances with our competitors, thereby reducing their business with us.

The principal competitive factors in the markets in which we presently compete and may compete in the future include the ability to sell successful business outcomes; the ability to provide a broad range of networking and communications products and services; product performance; price; the ability to introduce new products, including providing continuous new customer value and products with price-performance advantages; the ability to reduce production costs; the ability to provide value-added features such as security, reliability, and investment protection; conformance to standards; market presence; the ability to provide financing; and disruptive technology shifts and new business models.

We also face competition from customers to which we license or supply technology and suppliers from which we transfer technology. The inherent nature of networking requires interoperability. As such, we must cooperate and at the same time compete with many companies. Any inability to effectively manage these complicated relationships with customers, suppliers, and strategic alliance partners could have a material adverse effect on our business, operating results, and financial condition and accordingly affect our chances of success.

If we do not successfully manage our strategic alliances, we may not realize the expected benefits from such alliances, and we may experience increased competition or delays in product development.

We have several strategic alliances with large and complex organizations and other companies with which we work to offer complementary products and services. These arrangements are generally limited to specific projects, the goal of which is generally to facilitate product compatibility and adoption of industry standards. There can be no assurance we will realize the expected benefits from these strategic alliances or from joint ventures. If successful, these relationships may be mutually beneficial and result in industry growth. However, alliances carry an element of risk because, in most cases, we must compete in some business areas with a company with which we have a strategic alliance and, at the same time, cooperate with that company in other business areas. Also, if these companies fail to perform or if these relationships fail to materialize as expected, we could suffer delays in product development or other operational difficulties. Joint ventures can be difficult to manage, given the potentially different interests of joint venture partners.

Inventory management relating to our sales to our two-tier distribution channel is complex, and excess inventory may harm our gross margins.

We must manage inventory relating to sales to our distributors effectively, because inventory held by them could affect our results of operations. Our distributors may increase orders during periods of product shortages, cancel orders if their inventory is too high, or delay orders in anticipation of new products. They also may adjust their orders in response to the supply of our products and the products of our competitors that are available to them, and in response to seasonal fluctuations in end-user demand. Our distributors are generally given business terms that allow them to return a portion of inventory, receive credits for changes in selling price, and participate in various cooperative marketing programs. Inventory management remains an area of focus as we balance the need to maintain strategic inventory levels to ensure competitive lead times against the risk of inventory obsolescence because of rapidly changing technology and customer requirements. When facing component supply-related challenges, we have increased our efforts in procuring components in order to meet customer expectations. If we ultimately determine that we have excess inventory, we may have to reduce our prices and write down inventory, which in turn could result in lower gross margins.

We depend upon the development of new products and services, and enhancements to existing products and services, and if we fail to predict and respond to emerging technological trends and customers’ changing needs, our operating results and market share may suffer.

The markets for our products and services are characterized by rapidly changing technology, evolving industry standards, new product and service introductions, and evolving methods of building and operating networks. Our operating results depend on our ability to develop and introduce new products and services into existing and emerging markets and to reduce the production costs of existing products. If customers do not purchase and/or renew our offerings our business could be harmed.

The process of developing new technology, including more programmable, flexible and virtual networks, and technology related to other market transitions— such as security, digital transformation and Internet of Things, and cloud— is complex and uncertain, and if we fail to accurately predict customers’ changing needs and emerging technological trends our business could be harmed. We must commit significant resources, including the investments we have been making in our strategic priorities to developing new products and services before knowing whether our investments will result in products and services the market will accept. In particular, if our model of the evolution of networking does not emerge as we believe it will, or if the industry does not evolve as we believe it will, or if our strategy for addressing this evolution is not successful, many of our strategic initiatives and investments may be of no or limited value. For example, if we do not introduce products related to network programmability, such as software-defined-networking products, in a

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timely fashion, or if product offerings in this market that ultimately succeed are based on technology, or an approach to technology, that differs from ours, such as, for example, networking products based on “white box” hardware, our business could be harmed. Similarly, our business could be harmed if we fail to develop, or fail to develop in a timely fashion, offerings to address other transitions, or if the offerings addressing these other transitions that ultimately succeed are based on technology, or an approach to technology, different from ours. In addition, our business could be adversely affected in periods surrounding our new product introductions if customers delay purchasing decisions to qualify or otherwise evaluate the new product offerings. We have also been transforming our business to move from selling individual products and services to selling products and services integrated into architectures and solutions, and we are seeking to meet the evolving needs of customers which include offering our products and solutions in the manner in which customers wish to consume them. As a part of this transformation, we continue to make changes to how we are organized and how we build and deliver our technology, including changes in our business models with customers. If our strategy for addressing our customer needs, or the architectures and solutions we develop do not meet those needs, or the changes we are making in how we are organized and how we build and deliver or technology is incorrect or ineffective, our business could be harmed.

Furthermore, we may not execute successfully on our vision or strategy because of challenges with regard to product planning and timing, technical hurdles that we fail to overcome in a timely fashion, or a lack of appropriate resources. This could result in competitors, some of which may also be our strategic alliance partners, providing those solutions before we do and loss of market share, revenue, and earnings. In addition, the growth in demand for technology delivered as a service enables new competitors to enter the market. The success of new products and services depends on several factors, including proper new product and service definition, component costs, timely completion and introduction of these products and services, differentiation of new products and services from those of our competitors, and market acceptance of these products and services. There can be no assurance that we will successfully identify new product and services opportunities, develop and bring new products and services to market in a timely manner, or achieve market acceptance of our products and services or that products, services and technologies developed by others will not render our products, services or technologies obsolete or noncompetitive. The products and technologies in our other product categories and key priority and growth areas may not prove to have the market success we anticipate, and we may not successfully identify and invest in other emerging or new products and services.

