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11-012022-10-30Table of Contents UNITED STATES SECURITIES AND EXCHANGE COMMISSIONWashington,Â D.C. 20549FormÂ 10-K (Mark one)â˜ANNUAL REPORT PURSUANT TO SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934For the fiscal year ended October 27, 2024 orâ˜TRANSITION REPORT PURSUANT TO SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934For the transition period fromÂ to Â Commission file number 000-06920Applied Materials, Inc.(Exact name of registrant as specified in its charter)Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â

registrant was required to file such reports), and (2)Â has been subject to such filing requirements for the past 90Â days.Â Â Â Â YesÂ Â â˜‘Â Â Â Â Â Â Â Â Â NoÂ Â â˜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 (Â§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit).Â Â Â Â YesÂ Â â˜‘Â Â Â Â Â Â Â Â Â NoÂ Â â˜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.Â See definitions of â€œlarge accelerated filer,â€ â€œaccelerated filer,â€ â€œsmaller reporting companyâ€ and â€œemerging growth companyâ€ in RuleÂ 12b-2 of the Exchange Act. Large accelerated filerÂ â˜‘Accelerated filerâ˜Smaller reportingÂ company â˜Non-accelerated filer â˜Emerging growth company â˜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. â˜Indicate by check mark whether the registrant has filed a report on and attestation to its managementâ€™s assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C.7262(b)) by the registered public accounting firm that prepared or issued its audit report. â˜‘If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements. â˜Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrantâ€™s executive oï¬fcers during the relevant recovery period pursuant to Â§240.10D-1(b). â˜Indicate by check mark whether the registrant is a shell company (as defined in RuleÂ 12b-2 of the Act).Â Â Â Â YesÂ Â â˜Â Â Â Â Â Â Â Â Â NoÂ Â â˜‘Aggregate market value of the voting stock held by non-affiliates of the registrant as of April 28, 2024, based upon the closing sale price reported by the Nasdaq Global Select Market on that date: $167,928,935,720 Number of shares outstanding of the registrantâ€™s Common Stock, $0.01Â par value, as of DecemberÂ 6, 2024: 813,684,638 DOCUMENTS INCORPORATED BY REFERENCE:Portions of Part III will be provided in accordance with Instruction G(3) to Form 10-K no later than February 24, 2025.Table of ContentsCaution Regarding Forward-Looking StatementsThis Annual Report on FormÂ 10-K of Applied Materials, Inc. and its subsidiaries, including â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operationsâ€ in ItemÂ 7, contains forward-looking statements that involve a number of risks and uncertainties. Examples of forward-looking statements include those regarding our future financial or operating results, customer demand and spending, end-user demand, our and market and industry trends and outlooks, cash flows and cash deployment strategies, declaration of dividends, share repurchases, business strategies and priorities, costs and cost controls, products, competitive positions, managementâ€™s plans and objectives for future operations, research and development, acquisitions, investments and divestitures, growth opportunities, restructuring and severance activities, backlog, working capital, liquidity, investment portfolio and policies, taxes, supply chain, manufacturing, properties, legal matters, claims and proceedings, and other statements that are not historical facts, as well as their underlying assumptions. Forward-looking statements may contain words such as â€œmay,â€ â€œwill,â€ â€œshould,â€ â€œcould,â€ â€œwould,â€ â€œexpect,â€ â€œplan,â€ â€œanticipate,â€ â€œbelieve,â€ â€œestimate,â€ â€œintend,â€ â€œpotentialâ€ and â€œcontinue,â€ the negative of these terms, or other comparable terminology. All forward-looking statements are subject to risks and uncertainties and other important factors, including those discussed in PartÂ I, ItemÂ 1A, â€œRisk Factors,â€ below and elsewhere in this report. These and many other factors could affect our future financial condition and operating results and could cause actual results to differ materially from expectations based on forward-looking statements made in this document or elsewhere by us or on our behalf. Forward-looking statements are based on managementâ€™s estimates, projections and expectations as of the date hereof, and we undertake no obligation to revise or update any such statements.The following information should be read in conjunction with the Consolidated Financial Statements and the accompanying Notes to Consolidated Financial Statements included in this report.2Table of ContentsAPPLIED MATERIALS, INC.FORM 10-K FOR THE FISCAL YEAR ENDED OCTOBERÂ 27, 2024TABLE OF CONTENTSÂ Â Â PagePARTÂ IItemÂ 1:Business4ItemÂ 1A:Risk Factors13ItemÂ 1B:Unresolved Staff Comments27Item 1C:Cybersecurity27ItemÂ 2:Properties28ItemÂ 3:Legal Proceedings29ItemÂ 4:Mine Safety Disclosures29PARTÂ IIItemÂ 5:Market for Registrantâ€™s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities30Item 6:[Reserved]31ItemÂ 7:Managementâ€™s Discussion and Analysis of Financial Condition and Results of Operations32ItemÂ 7A:Quantitative and Qualitative Disclosures About Market Risk44ItemÂ 8:Financial Statements and Supplementary Data44Item 9:Changes in and Disagreements with Accountants on Accounting and Financial Disclosure44Item 9A:Controls and Procedures45Item 9B:Other Information45Item 9C:Disclosure Regarding Foreign Jurisdictions that Prevent Inspections45PARTÂ IIIItem 10:Directors, Executive Officers and Corporate Governance46Item 11:Executive Compensation46Item 12:Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters47Item 13:Certain Relationships and Related Transactions, and Director Independence48Item 14:Principal Accounting Fees and Services48PARTÂ IVItem 15:Exhibits, Financial Statement Schedules49Item 16:Form 10-K Summary49Signatures883Table of ContentsPART IItem 1:Â Â Â Â Â BusinessApplied Materials, Inc. is the leader in the materials engineering solutions used to produce virtually every semiconductor and advanced display in the world. We are experts in the design, development, production, and servicing of the critical wafer fabrication and display fabrication tools our customers need to manufacture semiconductors and displays. Our customersâ€™ products are used in a wide variety of products such as personal computing devices, mobile phones, artificial intelligence (AI) and data center servers, automobiles, connected devices, industrial applications and consumer electronics. We have the semiconductor capital equipment industryâ€™s most comprehensive portfolio of products. This breadth allows us the ability to connect and co-optimize technologies across our portfolio, enabling our customers to achieve superior results as manufacturing semiconductors and displays is becoming increasingly complex. Semiconductors provide the foundation for advances in technology that are reshaping the global economy, including artificial intelligence, internet of things, robotics, electric and autonomous vehicles, and clean energy.Incorporated in 1967, we are a Delaware corporation. Our fiscal year ends on the last Sunday in October. We operate in three reportable segments: Semiconductor Systems, Applied Global ServicesÂ® (AGS), and Display. The Semiconductor Systems segment represents the largest contributor to our net revenue. A summary of financial information for each reportable segment is found in Note 14 of Notes to Consolidated Financial Statements. A discussion of factors that could affect operations is set forth under â€œRisk Factorsâ€ in ItemÂ 1A, which is incorporated herein by reference.Semiconductor Systems Our Semiconductor Systems segment designs, develops, manufactures and sells a wide range of primarily 300mm equipment used to fabricate semiconductor chips, also referred to as integrated circuits (ICs). The Semiconductor Systems segment consists of the semiconductor capital equipment industryâ€™s most comprehensive portfolio of products used in the chip making process. Our products address steps across materials engineering, process control and advanced packaging, including the conversion of patterns into device structures, transistor and interconnect fabrication, metrology, inspection and review, and packaging technologies for connecting finished IC die. In addition to providing equipment for individual process steps, we have the ability to combine, co-optimize and integrate our technologies to develop highly differentiated solutions for our customers. Our equipment helps customers improve the power, performance, yield and costs of the semiconductor devices.Our patterning systems and technologies address challenges resulting from shrinking pattern dimensions and the growing complexity in vertical stacking found in todayâ€™s most advanced semiconductor devices. Our transistor and interconnect products and technologies enable continued power and performance improvements of 3D transistors. Our process control systems employ optical and eBeam technologies that allow customers to inspect and review critical semiconductor architectures throughout the manufacturing process, helping improve chip yields. Our advanced packaging systems use our materials engineering expertise to allow customers to connect multiple chips together through heterogeneous integration, enabling them to advance the technology roadmap beyond a single chip.Our Semiconductor Systems sales are to customers that serve the following markets: foundry, logic and other; DRAM; flash memory. Foundry, logic, and other is comprised of leading-edge and non-leading edge technology nodes. Leading-edge represents customers that are producing on the most advanced technology nodes. Non-leading edge technology nodes serve markets such as internet of things, communications, automotive, power and sensors.4Table of ContentsApplied Global ServicesThe AGS segment provides services, spares and factory automation software to customer fabrication plants globally. The AGS segment also manufactures and sells 200mm and other equipment, which is shipped to customers globally that serve non-leading-edge markets.AGSâ€™s transactional and subscription service products, spares and factory automation software is purchased by customers to optimize the performance of our large, global installed base of semiconductor, display and other equipment. These solutions are also used to optimize plant performance and productivity. Customer demand is fulfilled through a global distribution system in more than 200 locations and trained field engineers located near customer sites to support our semiconductor, display and other equipment worldwide.DisplayDisplay segment is comprised primarily of products for manufacturing liquid crystal displays (LCDs), organic light-emitting diodes (OLEDs), and other display technologies for TVs, monitors, laptops, personal computers (PCs), tablets, smartphones, and other consumer-oriented devices. While similarities exist between the technologies utilized in semiconductor and display fabrication, the most significant differences are in the size and composition of the substrate. Substrates used to manufacture display panels and other devices are typically glass, although newer flexible materials are entering the market. Display segment growth depends primarily on consumer demand for increasingly larger and more advanced TVs and high-resolution displays for mobile devices and information technology (IT) products, including laptops, monitors and tablets, as well as new form factors, including thin, light, curved and flexible displays, and new applications such as augmented and virtual reality. In addition to display applications, the segmentâ€™s Chemical Vapor Deposition (CVD) technology is used to manufacture solar energy cells. The expertise that we have in materials engineering on large glass substrates is synergistic with the advanced packaging business in the Semiconductor Products Group, as there is a trend in the industry to utilize various types of substrates, including glass.5Table of ContentsBacklogWe manufacture systems to meet demand represented by order backlog and customer commitments. Backlog consisted of: (1)Â orders for which written authorizations have been accepted, or shipment has occurred but revenue has not been recognized; and (2)Â contractual service revenue and maintenance fees.Backlog by reportable segment as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023 was as follows:Â 20242023Â (In millions, except percentages)Semiconductor Systems$8,259Â 52Â %$11,127Â 65Â %Applied Global Services6,767Â 43Â %5,162Â 30Â %Display827Â 5Â %833Â 5Â %Corporate and Other20Â Â€”Â %49Â Â€”Â %Total$15,873Â 100Â %$17,171Â 100Â %Of the total backlog as of OctoberÂ 27, 2024, approximately 31% is not reasonably expected to be filled within the next 12 months.As a result of new export rules and regulations issued in December 2024, backlog as of OctoberÂ 27, 2024 is expected to be reduced by approximately $549 million. This reduction would have resulted in total backlog as of OctoberÂ 27, 2024 of $15.3 billion, of which approximately 31% would not have been reasonably expected to be filled within 12 months.Our backlog on any particular date is not necessarily indicative of actual sales for any future periods. Our backlog is subject to change, including the potential for customer changes such as new orders or cancellations, and changes in export rules and regulations. Customers may delay delivery of products or cancel orders prior to shipment, subject to possible cancellation penalties. Delays in delivery schedules or a reduction of backlog during any particular period could have a material adverse effect on our business and results of operations.Manufacturing, Raw Materials and SuppliesOur worldwide manufacturing activities consist primarily of assembly, integration and test of various proprietary and commercial parts, components and subassemblies that are used to manufacture systems. We utilize a distributed manufacturing model under which manufacturing and supply chain activities are conducted in various countries, including United States, Singapore, Japan, China, Korea, Taiwan, Israel and other countries in Asia and Europe. We use qualified vendors, including contract manufacturers, to supply parts, services and product support. Our supply chain strategy commits to adhere to ethical labor practices, responsible minerals sourcing, Responsible Business Alliance and SEMI guidelines, and the Applied Materials Standards of Business Conduct as defined in our Environmental, Social and Governance (ESG) commitment. Although we make reasonable efforts to assure that parts are available from multiple qualified suppliers, this is not always possible. Accordingly, some key parts may be obtained from only a qualified single supplier or a limited group of qualified suppliers. We seek to reduce costs and to lower