Changes in industry structure and market conditions could lead to charges related to discontinuances of certain of our products or businesses, asset impairments and workforce reductions or restructurings.

In response to changes in industry and market conditions, we may be required to strategically realign our resources and to consider restructuring, disposing of, or otherwise exiting businesses. Any resource realignment, or decision to limit investment in or dispose of or otherwise exit businesses, may result in the recording of special charges, such as inventory and technology-related write-offs, workforce reduction or restructuring costs, charges relating to consolidation of excess facilities, or claims from third parties who were resellers or users of discontinued products. Our estimates with respect to the useful life or ultimate recoverability of our carrying basis of assets, including purchased intangible assets, could change as a result of such assessments and decisions. Although in certain instances our supply agreements allow us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed, our loss contingencies may include liabilities for contracts that we cannot cancel with contract manufacturers and suppliers. Further, our estimates relating to the liabilities for excess facilities are affected by changes in real estate market conditions. Additionally, we are required to perform goodwill impairment tests on an annual basis and between annual tests in certain circumstances, and future goodwill impairment tests may result in a charge to earnings. From time to time we initiate restructuring plans. Our business may not be more efficient or effective than prior to implementation of such plans. Our restructuring activities, including any related charges and the impact of the related headcount restructurings, could have a material adverse effect on our business, operating results, and financial condition.

Over the long term we intend to invest in engineering, sales, service and marketing activities, and in key priority and growth areas, and these investments may achieve delayed, or lower than expected, benefits which could harm our operating results.

While we intend to focus on managing our costs and expenses, over the long term, we also intend to invest in personnel and other resources related to our engineering, sales, service and marketing functions as we realign and dedicate resources on key priority and growth areas. We also intend to focus on maintaining leadership in core networking and services. We are likely to recognize the costs associated with these investments earlier than some of the anticipated benefits, and the return on these investments may be lower, or may develop more slowly, than we expect. If we do not achieve the benefits anticipated from these investments (including if our selection of areas for investment does not play out as we expect), or if the achievement of these benefits is delayed, our operating results may be adversely affected.

A delay in the anticipated timing of, or the failure to complete, our acquisition of Splunk may cause us not to realize some or all of the anticipated benefits of the acquisition.

Consummation of the acquisition of Splunk is subject to the satisfaction or waiver of customary closing conditions, including without limitation (i) the adoption of the merger agreement by a majority of the holders of the outstanding shares of Splunk common stock, (ii) the approval of the merger under applicable antitrust and foreign investment regimes, (iii) (ii) the absence of any order, injunction or law prohibiting the merger, (iv) (iii) the accuracy of the other party’s representations and warranties, subject to certain standards set forth in the merger agreement, (v) (iv) compliance in all material respects with the other party’s obligations under the merger agreement, and (vi) (v) no material adverse effect to Splunk having occurred since the date of the merger agreement. There can be no assurance that these or other closing conditions will be satisfied on the timeline anticipated or 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 acquisition of Splunk is not completed, our stock price could decline be impacted to the extent it reflects an assumption that we will complete the acquisition. Furthermore, if the acquisition of Splunk is not completed, we may suffer other consequences that could adversely affect our business, results of operations and stock price, including incurring significant transaction costs that we would be unable to recover, negative publicity and damage to our reputation. Additionally, if the merger agreement is terminated under certain specified circumstances, including termination following an injunction arising in connection with certain antitrust laws, we would be required to pay Splunk a termination fee of approximately $1.5 billion. Furthermore, we anticipate this transaction will be financed with a combination of cash and debt. There can be no assurance that we will obtain financing on terms we find acceptable, and we may be required to finance a portion of the purchase price at interest rates higher than currently expected. Limitations on our ability to obtain financing, a reduction in our liquidity or an increase in our borrowing costs may adversely affect our business, operating results, and financial condition.

We have made and expect to continue to make acquisitions that could disrupt our operations and harm our operating results.

Our growth depends upon market growth, our ability to enhance our existing products, and our ability to introduce new products on a timely basis. We intend to continue to address the need to develop new products and enhance existing products through acquisitions of other companies, product lines, technologies, and personnel. Acquisitions involve numerous risks, including the following:

- Difficulties or delays in integrating the operations (including IT security), systems, technologies, products, and personnel of the acquired companies, particularly with companies that have large and widespread operations and/or complex products, such as Splunk
- Diversion of management’s attention from normal daily operations of the business and the challenges of managing larger and more widespread operations resulting from acquisitions
- Potential difficulties in completing projects associated with in-process research and development intangibles
- Difficulties in entering markets in which we have no or limited direct prior experience and where competitors in such markets have stronger market positions

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- Initial dependence on unfamiliar supply chains or relatively small supply partners
- Insufficient revenue to offset increased expenses associated with acquisitions
- The potential loss of key employees, customers, distributors, vendors and other business partners of the companies we acquire following and continuing after announcement of acquisition plans

Acquisitions have in the past and may in the future also cause us to:

- Issue common stock that would dilute our current stockholders' percentage ownership
- Use a substantial portion of our cash resources, or incur debt as we expect to do in connection with the acquisition of Splunk
- Significantly increase our interest expense, leverage and debt service requirements if we incur additional debt to pay for an acquisition
- Assume liabilities
- Record goodwill and intangible assets that are subject to impairment testing on a regular basis and potential periodic impairment charges
- Incur amortization expenses related to certain intangible assets
- Incur tax expenses related to the effect of acquisitions on our legal structure
- Incur large write-offs and restructuring and other related expenses
- Become subject to intellectual property or other litigation

Mergers and acquisitions of high-technology companies are inherently risky and subject to many factors outside of our control, and no assurance can be given that our previous or future acquisitions will be successful and will not materially adversely affect our business, operating results, or financial condition. Failure to manage and successfully integrate acquisitions could materially harm our business and operating results. Prior acquisitions have resulted in a wide range of outcomes, from successful introduction of new products and technologies to a failure to do so. Even when an acquired company has already developed and marketed products, there can be no assurance that product enhancements will be made in a timely fashion or that pre-acquisition due diligence will have identified all possible issues that might arise with respect to such products. In addition, our effective tax rate for future periods is uncertain and could be impacted by mergers and acquisitions. Risks described with respect to new product development also apply to acquisitions.

Entrance into new or developing markets exposes us to additional competition and will likely increase demands on our service and support operations.

As we focus on new market opportunities and key priority and growth areas, we compete with large telecommunications and other equipment suppliers as well as startup companies. Several of our competitors may have greater resources, including technical and engineering resources, than we do. Additionally, as customers in these markets complete infrastructure deployments, they may require greater levels of service, support, and financing than we have provided in the past, especially in emerging countries. Demand for these types of service, support, or financing contracts may increase in the future. There can be no assurance that we can provide products, service, support, and financing to effectively compete for these market opportunities. Further, entry into other markets has subjected and will subject us to additional risks, particularly to those markets, including the effects of general market conditions and reduced consumer confidence. For example, as we add direct selling capabilities globally to meet changing customer demands, we will face increased legal and regulatory requirements.

Product quality problems could lead to reduced revenue, gross margins, and net income.

We produce highly complex products that incorporate leading-edge technology, including both hardware and software. Software typically contains bugs that can unexpectedly interfere with expected operations. There can be no assurance that our pre-shipment testing programs will be adequate to detect all defects, either ones in individual products or ones that could affect numerous shipments, which might interfere with customer satisfaction, reduce sales opportunities, or affect gross margins. From time to time, we have had to replace certain components and provide remediation in response to the discovery of defects or bugs in products that we had shipped. There can be no assurance that such remediation, depending on the product involved, would not have a material impact. An inability to cure a product defect could result in the failure of a product line, temporary or permanent withdrawal from a product or market, damage to our reputation, inventory costs, or product reengineering expenses, any of which could have a material impact on our revenue, margins, and net income.

Due to the global nature of our operations, political or economic changes or other factors in a specific country or region could harm our operating results and financial condition.

We conduct significant sales and customer support operations in countries around the world. As such, our growth depends in part on our increasing sales into emerging countries. We also depend on non-U.S. operations of our contract manufacturers, component suppliers and distribution partners. Our business in emerging countries in the aggregate experienced a decline in orders in certain prior periods. We continue to assess the sustainability of any improvements in our business in these countries

and there can be no assurance that our investments in these countries will be successful. Our future results could be materially adversely affected by a variety of political, economic or other factors relating to our operations inside and outside the United States, any or all of which could have a material adverse effect on our operating results and financial condition, including the

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following: impacts from global central bank monetary policy; issues related to the political relationship between the United States and other countries that can affect regulatory matters, affect the willingness of customers in those countries to purchase products from companies headquartered in the United States or affect our ability to procure components if a government body were to deny us access to those components; government-related disruptions or shutdowns; the challenging and inconsistent global macroeconomic environment; foreign currency exchange rates; geopolitical tensions (including China-Taiwan relations); political or social unrest; economic instability or weakness or natural disasters in a specific country or region, including economic challenges in China and global economic ramifications of Chinese economic difficulties; environmental protection regulations (including new laws and regulations related to climate change); trade protection measures such as tariffs, and other legal and regulatory requirements, some of which may affect our ability to import our products to, export our products from, or sell our products in various countries or affect our ability to procure components; political considerations that affect service provider and government spending patterns; health or similar issues, including pandemics or epidemics; difficulties in staffing and managing international operations; and adverse tax consequences, including imposition of withholding or other taxes on our global operations.

Issues related to the development and use of artificial intelligence (AI) could give rise to legal and/or regulatory action, damage our reputation or otherwise materially harm of our business.

We currently incorporate AI technology in certain of our products and services and in our business operations. Our research and development of such technology remains ongoing. AI presents risks and challenges and may result in unintended consequences that could affect its further development or our and our customers' adoption and use of this technology. AI algorithms and training methodologies may be flawed. Additionally, AI technologies are complex and rapidly evolving, and we face significant competition in the market and from other companies regarding such technologies. Leveraging AI capabilities to potentially improve our internal functions and operations also presents further risks, costs, and challenges. While we aim to develop and use AI responsibly and attempt to identify and mitigate ethical and legal issues presented by its use, we may be unsuccessful in identifying or resolving issues before they arise.

The AI-related legal and regulatory landscape remains uncertain and may be inconsistent from jurisdiction to jurisdiction. Our obligations to comply with the evolving legal and regulatory landscape could entail significant costs or limit our ability to incorporate certain AI capabilities into our offerings. AI-related issues, deficiencies and/or failures could also (i) give rise to legal and/or regulatory action, including with respect to proposed legislation regulating AI in jurisdictions such as the European Union, and others, and as a result of new applications of existing data protection, privacy, intellectual property, and other laws; (ii) damage our reputation; or (iii) otherwise materially harm our business.

We are exposed to the credit risk of some of our customers and to credit exposures in weakened markets, which could result in material losses.

Most of our sales are on an open credit basis, with typical payment terms of 30 days in the United States, and, because of local customs or conditions, longer in some markets outside the United States. Beyond our open credit arrangements, we have also experienced demands for customer financing and facilitation of leasing arrangements. Our loan financing arrangements may include not only financing the acquisition of our products and services but also providing additional funds for other costs associated with network installation and integration of our products and services. Our exposure to the credit risks relating to our financing activities may increase if our customers are adversely affected by a global economic downturn or periods of economic uncertainty. There can be no assurance that programs we have in place to monitor and mitigate credit risks will be effective. In the past, there have been significant bankruptcies among customers both on open credit and with loan or lease financing arrangements, particularly among Internet businesses and service providers, causing us to incur economic or financial losses. There can be no assurance that additional losses will not be incurred. Although these losses have not been material to date, future losses, if incurred, could harm our business and have a material adverse effect on our operating results and financial condition. Additionally, to the degree that turmoil in the credit markets makes it more difficult for some customers to obtain financing, those customers' ability to pay could be adversely impacted, which in turn could have a material adverse impact on our business, operating results, and financial condition.