the risks of manufacturing and service interruptions by selecting and qualifying alternate suppliers for parts; monitoring the financial condition of key suppliers; maintaining appropriate inventories of parts; qualifying new parts on a timely basis; and ensuring quality and performance of parts.Research, Development and EngineeringOur long-term growth strategy requires continued development of new materials engineering solutions, including products and platforms that enable expansion into new and adjacent markets. Our significant investments in research, development and engineering (RD&E) must generally enable us to deliver new products and technologies before the emergence of strong demand, thus allowing customers to incorporate these products into their manufacturing plans during early-stage technology selection. We work closely with our global customers and ecosystem partners to design systems and processes that meet planned technical and production requirements. Our product development and engineering, and process support are performed primarily in the United States, India and Israel. Our customer demonstrations are performed primarily in the United States, China, Taiwan, Israel and South Korea.6Table of ContentsMarketing and SalesBecause of the highly technical nature of our products, we market and sell products worldwide almost entirely through a direct sales force.We have operations in many countries, with some of our business activities concentrated in certain geographic areas. Our business is based on capital equipment investments by major semiconductor, display and other manufacturers, and is subject to significant variability in customer demand for our products. Customersâ€™ expenditures depend on many factors, including: general economic conditions; anticipated market demand and pricing for semiconductors, display technologies and other electronic devices; the development of new technologies; customersâ€™ factory utilization; capital resources and financing; trade policies and export regulations; and government incentives. Information on net revenue to unaffiliated customers and long-lived assets attributable to our geographic regions is included in Note 14 of Notes to Consolidated Financial Statements. The following companies accounted for at least 10 percent of our net revenue for the following fiscal years for products and services in multiple reportable segments.Â 20242023Samsung Electronics Co., Ltd.12%15%Taiwan Semiconductor Manufacturing Company Limited11%19%7Table of ContentsCompetitionThe industries in which we operate are highly competitive and characterized by rapid technological change. Our ability to compete generally depends on our ability to commercialize our technology in a timely manner, continually improve our products, and develop new products that meet constantly evolving customer requirements. Significant competitive factors include technical capability and differentiation, productivity, cost-effectiveness and the ability to support a global customer base. The importance of these factors varies according to customersâ€™ needs, including product mix and respective product requirements, applications, and the timing and circumstances of purchasing decisions. Substantial competition exists across all the segments of our business. Competitors range from small companies that compete in a single region, which may benefit from policies and regulations that favor domestic companies, to global, diversified companies, which operate in more complex global economic and regulatory environments. We could see increased competition from domestic equipment manufacturers in China resulting from local government incentives and funding as well as export controls established by the United States government to restrict the sale of certain technologies to customers in China. Export controls enacted by the United States government that restrict the sale of certain technologies to customers in China may also provide an advantage to our international competitors. Our ability to compete requires a high level of investment in RD&E, marketing and sales, and global customer support activities. We believe that many of our products have strong competitive positions.The competitive environment for each segment is described below.The semiconductor industry is driven by demand for advanced electronic products, including smartphones and other mobile devices, servers, personal computers, automotive electronics, storage, and other products. The growth of data and emerging end-market drivers such as artificial intelligence, the internet of things, 5G networks, smart vehicles and augmented and virtual reality are also creating the next wave of growth for the industry. As a result, products within the Semiconductor Systems segment are subject to significant changes in customer requirements, including transitions to smaller dimensions, increasingly complex chip architectures, new materials and an increasing number of applications. While certain existing technologies may be adapted to new requirements, some applications create the need for an entirely different technological approach. The rapid pace of technological change can quickly diminish the value of current technologies and products and create opportunities for existing and new competitors. Our comprehensive portfolio offers a variety of differentiated products, including co-optimized and integrated materials solutions that enable unique films, structures and devices. We must successfully anticipate technology inflections, and our products must continuously evolve to satisfy customersâ€™ requirements to compete effectively in the marketplace. We allocate resources among our numerous product offerings and

therefore may decide not to invest in an individual product depending on market requirements. Competitors serving the semiconductor equipment industry range from companies offering a single product line to others offering multiple product lines, and those that serve a single region to global, diversified companies.The products and services offered by the AGS segment enhance those of the Semiconductor Systems and Display segments, particularly in markets with demanding global service requirements. Competition in the AGS segment includes a diverse group of third-party service providers as well as customers that choose to perform their own service.To compete effectively, we offer products and services to improve system performance, lower overall cost of ownership, and increase yields and productivity of customersâ€™ fab operations. Significant competitive factors include cost-effectiveness and the level of technical service and support. The importance of these factors varies according to customersâ€™ needs and the type of products or services offered.Products in the Display segment are generally subject to strong competition from a number of major competitors primarily in Asia. We hold established market positions with our technically-differentiated LCD and OLED manufacturing solutions for PECVD, color filter PVD, PVD array, PVD touch panel, and TFT array testing, although our market position could change quickly due to customersâ€™ evolving requirements. Important factors affecting the competitive position of our Display products include: industry trends, our ability to innovate and develop new products, and the extent to which our products are technically-differentiated, as well as which customers within a highly concentrated customer base are making capital equipment investments and our existing position at these customers.8Table of ContentsPatents and LicensesProtection of our technology assets through enforcement of our intellectual property rights, including patents, is important for our competitive position. Our practice is to file patent applications in the United States and other countries for inventions that we consider significant. We have more than 22,000 active patents in the United States and other countries, and additional applications are pending for new inventions. Although we do not consider our business materially dependent upon any one patent, our rights and the products made and sold under our patents, taken as a whole, are a significant element of our business. In addition to our patents, we possess other intellectual property, including trademarks, know-how, trade secrets, and copyrights. We enter into patent and technology licensing agreements with other companies when it is determined to be in our best interest. We pay royalties under patent license agreements for the use, in some of our products, of certain patented technologies. We also receive royalties from licenses granted to third parties. Royalties received from or paid to third parties have not been material to our consolidated results of operations.In the normal course of business, we periodically address the possibility of patent infringement. In responding to such inquiries, it may become necessary or useful for us to obtain or grant licenses or other rights. However, there can be no assurance that such licenses or rights will be available to us on commercially reasonable terms, or at all. If we are not able to resolve or settle claims, obtain necessary licenses on commercially reasonable terms, or successfully prosecute or defend our position, our business, financial condition and results of operations could be materially and adversely affected.Governmental RegulationAs a public company with global operations, we are subject to the laws and regulations of the United States and multiple foreign jurisdictions. These regulations, which differ among jurisdictions, include those related to financial and other disclosures, accounting standards, securities, corporate governance, public procurement and public funding, intellectual property, tax, trade (including import, export and customs), antitrust, cybersecurity, environment (including those related to sustainability and climate), health and safety employment, immigration and travel regulations, human rights, privacy, data protection and localization, and anti-corruption. See â€œRisk Factors â€“ Legal, Compliance, and Other Risks â€“ We are exposed to risks related to the global regulatory environmentâ€ for further details.We are regulated under various international laws regarding the purchase and sale of goods and related items, including but not limited to those related to trade policies and export regulations, and limitations on transfer of intellectual property. See â€œRisk Factors â€“ Business and Industry Risks â€“ Global trade issues and changes in and uncertainties with respect to trade policies and export regulations, including import and export license requirements, trade sanctions, tariffs and international trade disputes, have adversely impacted and could further adversely impact our business and operations, and reduce the competitiveness of our products relative to local and global competitorsâ€ for further details.With respect to environmental, health and safety regulations, we maintain a number of programs that are primarily preventative in nature and regularly monitor ongoing compliance with applicable laws and regulations. In addition, we have trained personnel to conduct investigations of any environmental, health, or safety incidents, including, but not limited to, spills, releases, or possible contamination. See also â€œRisk Factors â€“ Risks Related to Legal, Compliance, and Other Risks â€“ We are subject to risks associated with environmental, health and safety regulationsâ€ for further details.We are subject to income taxes in the United States and foreign jurisdictions. Our provision for income taxes, effective tax rate and financial results could be affected by numerous factors, including changes in applicable tax laws, interpretations of applicable tax laws, amount and composition of pre-tax income in jurisdictions with differing tax rates, and valuation of deferred tax assets. There have been a number of proposed changes in the tax laws that could increase our tax liability. See â€œRisk Factors â€“ Operational and Financial Risks â€“ We operate in jurisdictions with complex and changing tax lawsâ€ for further details. For additional discussions regarding the impact of compliance with income tax laws and regulations on our business and operations, see also â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operationsâ€“ Results of Operations â€“ Income Taxesâ€ and Note 12 of the Notes to the Consolidated Financial Statements.9Table of ContentsOur PeopleOur commitment to innovation begins with the commitment to creating an environment in which our employees can do their best work. Our ability to create differentiated value in the marketplace is driven by the capability of our people to anticipate technology inflections and integrate customer requirements. To achieve this level of value creation, we believe we must continue to attract, hire, develop and retain a world-class global workforce. We invest in our employees by providing quality training and learning opportunities, a compelling career path, promoting inclusion, equity and diversity, and upholding a high standard of ethics and respect for human rights. As of October 27, 2024, we employed approximately 35,700 regular full-time employees, of whom approximately 45%, 43% and 12% resided in the Asia-Pacific region, North America, and Europe/Middle East, respectively. Our team spans 24 countries, reflecting various cultures, back grounds, race, color, national origin, religion, sex, sexual orientation, gender identity, ages, and disability, veteran and military status.Culture of Inclusion We value great talent and different perspectives, knowing that diversity is one of our greatest strengths. We therefore strive to provide fair and equal opportunity for career development and advancement to all our employees and incorporate respect for diverse backgrounds and perspectives into our culture at every level â€“ from strategy and policy down to everyday interactions.We expect that our commitment to strengthening our culture of inclusion will broaden the diversity of our workplace and help us build a culture that benefits everyone. In recent years, we continued to make progress in our culture of inclusion journey, including, among other things, increasing female representation in the United States and global workforce, and increasing minority representation in the United States. As of October 27, 2024, our global workforce was 79.2% male and 20.6% female, and 19.8% of our workforce in the United States was composed of underrepresented minorities.Talent Acquisition and Retention We believe that our future success is highly dependent upon our continued ability to attract, develop, retain and engage employees. As part of our effort to attract and retain employees, we offer competitive rewards, compensation and benefits, including an Employee Stock Incentive Plan, an Employeesâ€™ Stock Purchase Plan, healthcare and retirement benefits, parental and family leave, adoption credits, holiday and paid time off, and tuition assistance.Employee Learning & Development We seek to create growth and development opportunities to support an engaged and inclusive workforce. We promote holistic employee learning and development based on the 70/20/10 model--70% on-the-job learning, 20% social/collaborative and 10% formal training, with a focus on advancing technical skills as well as improving general business acumen to address increasing work complexity. Also, to help expand professional breadth, the segments and functions provide technical and job-specific training tied to their disciplines, while general professional, management, and leadership training is provided at the corporate level. All training is coordinated centrally and aligned with common objectives through Applied Global University. In addition to instructor-led and web-based training, we offer state-of-the-art training modalities, such as AI-based simulations and Augmented and Virtual Reality learning capabilities, to further the development of our new products, train our manufacturing and field support employees, and facilitate remote collaboration.Employee EngagementWe have historically measured employee engagement through surveys to gain insight into employeesâ€™ experiences, levels of workplace satisfaction, and key drivers for engagement, inclusion and overall well-being. We plan to conduct an all-employee survey anonymously in fiscal 2025 through an external partner to encourage maximal participation and elicit candid responses. We also plan to benchmark the survey results against a large and standardized data set involving large technology companies globally. We expect that the survey results and the benchmarking data will allow us to better understand enterprise-wide trends, gauge effectiveness of interventions, and define targeted employee populations (e.g., early tenure employees). The survey results are also expected to provide leaders and people managers with actionable insights tailored to their own groups that can further enhance employee engagement and inclusion. These actionable insights will then be integrated with the people strategy process and cadence within the Company.Additional information regarding our activities related to our people and sustainability, as well as our workforce diversity data, can be found in our latest Sustainability Report, which is located on our website at https://www.appliedmaterials.com/us/en/corporate-responsibility.html. The Sustainability Report is updated annually. This website address is intended to be an inactive textual reference only. None of the information on, or accessible through, our website is part of this Form 10-K or is incorporated by reference herein.10Table of ContentsInformation about our executive officersThe following table and notes set forth information about our executive officers:Name of IndividualPositionGary E. Dickerson(1)President, Chief Executive OfficerBrice Hill(2)Senior Vice President, Chief Financial Officer and Global Information ServicesPrabu Raja(3)President, Semiconductor Products GroupTeri Little(4)Senior Vice President, Chief Legal Officer and Corporate SecretaryOmkaram Nalamasu(5)Senior Vice President, Chief Technology OfficerTimothy M. Deane(6)Group Vice President, Applied Global Services(1)Mr.Â Dickerson, ageÂ 67, was named President of Applied in June 2012 and appointed Chief Executive Officer and a member of the Board of Directors in September 2013. Before joining Applied, he served as Chief Executive Officer and a director of Varian Semiconductor Equipment Associates, Inc. (Varian) from 2004 until its acquisition by us in November 2011. Prior to Varian, Mr. Dickerson served 18 years with KLA-Tencor Corporation (KLA-Tencor), a supplier of process control and yield management solutions for the semiconductor and related industries, where he held a variety of operations and product development roles, including President and Chief Operating Officer. Mr. Dickerson started his semiconductor career in manufacturing and engineering management at General Motorsâ€™ Delco Electronics Division and then AT&T Technologies.(2)Mr. Hill, age 58, has been Senior Vice President and Chief Financial Officer since March 2022. He also oversees Global Information Services for Applied. Prior to joining Applied, Mr. Hill was Executive Vice President and Chief Financial Officer of Xilinx, Inc., a company that designed and developed programmable devices and associated technologies, from April 2020 until its acquisition by Advanced Micro Devices, Inc. in February 2022. Prior to Xilinx, Mr. Hill served in various finance positions with Intel Corporation for 25 years, most recently as Corporate Vice President and Chief Financial Officer and Chief Operating Officer, Technology, Systems and Core Engineering Group. (3)Dr. Raja, age 62, has been President, Semiconductor Products Group since March 2023. He previously served as Senior Vice President, Semiconductor Products Group of Applied from November 2017 to March 2023, and before that served in various senior management, product development and operational roles since joining Applied in 1995, including Group Vice President and General Manager of the Patterning and Packaging Group.(4)Ms. Little, age 60, joined Applied as Senior Vice President, Chief Legal Officer and Corporate Secretary in June 2020. Prior to joining Applied, Ms. Little served as Executive Vice President, Chief Legal Officer and Corporate Secretary at KLA Corporation from August 2017 to June 2020. Prior to that she was Senior Vice President, General Counsel and Corporate Secretary of KLA Corporation from October 2015 until August 2017, and prior to that she held various other positions at KLA Corporation since 2002. Prior to joining KLA Corporation, she was a Senior Corporate Associate at Wilson Sonsini Goodrich & Rosati, and a Litigation Associate at Heller Ehrman White & McAuliffe.(5)Dr.Â Nalamasu, age 66, has been Senior Vice President, Chief Technology Officer since June 2013, and President of Applied Ventures, LLC, Appliedâ€™s venture capital arm, since November 2013. He had served as Group Vice President, Chief Technology Officer from January 2012 to June 2013, and as Corporate Vice President, Chief Technology Officer from January 2011 to January 2012. Upon joining Applied in June 2006 until January 2011, Dr.Â Nalamasu was an Appointed Vice President of Research and served as Deputy Chief Technology Officer and General Manager for the Advanced Technologies Group. From 2002 to 2006, Dr.Â Nalamasu was a NYSTAR distinguished professor of Materials Science and Engineering at Rensselaer Polytechnic Institute, where he also served as Vice President of Research from 2005 to 2006. Prior to Rensselaer, Dr. Nalamasu served in several leadership roles at Bell Laboratories.(6)Mr. Deane, age 59, has been Group Vice President, Applied Global Services since September 2022. He joined Applied in 1995 and previously served in various senior management and field operations roles, including head of Field Operations and Business Management for the Semiconductor Products Group, Account General Manager and Region General Manager. 11Table of ContentsAvailable InformationOur website is http://www.appliedmaterials.com. We make available free of charge, on or through our website, our annual, quarterly and current reports, and any amendments to those reports, as soon as reasonably practicable after electronically filing such reports with, or furnishing them to, the SEC. The SECâ€™s website, www.sec.gov, contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. These website addresses are intended to be an inactive textual references only. None of the information on, or accessible through, these websites is part of this FormÂ 10-K or is incorporated by reference herein.12Table of ContentsItem 1A:Â Â Â Â Â Â Â Risk FactorsThe following risk factors could materially and adversely affect our business, financial condition or results of operations and cause reputational harm, and should be carefully considered in evaluating our business, in addition to other information presented elsewhere in this report.Business and Industry RisksThe industries we serve can be volatile and difficult to predict.We are a supplier to the global semiconductor and display and related industries, which historically have been cyclical and are subject to volatility in customer demand. Factors that impact demand for our products and services include technology inflections and advances in fabrication processes, new and emerging technologies and market drivers, such as demand for high-bandwidth memory and other forms of advanced packaging and technologies related to artificial intelligence and data center computing, production capacity relative to demand for semiconductor chips and electronic devices, end-user demand, customersâ€™ capacity utilization, production volumes, access to affordable capital, business and consumer buying patterns and general economic and political conditions. Artificial intelligence is evolving rapidly and is a relatively new demand driver for semiconductors and semiconductor equipment, and it is difficult to accurately forecast such demand. Changes in demand can affect the timing and amounts of customer investments in technology and manufacturing equipment and can significantly impact our operating results. The amount and mix of our customersâ€™ capital equipment spending between different products and technologies can also significantly impact our operating results.To meet rapidly changing demand, we must accurately forecast demand and effectively manage our resources, investments, production capacity, supply chain, workforce, inventory, and other components of our business. We may incur unexpected or additional costs to align our business operations with changes in demand. If we do not effectively manage these challenges, our business performance and operating results may be adversely impacted. Even with effective allocation of resources and management of costs, our gross and operating margins, cash flows and earnings may be adversely impacted during periods of changing demand.We are exposed to risks associated with an uncertain global economy.Uncertain or adverse economic and business conditions, including uncertainties and volatility in the financial markets, national debt, fiscal or monetary concerns, inflation and changes in interest rates, bank failures, and economic recession, could materially and adversely impact our operating results. Markets for our semiconductor and display equipment and services depend largely on business and consumer spending and demand for semiconductor chips and electronic devices. Uncertain or adverse economic and business conditions could result in decreases in business and consumer spending and demand. Decreases in spending and demand have caused, and may in the future cause, our customers to push out, cancel or refrain from purchasing our equipment or services, which could negatively impact demand for our products and services, reduce our backlog, increase our inventory, and materially and adversely impact our operating results. Increases in demand for semiconductor chips and electronic devices have caused, and may in the future cause, a shortage of parts and materials needed to manufacture our products. Such shortages, and shipment delays due to transportation capacity and interruptions, have adversely impacted, and may in the future adversely impact, our suppliersâ€™ ability to meet our requirements. Accelerated digital transformation may further increase demand and exacerbate shortages and strain our manufacturing capacity, which may adversely impact our ability to meet customer demand and have an adverse impact on our revenues, operating results and financial condition.Uncertain or adverse economic and market conditions, difficulties in obtaining capital, increased costs or reduced profitability may cause some customers to scale back operations, exit businesses,

merge with other manufacturers, or file for bankruptcy protection and potentially cease operations, which can result in lower sales, additional inventory or bad debt expense. Economic and industry uncertainty may impair the ability of suppliers to deliver parts and negatively affect our ability to manage operations and deliver products. These conditions may also lead to consolidation or strategic alliances among other equipment manufacturers, which could adversely affect our ability to compete effectively. Uncertain economic and industry conditions and supply chain challenges make it more difficult to accurately forecast operating results, make business decisions, and identify and prioritize the risks that may affect our businesses, sources and uses of cash, financial condition and results of operations. If we do not appropriately manage our business operations it could have a material and adverse impact on our business performance and financial condition. We may be required to implement additional cost reduction efforts, including restructuring activities, which may adversely impact our ability to capitalize on opportunities. Even during periods of economic uncertainty or lower demand, we must continue to invest in research and development and maintain a global business infrastructure to compete effectively and support our customers, which can have a negative impact on our operating results.13Table of ContentsWe maintain an investment portfolio that is subject to general credit, liquidity, market and interest rate risks. The risks to our investment portfolio may be exacerbated if financial market conditions deteriorate due to rising inflation, rising interest rates, bank failures or economic recession and the value and liquidity of the investment portfolio and returns on pension assets could be negatively impacted and lead to impairment charges. We also maintain cash balances in various bank accounts globally to fund normal operations. If any of these financial institutions become insolvent, it could limit our ability to access cash in the affected accounts, which could affect our ability to manage our operations.We are exposed to the risks of operating a global business.We have product development, engineering, manufacturing, sales and other operations distributed throughout many countries, and some of our business activities are concentrated in certain geographic areas. In fiscal 2024, approximately 86% of our net revenue was to customers in regions outside the United States. As a result of the global nature of our operations, our business performance and results of operations may be adversely affected by a number of factors, including:â€¢uncertain or adverse global economic, political and business conditions and demand;â€¢global trade issues and changes in and uncertainties with respect to trade and export regulations, trade policies and sanctions, tariffs, and international trade disputes, including new and changing export regulations