We are exposed to fluctuations in the market values of our portfolio investments and in interest rates; impairment of our investments could harm our earnings.

We maintain an investment portfolio of various holdings, types, and maturities. Our portfolio includes available-for-sale debt investments and equity investments, the values of which are subject to market price volatility. If such investments suffer market price declines, as we experienced with some of our investments in the past, we may recognize in earnings the decline in the fair value of our investments below their cost basis. Our privately held investments are subject to risk of loss of investment capital.

These investments are inherently risky because the markets for the technologies or products they have under development are typically in the early stages and may never materialize. We could lose our entire investment in these companies. For information regarding the market risks associated with the fair value of portfolio investments and interest rates, refer to the section titled "Quantitative and Qualitative Disclosures About Market Risk."

We are exposed to fluctuations in currency exchange rates that could negatively impact our financial results and cash flows.

Because a significant portion of our business is conducted outside the United States, we face exposure to adverse movements in foreign currency exchange rates, including emerging market currencies which can have extreme currency volatility. An increase in the value of the dollar could increase the real cost to our customers of our products in those markets outside the United States where we sell in dollars and a weakened dollar could increase the cost of local operating expenses and procurement of raw materials to the extent that we must purchase components in foreign currencies. These exposures may change over time as business practices evolve, and they could have a material adverse impact on our financial results and cash flows.

Failure to retain and recruit key personnel would harm our ability to meet key objectives.

Our success has always depended in large part on our ability to attract and retain highly skilled technical, managerial, sales, and marketing personnel. Competition for such personnel is intense, especially in the Silicon Valley area of Northern California and other major United States locations. Stock incentive plans are designed to reward employees for their long-term contributions and provide incentives for them to remain with us. Volatility or lack of positive performance in our stock price or equity incentive awards, or changes to our overall compensation program, including our stock incentive program, resulting from the management of share dilution and share-based compensation expense or otherwise,

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may also adversely affect our ability to retain key employees. As a result of one or more of these factors, we may increase our hiring in geographic areas outside the United States, which could subject us to additional geopolitical and exchange rate risk. The loss of services of any of our key personnel; the inability to retain and attract qualified personnel in the future; or delays in hiring required personnel, particularly in engineering and sales fields, could make it difficult to meet key objectives, such as timely and effective product introductions. In addition, companies in our industry whose employees accept positions with competitors frequently claim that competitors have engaged in improper hiring practices. We have received these claims in the past and may receive additional claims to this effect in the future.

Adverse resolution of litigation or governmental investigations may harm our operating results or financial condition.

We are a party to lawsuits in the normal course of our business. Additionally, in connection with the Russia and Ukraine war and our decision to stop business operations and orderly wind down our business in Russia and Belarus, there are existing claims and lawsuits in Russia, and the potential for future claims and lawsuits in Russia and/or Belarus, related to such decisions and regulatory requirements. In the event of an unfavorable resolution of any of these lawsuits, the potential outcome could include the seizure of our assets in Russia and/or Belarus, which, collectively, represents less than 0.1% of our total assets at the end of the first second quarter of fiscal 2024. Any litigation can be costly, lengthy, and disruptive to normal business operations. Moreover, the results of complex legal proceedings are difficult to predict. An unfavorable resolution of lawsuits or governmental investigations could have a material adverse effect on our business, operating results, or financial condition. For additional information regarding certain of the matters in which we are involved, see Note 14 to the Consolidated Financial Statements, subsection (f) “Legal Proceedings.”

Our operating results may be adversely affected and damage to our reputation may occur due to production and sale of counterfeit versions of our products.

As is the case with leading products around the world, our products are subject to efforts by third parties to produce counterfeit versions of our products. While we work diligently with law enforcement authorities in various countries to block the manufacture of counterfeit goods and to interdict their sale, and to detect counterfeit products in customer networks, and have succeeded in prosecuting counterfeiters and their distributors, resulting in fines, imprisonment and restitution to us, there can be no guarantee that such efforts will succeed. While counterfeiters often aim their sales at customers who might not have otherwise purchased our products due to lack of verifiability of origin and service, such counterfeit sales, to the extent they replace otherwise legitimate sales, could adversely affect our operating results.

Changes in our provision for income taxes or adverse outcomes resulting from examination of our income tax returns could adversely affect our results.

Our provision for income taxes is subject to volatility and could be adversely affected by earnings being lower than anticipated in countries that have lower tax rates and higher than anticipated in countries that have higher tax rates; by changes in the valuation of our deferred tax assets and liabilities; by changes to foreign-derived intangible income, global intangible low-tax income and base erosion and anti-abuse tax, research and development capitalization and amortization, and corporate alternative minimum tax laws, regulations, or interpretations thereof; by expiration of or lapses in tax incentives; by transfer pricing adjustments, including the effect of acquisitions on our legal structure; by tax effects of nondeductible compensation; by tax costs related to intercompany realignments; by changes in accounting principles; or by changes in tax laws and regulations, treaties, or interpretations thereof, including changes to the taxation of earnings of our foreign subsidiaries, the deductibility of expenses attributable to foreign income, and the foreign tax credit rules. Significant judgment is required to determine the recognition and measurement attribute prescribed in the accounting guidance for uncertainty in income taxes. The Organisation

for Economic Co-operation and Development (OECD), an international association comprised of 38 countries, including the United States, has made changes and is contemplating additional changes to numerous long-standing tax principles. There can be no assurance that these changes and any contemplated changes if finalized, once adopted by countries, will not have an adverse impact on our provision for income taxes. Further, as a result of certain of our ongoing employment and capital investment actions and commitments, our income in certain countries was subject to reduced tax rates. Our failure to meet these commitments could adversely impact our provision for income taxes. In addition, we are subject to the continuous examination of our income tax returns by the Internal Revenue Service and other tax authorities. We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. There can be no assurance that the outcomes from these continuous examinations will not have an adverse effect on our operating results and financial condition.