and their impact on our ability to export products and provide services to customers;â€¢positions taken by governmental agencies regarding national, commercial or security issues posed by the development, sale or export of certain products, technologies and raw materials, including critical materials and critical minerals;â€¢political instability, social unrest, terrorism, acts of war or other geopolitical turmoil, such as the conflict in the Middle East, in locations where we have operations, suppliers or sales, or that may influence the value chain of the industries we serve;â€¢cybersecurity incidents;â€¢political and social attitudes, laws, rules, regulations and policies within countries, including in China, the United States, and countries in Europe and Asia, that favor domestic companies over non-domestic companies, including efforts to promote the development and growth of local competitors and reduce dependence on foreign semiconductor equipment and manufacturing capabilities through policies and financial incentives;â€¢efforts to influence us to conduct more or less of our operations and sourcing in a particular country;â€¢different and changing local, regional, national or international laws and regulations, including contract, intellectual property, cybersecurity, data privacy, labor, tax, and import/export laws, and the interpretation and application of laws and regulations;â€¢ineffective or inadequate legal protection of intellectual property rights in certain countries;â€¢interruptions to our or our suppliersâ€™ supply chain;â€¢the availability of raw materials, including critical materials and critical minerals, and increases and volatility of commodity, energy and shipping costs;â€¢delays or restrictions on personnel travel and in shipping materials or products;â€¢geographically diverse operations and projects, and our ability to maintain appropriate business processes, procedures and internal controls, and comply with environmental, health and safety, anti-corruption and other regulatory requirements;â€¢challenges in hiring and integrating workers in different countries, and in effectively managing a diverse workforce with different experience levels, languages, cultures, customs, business practices and worker expectations, and differing employment practices and labor issues;â€¢the ability to develop relationships with local customers, suppliers and governments;â€¢fluctuations in interest rates and currency exchange rates, including the relative strength or weakness of the U.S. dollar against the Japanese yen, Israeli shekel, euro, Taiwanese dollar, Singapore dollar, Chinese yuan or Korean won;â€¢the need to provide technical support in different locations around the world;â€¢performance of geographically diverse third-party providers, including certain engineering, software development, manufacturing, information technology and other functions;â€¢service interruptions from utilities, transportation, data hosting or telecommunications providers;â€¢impacts of natural disasters and extreme and chronic weather events on our operations and those of our customers and suppliers, which may be exacerbated by climate change;14Table of Contentsâ€¢regional or global health epidemics;â€¢the increasing need for a mobile workforce and travel to different regions; andâ€¢uncertainties with respect to economic growth rates in various countries, including for the manufacture and sale of semiconductors and displays in the developing economies of certain countries.Global trade issues and changes in and uncertainties with respect to trade policies and export regulations, including import and export license requirements, trade sanctions, tariffs and international trade disputes, have adversely impacted and could further adversely impact our business and operations, and reduce the competitiveness of our products and services relative to local and global competitors.A majority of our products and services are delivered to customers in jurisdictions outside of the United States, including China, Taiwan, Korea and Japan. We also purchase a significant portion of equipment and supplies from suppliers outside of the United States. There is inherent risk, based on the complex relationships among the United States and the countries in which we conduct our business, that political, diplomatic, and national security factors can lead to global trade restrictions and changes in trade policies and export regulations that affect the semiconductor industry. The United States and other countries have imposed and may continue to impose new trade restrictions and export regulations, have levied tariffs and taxes on certain goods, and could significantly increase tariffs on a broad array of goods. Trade restrictions and export regulations, or increases in tariffs and additional taxes, including any retaliatory measures, can negatively impact end-user demand and customer investment in semiconductor equipment, increase our supply chain complexity and our manufacturing costs, decrease margins, reduce the competitiveness of our products, or restrict our ability to sell products, provide services or purchase necessary equipment and supplies, any or all of which could have a material and adverse effect on our business, results of operations, or financial condition.For example, certain international sales depend on our ability to obtain export licenses, and our inability to obtain such licenses has limited and could further limit our markets and negatively impact our business. Over the past several years, the U.S. government announced additional export regulations for U.S. semiconductor technology sold in China, including wafer fabrication equipment and related parts and services, with disparate impact on companies in different jurisdictions, which have limited the market for certain of our products and services, adversely impacted our revenues, and increased our exposure to foreign and Chinese domestic competition. The U.S. Department of Commerce has promulgated regulations expanding export license requirements for U.S. companies that sell certain products or provide certain services to entities in China whose actions or functions are intended to support military end uses, eliminated certain export license exceptions that applied to exports of certain items to China, added certain Chinese companies to its â€œEntity List,â€ making those companies subject to additional licensing requirements, and expanded licensing requirements for exports to China of items for use in the development or production of integrated circuits and certain technologies. These regulations require us to obtain additional export licenses to supply certain of our products or provide services to certain customers in China. Obtaining export licenses may be difficult and time-consuming, and there is no assurance we will be issued licenses on a timely basis or at all. Our inability to obtain such licenses could limit our sales in China, may cause us to be displaced by foreign and Chinese domestic companies and adversely affect our results of operations. The implementation and interpretation of these complex rules and other regulatory actions taken by the U.S. government are uncertain and evolving and may make it more challenging for us to manage our operations and forecast our operating results. The U.S. and other governments may promulgate new or additional export licensing or other requirements that have the effect of further limiting our ability to provide certain products and services to customers outside the U.S., including China. The U.S. government may also revise or expand existing requirements or issue guidance clarifying the scope and application of these requirements, which could change the impact of these rules on our business and manufacturing operations. The U.S. government may also continue to add customers to its â€œEntity Listâ€ or promulgate additional restrictions, or take measures that could disrupt our product shipments or the provision of services to certain customers. These and other potential future regulatory changes could materially and adversely affect our business, results of operations or financial condition.As a global business with customers, suppliers and operations in many countries around the world, from time to time we may receive inquiries from government authorities about transactions between us and certain foreign entities. For example, since 2022, we have received multiple subpoenas from government authorities requesting information relating to certain China customer shipments and export controls compliance, including from the U.S. Department of Justice, the U.S. Commerce Department Bureau of Industry and Security, and the U.S. Securities and Exchange Commission. We are cooperating fully with the U.S. government in these matters. We have continued to receive related subpoenas, as well as requests for information, and may in the future receive additional related subpoenas and requests for information from such or other government authorities. Any such inquiries are subject to uncertainties, and we cannot predict the outcome of these inquiries, or any other governmental inquires or proceedings that may occur. Any violation or alleged violation of law or regulations could result in significant legal costs or in legal proceedings in which we or our employees could be subjected to fines and penalties and could result in restrictions on our business and damage to our global brand and reputation, and could have a material and adverse impact on our business operations, financial condition and results of operations.15Table of ContentsFurthermore, government authorities may take retaliatory actions, impose conditions that require the use of local suppliers or partnerships with local companies, require the license or other transfer of sensitive data or intellectual property, or engage in other efforts to promote local businesses and local competitors, which could have a material and adverse impact on our business. Many of these challenges are present in China and Korea, markets that represent a significant portion of our business.We are exposed to risks associated with a highly concentrated customer base.A relatively limited number of customers account for a substantial portion of our business. Our customer base is geographically concentrated, particularly in China, Taiwan, Korea and Japan. As a result, the actions of even a single customer or export regulations that apply to customers in certain countries, such as those in China, have exposed and can further expose our business and operating results to greater volatility. The geographic concentration of our customer base could shift over time as a result of changes in technology and competitive landscape, as well as government policy and incentives to develop regional semiconductor industries. The mix and type of customers, and sales to any single customer, including as a result of changes in government policy, have varied and may vary significantly from quarter to quarter and from year to year, and have had, and may continue to have, a significant impact on our operating results. Our products are configured to customer specifications, and changing, rescheduling or canceling orders may result in significant, non-recoverable costs. If customers do not place orders, or they substantially reduce, delay or cancel orders (including as a result of uncertain or adverse economic conditions, our inability to fulfill orders due to export regulations, shortage of parts, transportation capacity/interruptions or any other reason), we may not be able to replace the business, which may have a material and adverse impact on our results of operations and financial condition. The concentration of our customer base increases our risks related to the financial condition of our customers, and the deterioration in financial condition of a single customer or the failure of a single customer to perform its obligations could have a material and adverse effect on our results of operations and cash flow. To the extent our customers experience liquidity constraints, we may incur bad debt expense, which may have a significant impact on our results of operations. Major customers may seek pricing, payment, intellectual property-related, or other commercial terms that are less favorable to us, which may have a negative impact on our business, cash flow, revenue and gross margins.Supply chain disruptions, manufacturing interruptions or delays, or the failure to accurately forecast customer demand, could affect our ability to meet customer demand, lead to higher costs, or result in excess or obsolete inventory.Our business depends on our timely supply of products and services to meet the changing requirements of our customers, which depends in part on the timely delivery of parts, materials and services from suppliers and contract manufacturers. Increases in demand for our products and worldwide demand for semiconductor chips and electronic devices can impact our suppliersâ€™ ability to meet our demand requirements, and have in the past resulted in, and may from time to time result in, a shortage of parts, materials and services needed to manufacture our products. Such shortages, as well as delays in and unpredictability of shipments due to transportation interruptions, have adversely impacted, and may continue to adversely impact, our manufacturing operations and our ability to meet customer demand. Volatility of demand for equipment can also increase our and our suppliersâ€™ capital, technical, operational and other risks, and may cause some suppliers to exit businesses, or scale back or cease operations, which could impact our ability to meet customer demand. Supply chain constraints may increase costs of logistics and parts for our products and may cause us to pass on increased costs to our customers, which may lead to reduced demand for our products and materially and adversely impact our operating results. Supply chain disruptions have in the past caused, and may from time to time cause, delays in our equipment production and delivery schedules, which can lead to our business performance becoming significantly dependent on quarter-end production and delivery schedules, and could have an adverse impact on our operating and financial results.Cybersecurity incidents affecting our suppliers could impact our supply chain. Such incidents have caused, and may from time to time cause, difficulties and delays in our ability to obtain parts, materials and services needed to manufacture our products and provide services, and have adversely impacted, and may from time to time adversely impact, our manufacturing operations, our ability to meet customer demand, and our operating results. Failure to timely recover from such delays could materially and adversely affect our business, financial condition and results of operations, and may also cause our business and financial outlook to be inaccurate.We may further experience supply chain disruptions, significant interruptions of our manufacturing operations, delays in our ability to deliver or install products or services, increased costs, customer order cancellations or reduced demand for our products as a result of:â€¢global trade issues and changes in and uncertainties with respect to trade and export regulations, trade policies and sanctions, tariffs, international trade disputes, particularly those relating to exports of certain technologies to China, where a significant portion of our supply chain is located, and any retaliatory measures, that adversely impact us or our direct or sub-tier suppliers;â€¢political instability, social unrest, terrorism, acts of war or other geopolitical turmoil, such as the conflict in the Middle East, in locations where we or our customers or suppliers have manufacturing, research, engineering or other operations;16Table of Contentsâ€¢the failure or inability to accurately forecast demand and obtain quality parts on a cost-effective basis;â€¢volatility in the availability and cost of parts, commodities, energy and shipping related to our products, including increased costs due to rising inflation or interest rates or other market conditions;â€¢difficulties or delays in obtaining required import or export licenses and approvals;â€¢shipment delays due to transportation interruptions or capacity constraints;â€¢a worldwide shortage of semiconductor components as a result of sharp increases in demand for semiconductor products in general;â€¢limited availability of feasible alternatives to materials subject to existing or proposed regulations to limit their use (such as hydrofluorocarbons and per- and polyfluoroalkyl substances), which are found in parts, components, process chemicals and other materials supplied to us or used in the manufacturing or operations of our products; â€¢information technology or infrastructure failures within our operations or those of a third-party supplier or service provider, including failures caused by cybersecurity incidents; impacts of natural disasters, extreme and chronic weather events (which may be exacerbated by climate change), or other events beyond our control (such as earthquakes, utility interruptions, tsunamis, hurricanes, typhoons, floods, storms or fires); andâ€¢regional or global health epidemics.If a supplier fails to meet our requirements concerning quality, cost, intellectual property protection, socially-responsible and sustainable business practices, or other performance factors, or does not meet regulatory requirements applicable to our supply chain, we may transfer our business to alternative sources. Transferring business to alternative suppliers could result in manufacturing delays, additional costs or other difficulties, and may impair our ability to protect, enforce and extract the full value of our intellectual property rights, and the intellectual property rights of our customers and other third parties. These outcomes could have a material and adverse impact on our business and competitive position and subject us to legal proceedings and claims. If we are unable to meet our customersâ€™ demand for a prolonged period due to our inability to obtain certain parts or components from suppliers on a timely basis or at all, our business, results of operations and customer relationships could be adversely impacted.If we need to rapidly increase our business and manufacturing capacity to meet increases in demand or expedited shipment schedules, this may strain our manufacturing and supply chain operations, and negatively impact our working capital. If we are unable to

accurately forecast demand for our products, we may purchase more or fewer parts than necessary or incur costs for canceling, postponing or expediting delivery of parts. If we purchase or commit to purchase inventory in anticipation of customer demand that does not materialize, or such inventory is rendered obsolete by the rapid pace of technological change, or if customers reduce, delay or cancel orders, we may incur excess or obsolete inventory charges.We are exposed to various factors that impact the industries in which we operate.The global semiconductor, display and related industries are characterized by factors that impact demand for and the profitability of our products and services and our operating results, including:â€¢the nature, timing and degree of visibility of changes in demand for semiconductor chips and electronic devices, including those related to fluctuations in consumer buying patterns tied to general economic or geopolitical conditions, seasonality or the introduction of new products, and the effects of these changes on customersâ€™ businesses and on demand for our products;â€¢increasing capital requirements for building and operating new fabrication plants and customersâ€™ ability to raise the necessary capital;â€¢trade, regulatory, tax or government incentives impacting the timing of customersâ€™ investment in new or expanded fabrication plants;â€¢differences in growth rates among the semiconductor, display and other industries in which we operate;â€¢the importance of establishing, improving and maintaining strong relationships with customers;â€¢the cost and complexity for customers to move from product design to volume manufacturing, which may slow the adoption rate of new manufacturing technology;â€¢the importance of reducing the total cost of manufacturing system ownership;â€¢the importance to customers of system reliability and productivity and the effect on demand for fabrication systems as a result of their increasing productivity, device yield and reliability;â€¢manufacturersâ€™ ability to reconfigure and re-use fabrication systems which can reduce demand for new equipment;â€¢the importance of developing products with sufficient differentiation to influence customersâ€™ purchasing decisions;17Table of Contentsâ€¢requirements for shorter cycle times for the development, manufacture and installation of our equipment;â€¢price and performance trends for semiconductor devices and displays, and the impact on demand for such products;â€¢the importance of the availability of spare parts to maximize the time that customersâ€™ systems are available for production;â€¢government incentives for local suppliers and domestic semiconductor research and development, and increased investment in manufacturing capabilities;â€¢the increasing role for and complexity of software in our products; andâ€¢the focus on reducing energy usage and improving the environmental impact and sustainability associated with manufacturing operations, and the availability of adequate and reliable sources of energy.If we do not effectively address these factors, our business and results of operations may be materially and adversely impacted. We are exposed to factors specific to the semiconductor industry.The largest proportion of our consolidated net revenue and profitability is derived from our Semiconductor Systems segmentâ€™s sale of a wide range of equipment used to fabricate semiconductor chips to the global semiconductor industry, and a majority of the revenues of Applied Global Services is from sales to semiconductor manufacturers. The semiconductor industry is characterized by factors particular to this industry that impact demand for and the profitability of our semiconductor manufacturing equipment and service products, including:â€¢the frequency and complexity of technology transitions and inflections, and our ability to timely and effectively anticipate and adapt to these changes;â€¢the cost of research and development due to many factors, including shrinking geometries, the use of new materials, new and more complex device structures, more applications and process steps, increasing chip design costs, and the cost and complexity of integrated manufacturing processes;â€¢the need to reduce product development time and meet technical challenges;â€¢the number of types and varieties of semiconductors and number of applications;â€¢the cost and complexity for semiconductor manufacturers to move more technically advanced capability and smaller geometries to volume manufacturing, and the impact on investment in capital equipment;â€¢semiconductor manufacturersâ€™ levels of capital expenditures and the allocation of capital investment to market segments that we do not serve, such as lithography, or segments where our products have lower relative market presence;â€¢delays in installation of our equipment delivered to customers;â€¢the importance of increasing market positions in segments with growing demand;â€¢semiconductor manufacturersâ€™ ability to reconfigure and re-use equipment, resulting in diminished need to purchase new equipment and services from us, and challenges in providing parts for reused equipment;â€¢shorter cycle times between order placements by customers and product shipment require greater reliance on forecasting of customer investment, which may lead to inventory write-offs and manufacturing inefficiencies that decrease gross margin;â€¢competitive factors that make it difficult to enhance position, including challenges in securing development-tool-of-record (DTOR) and production-tool-of-record (PTOR) positions with customers;â€¢consolidation in the semiconductor industry, including among semiconductor manufacturers and among semiconductor equipment suppliers;â€¢shifts in sourcing strategies by computer and electronics companies, and manufacturing processes for advanced circuit technologies, that impact the equipment requirements of our foundry customers;â€¢the concentration of new wafer starts in Korea and Taiwan, where our service penetration and service-revenue-per-wafer-start have been lower than in other regions; â€¢the increasing fragmentation of semiconductor markets, leading certain markets to become too small to support the cost of a new fabrication plant, while others require less technologically advanced products; the continuing importance of specialty markets (such as internet of things, communications, automotive, power and sensors) that use process technologies that have a low barrier to entry; and18Table of Contentsâ€¢the importance of advanced packaging to artificial intelligence computing. If we do not accurately forecast and allocate appropriate resources and investment towards addressing key technology changes and inflections, successfully develop and commercialize products to meet demand for new technologies, and effectively address industry trends, our business and results of operations may be materially and adversely impacted.We are exposed to factors specific to the display industry.The global display industry has experienced considerable volatility in capital equipment investment levels, due in part to the limited number of display manufacturers, the concentrated nature of end-use applications, production capacity relative to end-use demand, the speed of adopting new technologies into production, and panel manufacturer profitability. Industry growth depends primarily on consumer demand for increasingly larger and more advanced TVs, and on demand for advanced smartphones and mobile device displays, which demand is highly sensitive to cost and improvements in technologies and features. The display industry is characterized by factors particular to this industry that impact demand for and the profitability of our display products and services, including:â€¢the importance of new types of display technologies, such as organic light-emitting diode (OLED), low temperature polysilicon (LTPS) and metal oxide transistor backplanes, flexible displays, and new touch panel films;â€¢the increasing cost of research and development, and complexity of technology transitions and inflections, and our ability to timely and effectively anticipate and adapt to these changes;â€¢the timing and extent of an expansion of manufacturing facilities in China, which may be affected by changes in economic conditions and governmental regulations, including trade policies and export regulations;â€¢the importance of increasing market positions in products and technologies with growing demand;â€¢the rate of transition to new display technologies for TVs, information technology products and mobile applications, and augmented and virtual reality applications, and the resulting effect on capital intensity in the industry and on our product differentiation, gross margin and return on investment;â€¢the concentration of display manufacturer customers, and fluctuations in customer spending quarter over quarter and year over year for display fabrication equipment; andâ€¢the dependence on a limited number of display manufacturer customersâ€™ selection of new technologies, and their ability to successfully commercialize new products and technologies, and uncertainty with respect to future display technology end-use applications and growth drivers.The display industry has experienced decreased levels of investment in display fabrication equipment. If we do not successfully develop and commercialize products to meet demand for new and emerging display technologies, or if industry demand for display fabrication equipment and technologies does not grow, our business and our operating results may continue to be adversely impacted.The industries in which we operate are highly competitive and subject to rapid technological and market changes.We operate in a highly competitive environment in which innovation is critical, and our future success depends on many factors, including the development of new technologies and effective commercialization and customer acceptance of our equipment, services and related products, and our ability to increase our position in our current markets, expand into adjacent and new markets, and optimize operational performance. The development, introduction and support of products in a geographically diverse and competitive environment requires collaboration with customers and other industry participants, which has grown more complex and expensive over time. New or improved products may entail higher costs, longer development cycles, lower profits and may have unforeseen product design or manufacturing defects. To compete successfully, we must:â€¢identify and address technology inflections, market changes, competitor innovations, new applications, customer requirements and end-use demand in a timely and effective manner;â€¢develop new products and disruptive technologies, improve and develop new applications for existing products, and adapt products for use by customers in different applications and markets with varying technical requirements;â€¢complete major infrastructure projects on schedule and on budget, and realize the anticipated benefits of those projects;â€¢differentiate our products from those of competitors, meet customersâ€™ performance specifications (including those related to energy consumption and environmental impact more broadly), appropriately price products, and achieve market acceptance;â€¢maintain