Our business and operations are especially subject to the risks of earthquakes, floods, and other natural catastrophic events (including as a result of global climate change).

Our corporate headquarters, including certain of our research and development operations are located in the Silicon Valley area of Northern California, a region known for seismic activity. Additionally, a certain number of our facilities are located near rivers that have experienced flooding in the past. Also certain of our customers, suppliers and logistics centers are located in regions that have been or may be affected by earthquake, tsunami and flooding or other weather-related activity which in the past has disrupted, and in the future could disrupt, the flow of supply chain components and delivery of products. In addition, global climate change may result in significant natural disasters occurring more frequently and/or with greater intensity, such as drought, wildfires, storms, sea-level rise, changing precipitation, and flooding. We have not to date experienced a material event as a result of these kinds of natural disasters; however, the occurrence of any such event in the future could have a material adverse impact on our business, operating results, and financial condition.

Terrorism, war, and other events may harm our business, operating results and financial condition.

The continued threat of terrorism and heightened security and military action in response thereto, or any other current or future acts of terrorism, war (such as the on-going Russia and Ukraine war and the Israel-Hamas war), and other events (such as economic sanctions, and trade restrictions and reactions of the governments, markets and the general public, including those related to the on-going Russia and Ukraine war) may cause further disruptions to the economies of the United States and other countries and create further uncertainties or could otherwise negatively impact our business, operating results, and financial condition. Likewise, events such as loss of infrastructure and utilities services such as energy, transportation, or telecommunications could have similar negative impacts. To the extent that such disruptions or uncertainties result in delays or cancellations of customer orders or the manufacture or shipment of our products, our business, operating results, and financial condition could be materially and adversely affected.

There can be no assurance that our operating results and financial condition will not be adversely affected by our incurrence of debt.

As of the end of the first second quarter of fiscal 2024, we have senior unsecured notes outstanding in an aggregate principal amount of $7.8 billion that mature at specific dates from calendar year 2024 through 2040. We have also established a commercial paper program under which we may issue short-term, unsecured commercial paper notes on a private placement basis up to a maximum aggregate amount outstanding at any time of $10.0 billion, $15.0 billion, and we had no $3.9 billion in commercial paper notes outstanding under this program as of October 28, 2023 January 27, 2024. There can be no assurance that our incurrence of this debt or any future debt, including any additional debt incurred to finance the acquisition of Splunk or to refinance maturing debt, will be a better means of providing liquidity to us than would our use of our existing cash resources. Further, we cannot be assured that our maintenance of this indebtedness or incurrence of future indebtedness will not adversely affect our operating results or financial condition. In addition,

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changes by any rating agency to our credit rating can negatively impact the value and liquidity of both our debt and equity securities, as well as the terms upon which we may borrow under our commercial paper program or future debt issuances.

Our reputation and/or business could be negatively impacted by ESG matters and/or our reporting of such matters.

There is an increasing focus from regulators, certain investors, and other stakeholders concerning environmental, social, and governance ("ESG") matters, both in the United States and internationally. We communicate certain ESG-related initiatives, goals, and/or commitments regarding environmental matters, diversity and inclusion, responsible sourcing and social investments, and other matters, in our annual Purpose Report, on our website, in our filings with the SEC, and elsewhere. These initiatives, goals, or commitments could be difficult to achieve and costly to implement. For example, in September 2021, we announced our goal to achieve net zero across all scopes of greenhouse gas emissions by 2040, the achievement of which relies, in large part, on the accuracy of our estimates and assumptions around the enhanced power efficiency of our products, the adoption of renewable energy at customer and supplier sites, and the adoption of certain of our products and services by our customers. We could fail to achieve, or be perceived to fail to achieve, our 2040 net zero goal or other ESG-related initiatives, goals, or commitments. In addition, we could be criticized for the timing, scope or nature of these initiatives, goals, or commitments, or for any revisions to them. To the extent that our required and voluntary disclosures about ESG matters increase, we could be criticized for the accuracy, adequacy, or completeness of such disclosures. Our actual or perceived failure to achieve our ESG-related initiatives, goals, or commitments could negatively impact our reputation or otherwise materially harm our business.

Risks Related to Intellectual Property

Our proprietary rights may prove difficult to enforce.

We generally rely on patents, copyrights, trademarks, and trade secret laws to establish and maintain proprietary rights in our technology and products. Although we have been issued numerous patents and other patent applications are currently pending, there can be no assurance that any of these patents or other proprietary rights will not be challenged, invalidated, or circumvented or that our rights will, in fact, provide competitive advantages to us. Furthermore, many key aspects of networking technology are governed by industrywide standards, which are usable by all market entrants. In addition, there can be no assurance that patents will be issued from pending applications or that claims allowed on any patents will be sufficiently broad to protect our technology. In addition, the laws of some foreign countries may not protect our proprietary rights to the same extent as do the laws of the United States. The outcome of any actions taken in these foreign countries may be different than if such actions were determined under the laws of the United States. Although we are not dependent on any individual patents or group of patents for particular segments of the business for which we compete, if we are unable to protect our proprietary rights to the totality of the features (including aspects of products protected other than by patent rights) in a market, we may find ourselves at a competitive disadvantage to others who need not incur the substantial expense, time, and effort required to create innovative products that have enabled us to be successful.