operating flexibility to enable responses to changing markets, applications and customer requirements;19Table of Contentsâ€¢enhance our worldwide operations across our businesses to reduce cycle time, enable continuous quality improvement, reduce costs, and enhance design for manufacturability and serviceability;â€¢focus on product development and sales and marketing strategies that address customersâ€™ high value problems and strengthen customer relationships;â€¢effectively allocate resources between our existing products and markets, the development of new products, and expanding into new and adjacent markets;â€¢improve the productivity of capital invested in R&D activities;â€¢accurately forecast demand, work with suppliers and meet production schedules for our products;â€¢improve our manufacturing processes and achieve cost efficiencies across product offerings;â€¢adapt to changes in value offered by companies in different parts of the supply chain;â€¢qualify products for evaluation and volume manufacturing with our customers; and â€¢implement changes in our design engineering methodology to reduce material costs and cycle time, increase commonality of platforms and types of parts used in different systems, and improve product life cycle management.If we do not successfully anticipate technology inflections, develop and commercialize new products and technologies, and respond to changes in customer requirements and market trends, our business performance and operating results may be materially and adversely impacted.We are exposed to risks related to government incentives and other agreements that may involve government entities.From time to time we enter into agreements with government entities for grants, tax benefits and other incentives, or other funding related to our investment, research and development and production activities, or for sale of our products to government entities or government-funded programs. These agreements typically include terms that are not common in similar agreements with non-governmental entities, including representations and warranties, covenants and certifications, and record-keeping, accounting, audit, intellectual property rights-sharing, information handling, supply chain management, headcount, security, disclosure and other requirements. These agreements may also require us to achieve or maintain certain levels of investment, capital spending and performance milestones. Compliance with these requirements may add complexity to our operations and increase our costs, and a failure to comply could result in cancelation of agreements or transactions, investigations, civil and criminal penalties, forfeiture of profits, reduction, termination or clawback of any funding, suspension or debarment from doing business with the government, or other penalties, any of which could have a material and adverse effect on our business, financial condition and results of operations.We are exposed to risks associated with expanding into new and related markets and industries.As part of our growth strategy, we seek to continue to expand into related or new markets and industries, either with our existing products or with new products developed internally, or those developed in collaboration with third parties, or obtained through acquisitions. Our ability to successfully expand our business into new and related markets and industries may be adversely affected by a number of factors, including:â€¢the need to devote additional resources to develop new products for, and operate in, new markets;â€¢the need to develop new sales and technical marketing strategies, and to develop relationships with new customers;â€¢differing rates of profitability and growth among multiple businesses;â€¢our ability to anticipate demand, capitalize on opportunities, and avoid or minimize risks;â€¢the complexity of managing multiple businesses with variations in production planning, execution, supply chain management and logistics;â€¢the adoption of new business models, business processes and systems;â€¢the complexity of entering into and effectively managing strategic alliances or partnering opportunities;â€¢new materials, processes and technologies;â€¢the need to attract, motivate and retain employees with skills and expertise in these new areas;â€¢new and more diverse customers and suppliers, including some with limited operating histories, uncertain or limited funding, evolving business models or locations in regions where we do not have, or have limited, operations;â€¢new or different competitors with potentially more financial or other resources, industry experience and established customer relationships;20Table of Contentsâ€¢entry into new industries and countries, with differing levels of government involvement, laws and regulations, and business, employment and safety practices and requirements;â€¢third partiesâ€™ intellectual property rights; andâ€¢the need to comply with, or work to establish, industry standards and practices.We are exposed to risks related to the use of artificial intelligence by us and our competitors. We are increasingly incorporating artificial intelligence capabilities into the development of technologies and our business operations, and into our products and services. Artificial intelligence technology is complex and rapidly evolving, and may subject us to significant competitive, legal, regulatory, operational and other risks. The implementation of artificial intelligence can be costly, and there is no guarantee that our use of artificial intelligence will enhance our technologies, benefit our business operations, or produce products and services that are preferred by our customers. Our competitors may be more successful in their artificial intelligence strategy and develop superior products and services with the aid of artificial intelligence technology. Additionally, artificial intelligence algorithms or training methodologies may be flawed, and datasets may contain irrelevant, insufficient or biased information, which can cause errors in outputs. This may give rise to legal liability, damage our reputation, and materially harm our business. The use of artificial intelligence in the development of our products and services could also cause loss of intellectual property, as well as subject us to risks related to intellectual property infringement or misappropriation, data privacy and cybersecurity. Additionally, artificial intelligence technology may also create ethical issues, which could impair market adoption of such technology and impair demand for our products and services. Furthermore, the United States and other countries may adopt laws and regulations related to artificial intelligence. Such laws and regulations could cause us to incur greater compliance costs and limit the use of artificial intelligence in the development of our products and services. Any failure or perceived failure by us to comply with such regulatory requirements could subject us to legal liabilities, damage our reputation, or otherwise have a material and adverse impact on our business.Operational and Financial RisksWe are exposed to risks related to protection and enforcement of intellectual property rights.Our success depends on the protection of our technology using patents, trade secrets, copyrights and other intellectual property rights. Infringement or misappropriation of our intellectual property rights, such as the manufacture or sale of equipment or spare parts that use our technology without authorization, could result in uncompensated lost market and revenue opportunities. Monitoring and detecting any unauthorized access, use or disclosure of our intellectual property is difficult and costly and we cannot be certain that the protective measures we have implemented will completely prevent misuse. Our ability to enforce our intellectual property rights is subject to litigation risks and uncertainty as to the protection and enforceability of those rights in some countries. If we seek to enforce our intellectual property rights, we may be subject to claims that those rights are invalid or unenforceable, and others may seek counterclaims against us, which could have a negative impact on our business. If we are unable to enforce and protect intellectual property rights, or if they are circumvented, rendered obsolete, invalidated by the rapid pace of technological change, or stolen or misappropriated by employees or third parties, it could have an adverse impact on our competitive position and business. Changes in intellectual property laws or their interpretation may impact our ability to protect and assert our intellectual property rights, increase costs and uncertainties in the prosecution of patent applications or related enforcement actions, and diminish the value and competitive advantage conferred by our intellectual property assets.From time to time third parties have asserted, and may continue to assert, intellectual property claims against us and our products. Claims that our products infringe the rights of others, whether or not meritorious, can be expensive and time-consuming to defend and resolve, and may divert the efforts and attention of management and personnel. The inability to obtain rights to use third-party intellectual property on commercially reasonable terms could have an adverse impact on our business. We may face claims based on the theft or unauthorized use or disclosure of third-party trade secrets and other confidential business information. Any such incidents and claims could severely harm our business and reputation, result in significant expenses, harm our competitive position, and prevent us from selling certain products, all of which could have a material and adverse impact on our business and results of operations.We are exposed to cybersecurity threats and incidents.In the conduct of our business, we collect, use, transmit, store, and otherwise process data using information technology systems, including systems

owned and maintained by us or our third-party providers. These data include confidential information and intellectual property belonging to us or our customers or other business partners, and personal information of individuals. All information technology systems are subject to disruptions, outages, failures, and security breaches or incidents, which may be caused by a variety of internal and external factors. We and our third-party providers have experienced, and expect to continue to experience, cybersecurity incidents. Cybersecurity incidents may range from physical attacks on our computer system or network infrastructure, to employee or contractor error or misuse or unauthorized use of information 21Table of Contentstechnology systems or confidential information, to individual attempts to gain unauthorized access to these information systems, to sophisticated cybersecurity attacks, or advanced persistent threats, any of which may target or impact us directly or indirectly through our third-party providers and global supply chain. Threat actors may also attempt to influence employees, suppliers and other third-party providers, or customers to disclose sensitive information in order to gain access to our, our customersâ€™ or business partnersâ€™ data. Cybersecurity attacks are increasing in number and the attackers are increasingly organized and well-financed, or at times supported by state actors. Geopolitical tensions or conflicts, such as Russiaâ€™s invasion of Ukraine and increasing tension with China, may create a heightened risk of cybersecurity attacks. To the extent artificial intelligence capabilities improve and are increasingly adopted by threat actors, they may be used to identify vulnerabilities and craft increasingly sophisticated cybersecurity attacks. Artificial intelligence and deepfake technologies could be used to attack information systems by creating more effective phishing emails or social engineering and by exploiting vulnerabilities in electronic security programs utilizing false image or voice recognition. Vulnerabilities, technical errors and other risks may be introduced through the use of artificial intelligence by us, our customers, suppliers and other business partners and third-party providers, or through the use of third-party hardware and software. Although we are not aware of any cybersecurity incidents impacting our information systems that have been determined to have a material impact on us to date, we continue to devote significant resources to network security, data encryption, and other measures to protect our systems and data from unauthorized access or misuse, and we may be required to expend greater resources in the future, especially in the face of evolving and increasingly sophisticated cybersecurity threats and laws, regulations, and other actual and asserted obligations to which we are or may become subject relating to privacy, data protection, and cybersecurity. We may be unable to anticipate, prevent, or remediate future attacks, vulnerabilities, breaches, or incidents, and in some instances we may be unaware of vulnerabilities or cybersecurity breaches or incidents or their magnitude and effects, particularly as attackers are increasingly able to circumvent controls and remove forensic evidence. Cybersecurity incidents, including cybersecurity incidents on third-party provider networks, may result in business disruption; delay in the development and delivery of our products; disruption of our manufacturing processes, internal communications, interactions with customers and suppliers and processing and reporting financial results; the theft or misappropriation of intellectual property; corruption, loss of, or inability to access (e.g., through ransomware or denial of service) confidential information and critical data (i.e., that of our company and our third-party providers and customers); reputational damage; private claims, demands, and litigation or regulatory investigations, enforcement actions, or other proceedings related to contractual or regulatory privacy, cybersecurity, data protection, or other confidentiality obligations; diminution in the value of our investment in research, development and engineering; and increased costs associated with the implementation of cybersecurity measures to detect, deter, protect against, and recover from such incidents. Our efforts to comply with, and changes to, laws, regulations, and contractual and other actual and asserted obligations concerning privacy, cybersecurity, and data protection, including developing restrictions on cross-border data transfer and data localization, could result in significant expense, and any actual or alleged failure to comply could result in inquiries, investigations, and other proceedings against us by regulatory authorities or other third parties. Customers and third-party providers increasingly demand rigorous contractual provisions regarding privacy, cybersecurity, data protection, confidentiality, and intellectual property, which may increase our overall compliance burden.We are exposed to risks associated with business combinations, acquisitions, strategic investments and divestitures.We may engage in acquisitions of or investments in companies, technologies or products in existing, related or new markets. Business combinations, acquisitions and investments involve numerous risks to our business, financial condition and operating results, including:â€¢inability to complete proposed transactions timely or at all due to the failure to obtain regulatory or other approvals, including through expanding global national security regimes that impose prohibitions on foreign investments in or acquisitions of local businesses; litigation or other disputes, and any ensuing obligation to pay a termination fee;â€¢diversion of managementâ€™s attention and disruption of ongoing businesses;â€¢the failure to realize expected revenues, gross and operating margins, net income and other returns from acquired businesses;â€¢requirements imposed by government regulators in connection with their review of a transaction, which may include, among other things, divestitures and restrictions on the conduct of our existing business or the acquired business;â€¢following completion of acquisitions, ineffective integration of businesses, operations, systems, digital and physical security, technologies, products, employees, compliance programs, changes in laws or regulations, including tax laws, or other factors, may impact the ability to realize anticipated synergies or other benefits;â€¢failure to commercialize technologies from acquired businesses or developed through strategic investments;â€¢dependence on unfamiliar supply chains or relatively small supply partners;â€¢inability to capitalize on characteristics of new markets that may be significantly different from our existing markets and where competitors may have stronger market positions and customer relationships;22Table of Contentsâ€¢failure to retain and motivate key employees of acquired businesses;â€¢the impact of the announcement or consummation of a proposed transaction on relationships with third parties;â€¢changes in our credit rating, which could adversely impact our access to and cost of capital;â€¢increases in debt obligations to finance activities associated with a transaction, which increase interest expense, and reductions in cash balances, which reduce the availability of cash flow for general corporate or other purposes, including share repurchases and dividends;â€¢exposure to new operational risks, rules, regulations, worker expectations, customs and practices to the extent acquired businesses are located in regions where we have not historically conducted business;â€¢challenges associated with managing new, more diverse and more widespread operations, projects and people;â€¢inability to obtain and protect intellectual property rights in key technologies;â€¢inadequacy or ineffectiveness of an acquired companyâ€™s internal financial controls, disclosure controls and procedures, cybersecurity, privacy policies and compliance programs, or environmental, health and safety, anti-corruption, human resource, or other policies or practices;â€¢impairment of acquired intangible assets and goodwill as a result of changing business conditions, technological advancements or worse-than-expected performance of the segment;â€¢the risk of litigation or claims associated with a proposed or completed transaction;â€¢unknown, underestimated, undisclosed or undetected commitments or liabilities, including potential intellectual property infringement claims, or non-compliance with laws, regulations or policies; andâ€¢the inappropriate scale of acquired entitiesâ€™ critical resources or facilities for business needs.We make investments in other companies, including companies formed as joint ventures, which may decline in value or not meet desired objectives. The success of these investments depends on various factors over which we may have limited or no control and, particularly with respect to joint ventures, requires ongoing and effective cooperation with partners. In addition, new legislation, additional regulations or global economic or political conditions may affect or impair our ability to invest in certain countries or require us to obtain regulatory approvals to do so. We may not receive the necessary regulatory approvals, or the approvals may come with significant conditions or obligations. The risks to our investment portfolio may be exacerbated by unfavorable financial market and macroeconomic conditions and, as a result, the value of the investment portfolio could be negatively impacted and lead to impairment charges.We may seek to divest portions of our business that are not deemed to fit with our strategic plan. Divestitures involve additional risks and uncertainties, such as ability to sell such businesses on satisfactory price and terms and in a timely manner, or at all, disruption to other parts of the businesses and distraction of management, allocation of internal resources that would otherwise be devoted to completing strategic acquisitions or other strategic projects or initiatives, loss of key employees or customers, loss of access by retained business units to critical intellectual property or other assets transferred with the divested business, exposure to unanticipated liabilities or ongoing obligations to support the businesses following such divestitures, and other adverse financial impacts.The ability to attract, retain and motivate key employees is vital to our success.Our success depends in large part on our ability to attract, retain and motivate qualified employees and leaders with the necessary expertise and capabilities, representing diverse backgrounds and experiences. Achieving this objective may be difficult due to many factors, including fluctuations in global economic and industry conditions, management or organizational changes, ongoing competition for talent, the availability of qualified employees, the ability to obtain necessary authorizations for workers to provide services outside their home countries, the attractiveness of our compensation and benefit programs, our career growth and development opportunities, and our employment policies. If we are unable to attract, retain and motivate qualified employees and leaders, we may be unable to fully capitalize on current and new market opportunities, which could adversely impact our business and results of operations. The loss of knowledgeable and experienced employees may result in unexpected costs, reduced productivity, or difficulties with respect to internal processes and controls.We operate in jurisdictions with complex and changing tax laws.We are subject to income taxes in the United States and foreign jurisdictions. Significant judgment is required to determine and estimate worldwide tax liabilities. Our provision for income taxes and effective tax rates could be affected by numerous factors, including changes in applicable tax laws, interpretations of applicable tax laws, amount and composition of pre-tax income in jurisdictions with differing tax rates, and valuation of deferred tax assets. There have been a number of proposed changes in the tax laws that could have a material impact on our provision for 23Table of Contentsincome taxes and effective tax rate. An increase in our provision for income taxes and effective tax rate could, in turn, have a material and adverse impact on our results of operations and financial condition. For example, several countries where we do business have enacted global minimum tax regimes based on the Organization for Economic Cooperation and Development (â€œOECDâ€) Base Erosion and Profit Shifting Project. This will change various aspects of the existing framework under which our global tax obligations are determined, and will unfavorably impact our existing tax incentives and effective tax rate, beginning in fiscal 2025. The OECD continues to release additional guidance on this new global minimum tax framework. We will continue to monitor these developments, as each jurisdiction incorporates changes into its tax laws.Our conditional reduced tax rates in Singapore will expire in fiscal 2025, excluding potential renewal and subject to certain conditions with which we expect to comply. There is risk our conditional reduced tax rates may not be renewed.Consistent with the international nature of our business, we conduct certain manufacturing, supply chain, and other operations in Asia, bringing these activities closer to customers and reducing operating costs. In some foreign jurisdictions, we must meet certain requirements to continue to qualify for tax incentives. There is no assurance we will be able to meet such requirements in the future to fully realize benefits from these incentives. Furthermore, the proposed plans to implement global minimum tax regimes could reduce or eliminate the benefits of our tax incentives.We are subject to examination by the U.S. Internal Revenue Service and other tax authorities, and from time to time amend previously filed tax returns. We regularly assess the likelihood of favorable or unfavorable outcomes resulting from these examinations and amendments to determine the adequacy of our provision for income taxes, which requires estimates and judgments. Although we believe our tax estimates are reasonable, there can be no assurance the tax authorities will agree with such estimates. We may have to engage in litigation to achieve the results reflected in the estimates, which may be time-consuming and expensive. There can be no assurance that we will be successful or that any final determination will not be materially different from the treatment reflected in our historical income tax provisions and effective tax rates.Our indebtedness and debt covenants could adversely affect our financial condition and business.As of OctoberÂ 27, 2024, we had $6.2 billion in aggregate principal amount of senior unsecured notes outstanding. Under the indenture governing the senior unsecured notes, we may be required to offer to repurchase the notes at a price equal to 101% of the principal amount, plus accrued and unpaid interest, if we experience a change of control and a contemporaneous downgrade of the notes below investment grade. We also have in place a $1.5 billion revolving credit facility. While no amounts were outstanding under this credit facility as of OctoberÂ 27, 2024, we may borrow amounts in the future under this credit facility or enter into new financing arrangements. Our ability to satisfy our debt obligations is dependent upon the results of our business operations and subject to other risks discussed in this section. If we fail to satisfy our debt obligations, or comply with financial and other debt covenants, we may be in default and any borrowings may become immediately due and payable, and such default may constitute a default under our other obligations. There can be no assurance that we would have sufficient financial resources or be able to arrange financing to repay any borrowings at such time. Significant changes in our credit rating, disruptions in the global financial markets, or incurrence of new or refinancing of existing indebtedness at higher interest rates could have a material and adverse impact on our access to and cost of capital for future financings, and financial condition. Our business depends on the successful implementation and proper functioning of information systems we use. Our business depends on certain information systems, including, enterprise resource planning, product research and development, financial reporting, information technology network management, and telecommunications. These systems may be maintained by us or by our third-party vendors. Failures of information systems we use could disrupt our operations, impede our ability to timely and accurately process and report financial results, and adversely impact our business, financial condition and results of operations. We periodically implement new or enhanced information systems. Implementation of new business processes and information systems requires the commitment of significant personnel, training and financial resources, and entails risks to our business operations. If the implementation or improvement of information systems is delayed or unsuccessful, , we may not realize anticipated productivity improvements or cost efficiencies, and may experience interruptions in service and operational difficulties, which could result in quality issues, reputational harm, lost market and revenue opportunities, and otherwise adversely affect our business, financial condition and results of operations.We may incur impairment charges related to goodwill or long-lived assets.We have a significant amount of goodwill and other acquired intangible assets related to acquisitions. Goodwill and purchased intangible assets with indefinite useful lives are not amortized but are reviewed for impairment annually during the fourth quarter of each fiscal year, and more frequently when events or changes in circumstances indicate the carrying value of an asset may not be recoverable. The review compares the fair value for each of our reporting units to its associated carrying value, including goodwill. Factors that could lead to impairment of goodwill and intangible assets include adverse industry or 24Table of Contentseconomic trends, reduced estimates of future cash flows, declines in the market price of our common stock, changes in our strategies or product portfolio, and restructuring activities. Our valuation methodology for assessing impairment requires management to make judgments and assumptions based on historical experience and projections of future operating performance. We may be required to record future charges to earnings during the period in which an impairment of goodwill or intangible assets is determined to exist.We may not continue to declare cash dividends or repurchase our shares.Our ability to continue to pay quarterly dividends and to repurchase our shares is subject to capital availability and periodic determinations by our Board of Directors that cash dividends and share repurchases are in the best interest of our stockholders and are in compliance with applicable laws and agreements. Future dividends and share repurchases may be affected by, among other factors, our cash flow; potential future capital requirements for investments, acquisitions, infrastructure projects, and research and development; changes in applicable tax, corporate, or other laws; contractual restrictions, such as financial or operating covenants in our debt arrangements; and changes to our business model. Our dividend payments and share repurchases may change from time to time, and we cannot provide assurance that we will continue to declare dividends or repurchase shares in any particular amounts or at all. A reduction or suspension in our dividend payments or share repurchases could have a negative effect on the price of our common stock.Legal, Compliance, and Other RisksWe are exposed to risks related to legal proceedings, claims and investigations.From time to time we are, and in the future may be, involved in legal proceedings or claims regarding patent infringement, trade secret misappropriation, other intellectual property rights, trade compliance, including import, export and customs, antitrust, environmental regulations, cybersecurity, privacy, data protection, securities, contracts, product performance, product liability, unfair competition, employment, workplace safety, and other matters. We may receive, and have received, inquiries, warrants, subpoenas, and other requests for information in connection with government investigations of potential or suspected violations of law or regulations by our company and/or our employees. For example, we have received subpoenas from government authorities requesting information relating to China customer shipments, export controls compliance, certain federal award applications and information submitted to the federal government. We also on occasion receive notifications from customers who believe we owe them indemnification, product warranty or have other obligations related to claims made against such customers by third parties.Legal proceedings, claims, and government investigations, whether with or without merit, and internal investigations, may be time-consuming and expensive