We may be found to infringe on intellectual property rights of others.

Third parties, including customers, have in the past and may in the future assert claims or initiate litigation related to exclusive patent, copyright, trademark, and other intellectual property rights to technologies and related standards that are relevant to us. These assertions have increased over time as a result of our growth and the general increase in the pace of patent claims assertions, particularly in the United States. Because of the existence of a large number of patents in the networking field, the secrecy of some pending patents, and the rapid rate of issuance of new patents, it is not economically practical or even possible to determine in advance whether a product or any of its components infringes or will infringe on the patent rights of others. The asserted claims and/or initiated litigation can include claims against us or our manufacturers, suppliers, or customers, alleging infringement of their proprietary rights with respect to our existing or future products or components of those products. Regardless of the merit of these claims, they can be time-consuming, result in costly litigation and diversion of technical and management personnel, or require us to develop a non-infringing technology or enter into license agreements. Where claims are made by customers, resistance even to unmeritorious claims could damage customer relationships. There can be no assurance that licenses will be available on acceptable terms and conditions, if at all, or that our indemnification by our suppliers will be adequate to cover our costs if a claim were brought directly against us or our customers. Furthermore, because of the potential for high court awards that are not necessarily predictable, it is not unusual to find even arguably unmeritorious claims settled for significant amounts. If any infringement or other intellectual property claim made against us by any third party is successful, if we are required to indemnify a customer with respect to a claim against the customer, or if we fail to develop non-infringing technology or license the proprietary rights on commercially reasonable terms and conditions, our business, operating results, and financial condition could be materially and adversely affected. For additional information regarding our indemnification obligations, see Note 14(e) to the Consolidated Financial Statements contained in this report. Our exposure to risks associated with the use of intellectual property may be increased as a result of acquisitions, as we have a lower level of visibility into the development process with respect to such technology or the care taken to safeguard against infringement risks. Further, in the past, third parties have made infringement and similar claims after we have acquired technology that had not been asserted prior to our acquisition.

We rely on the availability of third-party licenses.

Many of our products are designed to include software or other intellectual property licensed from third parties. It may be necessary in the future to seek or renew licenses relating to various aspects of these products. There can be no assurance that the necessary licenses would be available on acceptable terms, if at all. The inability to obtain certain licenses or other rights or to obtain such licenses or rights on favorable terms, or the need to engage in litigation regarding these matters, could have a material adverse effect on our business, operating results, and financial condition. Moreover, the inclusion in our products of software or other intellectual property licensed from third parties on a nonexclusive basis could limit our ability to protect our proprietary rights in our products.

Risks Related to Cybersecurity, Privacy, and Regulatory Requirements

Cyber attacks, data breaches or other incidents may disrupt our operations, harm our operating results and financial condition, and damage our reputation or otherwise materially harm our business; and cyber attacks, data breaches or other incidents on our customers' or third-party providers' networks, in third-party products we use, or in cloud-based services provided to, by, or enabled by us, could result in claims of liability against us, give rise to legal and/or regulatory action, damage our reputation or otherwise materially harm our business.

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We experience cyber attacks and other attempts to gain unauthorized access to our products, services, and IT environment (as defined below) on a regular basis, and we anticipate continuing to be subject to such attempts as cyber attacks become increasingly sophisticated and more difficult to predict and protect against. Despite our implementation of security measures, (i) our products and services, and (ii) the servers, data centers, and cloud-based solutions on which our and third-party data is are stored or processed (including servers, data centers and cloud-based solutions operated by third parties on which we rely) (collectively, our “IT environment”), are vulnerable to cyber attacks, incidents, data breaches, malware, inadvertent error, disruptions, failures, tampering or other theft or misuse, including by employees, contingent workers, malicious actors, or nation-states or their agents, (which cyber attack or related activity may intensify during periods of diplomatic or armed conflict). Further, a cyber attack or other incident could go undetected and persist in our environments for extended periods. Cyber-related events have caused, and in the future could result in, compromise to, or the disruption of access to, the operation of our products, services, and IT environment or those of our customers or third-party providers we rely on, or result in confidential information stored on our systems, our customers’ systems, or other third-party systems being improperly accessed, processed, disclosed now or in the future, or be lost or stolen. We have not to date experienced a material event related to a cybersecurity matter; however, the occurrence of any such event in the future could subject us to liability to our customers, data subjects, suppliers, business partners, employees, and others, give rise to legal and/or regulatory action, could damage our reputation or could otherwise materially harm our business, any of which could have a material adverse effect on our business, operating results, and financial condition. Efforts to limit the ability of malicious actors to disrupt the operations of the Internet or undermine our own security efforts are costly to implement and may not be successful. Breaches of security in our customers’ or third-party providers’ networks, in third-party products we use, or in cloud-based services provided to, by, or enabled by us, regardless of whether the breach is attributable to a vulnerability in our products or services, a failure by us to timely mitigate or apply a security fix for third-party products we use that are found vulnerable, or a failure to maintain the digital security infrastructure or security tools that protect the integrity of our products, services, and IT environment, could, in each case, result in claims of liability against us, damage our reputation or otherwise materially harm our business.

Vulnerabilities and critical security defects, prioritization decisions regarding remedying vulnerabilities or security defects, failure of third-party providers to remedy vulnerabilities or security defects, or customers not deploying security updates in a timely manner or deciding not to upgrade products, services or solutions could result in claims of liability against us, damage our reputation, or otherwise materially harm our business.

The products and services we sell to customers, and our cloud-based solutions, inevitably contain vulnerabilities or security defects, despite our efforts to prevent and detect them, which have not been remedied and cannot be disclosed without compromising security. We also make prioritization decisions in determining which vulnerabilities or security defects to fix and the timing of these fixes. Even when we prioritize a vulnerability or security defect, in certain instances it has taken, and in the future could take, time for us to develop a remedy. In addition, workarounds or other mitigation efforts in certain instances have not been, and in the future may not be, available or sufficient to protect customers prior to a security update being made available. Vulnerabilities can persist even after we have issued security updates if customers have not installed the most recent updates, or if the attackers exploited the vulnerabilities before a security update is applied to install additional malware to further compromise customers’ systems. Additionally, customers may also need to test security updates before they can be deployed which can delay implementation. When customers do not deploy security updates in a timely manner, use products that are end of life and no longer receive security updates, or decide not to upgrade to the latest versions of our products, services or cloud-based solutions containing the security update, they may be are left vulnerable. In addition, we rely on third-party providers of software and cloud-based services on which our and third-party data is stored or processed, and we cannot control the timing at which third-party providers remedy vulnerabilities, which could leave us vulnerable. Vulnerabilities and security defects, prioritization errors in remedying vulnerabilities or security defects, failure of third-party providers to remedy vulnerabilities or security defects, or customers not deploying security updates in a timely manner or deciding not to upgrade products, services or solutions could result in claims of liability against us, damage our reputation or otherwise materially harm our business.

Our actual or perceived failure to adequately protect personal data could result in claims of liability against us, damage our reputation or otherwise materially harm our business.

Global privacy and data protection-related laws and regulations are evolving, extensive, and complex. Compliance with these laws and regulations is difficult and costly. In addition, evolving legal requirements restricting or controlling the collection, processing, or cross-border transmission of data, including for regulation of cloud-based services, could materially affect our customers’ ability to use, and our ability to sell, our products and services. The interpretation and application of these laws in some instances is uncertain, and our legal and regulatory obligations are subject to frequent changes. For example, the European Union’s (“EU”) General Data Protection Regulation (“GDPR”) applies to our activities conducted from an establishment in the EU or related to products and services offered in the EU and imposes a range of compliance obligations regarding the handling of personal data. Additionally, we are subject to California’s Consumer Privacy Act and other laws, regulations and obligations that relate to the handling of personal data. Our actual or perceived failure to comply with applicable laws and regulations or other obligations relating to personal data, or to protect personal data from unauthorized access, use, or other processing, could subject us to liability to our customers, data subjects, suppliers, business partners, employees, and others, give rise to legal and/or regulatory action, could damage our reputation or could otherwise materially harm our business, any of which could have a material adverse effect on our business, operating results, and financial condition.

Our business, operating results and financial condition could be materially harmed by evolving regulatory uncertainty or obligations applicable to our products and services.

Changes in regulatory requirements applicable to the industries and sectors in which we operate, in the United States and in other countries, could materially affect the sales and use of our products and services. In particular, economic sanctions and changes to export and import control requirements have impacted and may continue to impact our ability to sell and support our products and services in certain jurisdictions. In addition, changes in telecommunications regulations could impact our service provider customers’ purchase of our products and services, and they could also impact sales of our own regulated offerings. Additional areas of uncertainty that could impact sales of our products and services include laws, regulations, or customer procurement requirements related to encryption technology, data, artificial intelligence, privacy, cybersecurity, environmental sustainability (including climate change), human rights, product certification, product accessibility, country of origin, and national security controls applicable to our supply chain. Changes in regulatory requirements in any of these areas or our actual or perceived failure to comply with applicable laws and regulations or other obligations relating to these areas could have a material adverse effect on our business, operating results, and financial condition.

Risks Related to Ownership of Our Stock

Our stock price may be volatile.

Historically, our common stock has experienced substantial price volatility, particularly as a result of variations between our actual financial results and the published expectations of analysts and as a result of announcements by our competitors and us. Furthermore, speculation in the press or investment community about our strategic position, financial condition, results of operations, business, security of our products, or significant transactions can cause changes in our stock price. In addition, the stock market has experienced extreme price and volume fluctuations that have affected the market price of many technology companies, in particular, and that have often been unrelated to the operating performance of these companies. These factors, as well as general economic and political conditions and the announcement of proposed and completed acquisitions or other significant transactions, or any difficulties associated with such transactions, by us or our current or potential competitors, may materially adversely affect the market price of our common stock in the future. Additionally, volatility, lack of positive performance in our stock price or changes to our overall compensation program, including our stock incentive program, may adversely affect our ability to retain key employees, virtually all of whom are compensated, in part, based on the performance of our stock price.

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Item 2. Unregistered Sales of Equity Securities and Use of Proceeds and Issuer Purchases of Equity Securities

(a) None.

(b) None.

(c) Issuer Purchases of Equity Securities (in millions, except per-share amounts):

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares That May Yet Be Purchased Under the Plans or Programs
July 30, 2023 to August 26, 2023	11	$ 54.21	11	$ 10,358
August 27, 2023 to September 23, 2023	4	$ 56.98	4	$ 10,096
September 24, 2023 to October 28, 2023	8	$ 53.53	8	$ 9,682
Total	23	$ 54.53	23	

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares That May Yet Be Purchased Under the Plans or Programs
October 29, 2023 to November 25, 2023	4	$ 48.08	4	$ 9,482
November 26, 2023 to December 23, 2023	10	$ 48.91	10	$ 8,980
December 24, 2023 to January 27, 2024	11	$ 50.69	11	$ 8,428
Total	25	$ 49.54	25	

On September 13, 2001, we announced that our Board of Directors had authorized a stock repurchase program. The remaining authorized amount for stock repurchases under this program is approximately $9.7 billion $8.4 billion with no termination date.

For the majority of restricted stock units granted, the number of shares issued on the date the restricted stock units vest is net of shares withheld to meet applicable tax withholding requirements. Although these withheld shares are not issued or considered common stock repurchases under our stock repurchase program, and therefore are not included in the preceding table, they are treated as common stock repurchases in our financial statements as they reduce the number of shares that would have been issued upon vesting.

Item 3. Defaults Upon Senior Securities

None.

Item 4. Mine Safety Disclosures

Not applicable.

Item 5. Other Information

Rule 10b5-1 Trading Arrangements

During On December 5, 2023, Deborah L. Stahlkopf, Cisco's Executive Vice President and Chief Legal Officer, adopted a trading plan intended to satisfy the first quarter affirmative defense conditions of fiscal 2024, none Rule 10b5-1(c) under the Exchange Act. Ms. Stahlkopf's trading plan provides for the sale of our directors or officers (as defined 174,717 gross shares (with any shares underlying performance-based equity awards being calculated at target), plus any related dividend-equivalent shares earned with respect to such shares and excluding, as applicable, any shares withheld to satisfy tax withholding obligations in Rule 16a-1(f) connection with the net settlement of the Exchange Act) equity awards. Ms. Stahlkopf's trading plan is scheduled to terminate on December 20, 2024, subject to early termination for certain specified events set forth therein.

The information below is reported in lieu of information that would be reported under Item 5.02 under Form 8-K.

Departure of Directors or Certain Officers.

On February 16, 2024, as part of organizational changes with respect to Cisco's executive leadership team, Cisco informed us of Maria Martinez, Cisco's Executive Vice President and Chief Operating Officer ("COO"), that the adoption or termination of a "Rule 10b5-1 trading arrangement" or "non-Rule 10b5-1 trading arrangement," each as defined in Item 408 of Regulation S-K. COO position currently held by Ms. Martinez has been eliminated. Accordingly, Ms. Martinez will remain employed with Cisco until May 15, 2024. This change is due to aligning the Operations and Customer Experience organizations directly to the Chief Executive Officer and eliminating the COO role.

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Item 6. Exhibits

The following documents are filed as exhibits to this report:

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
2.1	Agreement and Plan of Merger, dated as of September 20, 2023, by and among Cisco Systems, Inc., Spirit Merger Corp., and Splunk Inc.	8-K	001-39940	2.1	9/21/2023	
31.1	Rule 13a-14(a)/15d-14(a) Certification of Principal Executive Officer					X
31.2	Rule 13a-14(a)/15d-14(a) Certification of Principal Financial Officer					X
32.1	Section 1350 Certification of Principal Executive Officer					X
32.2	Section 1350 Certification of Principal Financial Officer					X
101.INS	Inline XBRL Instance - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.					X
101.SCH	Inline XBRL Taxonomy Extension Schema Document					X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document					X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document					X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document					X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document					X
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					X

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.1†	Third Amended and Restated Credit Agreement, dated as of February 2, 2024, by and among Cisco Systems, Inc., certain lenders party thereto, and Bank of America, N.A., as administrative agent, swing line lender and letter of credit issuer	8-K	001-39940	10.1	2/8/2024	
31.1	Rule 13a-14(a)/15d-14(a) Certification of Principal Executive Officer					X
31.2	Rule 13a-14(a)/15d-14(a) Certification of Principal Financial Officer					X
32.1	Section 1350 Certification of Principal Executive Officer					X
32.2	Section 1350 Certification of Principal Financial Officer					X
101.INS	Inline XBRL Instance - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.					X
101.SCH	Inline XBRL Taxonomy Extension Schema Document					X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document					X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document					X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document					X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document					X
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					X

* † Indicates Certain of the exhibits and schedules to this Exhibit have been omitted in accordance with Regulation S-K Item 601(a)(5). Cisco agrees to furnish a management contract or compensatory plan or arrangement. copy of all omitted exhibits and schedules to the SEC upon its request.

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

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Cisco Systems, Inc.

Date: November 21, 2023 February 20, 2024 By /S/ R. Scott Herren

R. Scott Herren
Executive Vice President and
Chief Financial Officer
(Principal Financial Officer and duly authorized signatory)

Exhibit 31.1

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO
EXCHANGE ACT RULE 13a-14(a)/15d-14(a)
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Charles H. Robbins, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Cisco Systems, 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 registrant’s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) 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 registrant’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 registrant’s internal control over financial reporting that occurred during the registrant’s most recent fiscal quarter (the registrant’s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant’s internal control over financial reporting; and

5. The registrant’s other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant’s auditors and the audit committee of the registrant’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 registrant’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 registrant’s internal control over financial reporting.

Date: November 21, 2023 February 20, 2024

/S/ Charles H. Robbins

Charles H. Robbins
Chair and Chief Executive Officer
(Principal Executive Officer)

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Exhibit 31.2

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO
EXCHANGE ACT RULE 13a-14(a)/15d-14(a)
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, R. Scott Herren, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Cisco Systems, 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 registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) 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 registrant'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 registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant'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 registrant'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 registrant's internal control over financial reporting.

Date: November 21, 2023 February 20, 2024

/S/ R. Scott Herren

R. Scott Herren
Executive Vice President and Chief Financial Officer
(Principal Financial Officer)

Exhibit 32.1

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Charles H. Robbins, do hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

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- the Quarterly Report on Form 10-Q of the Company for the quarter ended October 28, 2023 January 27, 2024, as filed with the Securities and Exchange Commission (the "Report"), fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 21, 2023 February 20, 2024

/S/ Charles H. Robbins

Charles H. Robbins
Chair and Chief Executive Officer
(Principal Executive Officer)

Exhibit 32.2

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, R. Scott Herren, do hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- the Quarterly Report on Form 10-Q of the Company for the quarter ended October 28, 2023 January 27, 2024, as filed with the Securities and Exchange Commission (the "Report"), fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 21, 2023 February 20, 2024

/S/ R. Scott Herren

R. Scott Herren
Executive Vice President and Chief Financial Officer
(Principal Financial Officer)

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