to prosecute, defend or conduct; divert managementâ€™s attention and our other resources; constrain our ability to sell our products and services; result in adverse judgments for damages, injunctive relief, penalties and fines; and negatively affect our business. We cannot predict the outcome of current or future legal proceedings, claims or investigations.We are exposed to risks related to the global regulatory environment.We are subject to the laws of the United States and multiple foreign jurisdictions and the rules and regulations of various governing bodies, which may differ among jurisdictions, including those related to financial and other disclosures, accounting standards, securities, corporate governance, public procurement and public funding, intellectual property, tax, trade (including import, export and customs), antitrust, cybersecurity, environment (including those relating to sustainability and climate), health and safety, employment, immigration and travel regulations, human rights, privacy, data protection and localization, and anti-corruption. Changing, inconsistent or conflicting laws, rules and regulations, and ambiguities in their interpretation and application create uncertainty and challenges, and compliance with laws, rules and regulations may be onerous and expensive, divert management time and attention from revenue-generating activities, and otherwise adversely impact our business operations. Violations of law, rules and regulations, including, among others, those related to financial and other disclosures, trade (including import and export regulations), antitrust, environment, health and safety, privacy, data protection, and anti-corruption, could result in fines, criminal penalties, restrictions on our business, and damage to our reputation, and could have an adverse impact on our business operations, financial condition and results of operations.Implementation and reporting on our sustainability strategies and targets could result in additional costs, and our inability to achieve them could have an adverse impact on our reputation and performance.We periodically communicate our strategies and targets related to sustainability matters, including greenhouse gas emissions, the sustainability of our products, diversity and inclusion, and human rights. These strategies and targets, and their underlying assumptions, reflect our current plans and aspirations, and we may be unable to achieve them. Changing customer and shareholder sustainability expectations, including increasing customer demand for sustainable products, and regulatory requirements, as well as actions taken to achieve our sustainability targets, could cause us to incur substantial expense and alter our manufacturing, operations or equipment designs and processes. Any failure or perceived failure to timely meet these 25Table of Contentssustainability requirements, expectations or targets, or a failure to realize the anticipated benefits of planned investments and technology innovations related to sustainability, could adversely impact the demand for our products and subject us to significant costs and liabilities and reputational risks that could in turn adversely affect our business, financial condition and results of operations. In addition, standards and processes for measuring and reporting greenhouse gas emissions and other sustainability metrics may change over time, and may result in inconsistent data, increase our costs, result in significant revisions to our strategies and targets, or impact our ability to achieve them. We also are or may become subject to new climate and sustainability laws and regulations, such as the State of Californiaâ€™s new climate change disclosure rules, the European Unionâ€™s Corporate Sustainability Reporting Directive and the United States Securities and Exchange Commissionâ€™s rules on climate-related risks. Compliance with such laws and regulations, as well as increased scrutiny from regulators, customers and other stakeholders on our sustainability practices, could result in additional costs and expose us to new risks. Any scrutiny of our greenhouse gas emissions or other sustainability disclosures, our failure to achieve related strategies and targets, or our failure to disclose our sustainability measures consistent with applicable laws and regulations or to the satisfaction of regulators or our stakeholders could negatively impact our reputation or performance.We are subject to risks associated with environmental, health and safety regulations.We are subject to environmental, health and safety regulations in connection with our global business operations, including but not limited to: regulations related to the design, manufacture, sale, shipping, import, export and use of our products; use, handling, discharge, recycling, transportation and disposal of hazardous materials used in our products or in producing our products; the operation of our facilities; and the use of our real property, including in connection with construction of our infrastructure projects. The failure or inability to comply with existing or future environmental, health and safety regulations could result in: significant remediation or other legal liabilities; the imposition of penalties and fines; restrictions on the development, manufacture, sale, shipping or use of certain of our products; limitations on the operation of our facilities or ability to use our real property; and a decrease in the value of our real property. We could be required to alter our product design, manufacturing, and operations, and incur substantial expense in order to comply with environmental, health and safety regulations, including reporting requirements. Any failure to comply with these regulations could subject us to significant costs and liabilities that could materially and adversely affect our business, financial condition and results of operations.26Table of ContentsItem 1B:Â Â Â Â Â Â Unresolved Staff CommentsNone.Item 1C:Â Â Â Â Â CybersecurityRisk Management and StrategyWe have implemented processes for assessing, identifying and managing material risks from cybersecurity threats as part of our cybersecurity risk management program. This program includes processes for continuous cybersecurity risk and advanced persistent cybersecurity threat monitoring; cybersecurity attack, vulnerability and cloud security management; and penetration testing. Our cybersecurity risk management program includes a cybersecurity incident response plan and escalation protocols; cybersecurity and data protection policies and training to our employees; a supply chain cybersecurity program to increase awareness, assess supplier security controls, help improve supplier security controls and manage security incidents; a program to protect company, customer and supplier intellectual property by operationalizing strategy, policy and awareness; a privacy and data protection program to keep pace with rapidly evolving global data laws and regulations as well as emerging technologies; engagement of third-party auditors to help assure the effectiveness of internal controls, including cybersecurity controls; and partnership with industry groups, government agencies and third-party experts in an effort to continuously improve our cybersecurity risk management program. We conduct assessments based on the National Institute of Standards and Technology Cybersecurity (â€œNISTâ€) Framework to evaluate our program, and we engage third-parties for assistance and to independently assess, proactively monitor, and provide an external view of our cybersecurity program. We conduct risk assessments and tabletop exercises to evaluate the effectiveness of our systems and processes in addressing cybersecurity threats, including threats associated with our use of third-party service providers, and to identify areas for improvements. Our cybersecurity risk management program is integrated with our enterprise risk management (â€œERMâ€) program, and information about cybersecurity risks and our cybersecurity risk management program is reviewed as part of our ERM program, sharing common risk governance and reporting processes that apply across our ERM program.While we are not aware of having directly experienced a cybersecurity incident that has materially impacted our business, financial condition or results of operations, we face risks from cybersecurity threats that, if realized, could reasonably likely materially affect us, our business strategy, results of operations, or financial condition. See â€œRisk Factors - Operational and Financial Risks â€“ We are exposed to cybersecurity threats and incidentsâ€ for additional information about cybersecurity related risks.Governance Our Board of Directors is responsible for overseeing the assessment of major risks facing us, and its Audit Committee oversees our ERM program, including oversight of cybersecurity risks and of our cybersecurity risk management program. The Audit Committee receives quarterly reports from management on our cybersecurity risks and cybersecurity risk management program, and our management regularly updates the Chair of the Audit Committee regarding cybersecurity incidents where appropriate in accordance with our cybersecurity incident response plan and escalation protocols. The Audit Committee reports to the full Board regarding its activities, including those related to cybersecurity, and management reports to the full Board on our cybersecurity risks and cybersecurity risk management program at least annually. Our management has day-to-day responsibility for assessing and managing material risks from cybersecurity threats, including implementing risk mitigation plans, processes and controls, and managing our cybersecurity risk management program. Our Chief Information Security Officer (â€œCISOâ€), who has more than 20 years of experience in information security management, is primarily responsible for managing our cybersecurity risk management program, cybersecurity incident response plan and escalation protocols, and reports at least quarterly to the Audit Committee and at least annually to the full Board on our cybersecurity, data and intellectual property security programs, policies, risks and controls. The CISO reports to our Chief Information Officer (â€œCIOâ€), who has more than 30 years of experience in information technology and is responsible for administering secure and scalable security infrastructure. The CIO reports to our Chief Digital Officer, who has more than 37 years of experience in information technology. Our management teamâ€™s efforts to prevent, detect, mitigate and remediate cybersecurity risks and incidents are informed by reviews with our information technology security teams, receipt of threat intelligence and other information obtained from governmental, public or private sources, including external consultants engaged by us, periodic assessments against the NIST Framework and through alerts and reports produced by security tools deployed in our information technology environment.27Table of ContentsItem 2:Â Â Â Â Â Â PropertiesWe own and lease facilities throughout the world for use as offices, manufacturing facilities, warehouses, and research and development centers, primarily in the United States, Taiwan, Singapore, China, Israel and India. As of OctoberÂ 27, 2024, we owned and leased approximately 9.0 million square feet and 4.9 million square feet of space, respectively. Our headquarters are in Santa Clara, California. Our products are manufactured primarily in the United States, Singapore, Israel and Taiwan. Because of the interrelation of our operations, properties within a country may be shared by the segments operating within that country.We also own a total of approximately 279 acres of buildable land primarily in the United States that could accommodate additional facilities.We consider the properties that we own or lease as adequate to meet our current and future requirements. We regularly assess the size, capability and location of our global infrastructure and periodically make adjustments based on these assessments.28Table of ContentsItem 3:Â Â Â Â Â Â Legal ProceedingsThe information set forth under â€œLegal Mattersâ€ in Note 13 of Notes to Consolidated Financial Statements is incorporated herein by reference. See also â€œRisk Factors â€“ Risks Related to Legal, Compliance, and Other Risks â€“ We are exposed to risks related to legal proceedings, claims and investigations.â€Â Item 4:Â Â Â Â Â Â Mine Safety DisclosuresNone.29Table of ContentsPARTÂ IIItem 5:Â Â Â Â Â Â Market for Registrantâ€™s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity SecuritiesMarket InformationÂ Our common stock is traded on the Nasdaq Global Select Market under the symbol AMAT. As of DecemberÂ 6, 2024, there were 2,692 registered holders of our common stock. Information regarding quarterly cash dividends declared on our common stock during fiscal 2024, 2023 and 2022 may be found under â€œManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operations - Financial Condition, Liquidity and Capital Resourcesâ€.Performance GraphThe performance graph below shows the five-year cumulative total stockholder return on our common stock during the period from OctoberÂ 27, 2019 through OctoberÂ 27, 2024. This is compared with the cumulative total return of the StandardÂ & Poorâ€™s 500 Stock Index and the PHLX Semiconductor Index over the same period. The comparison assumes $100 was invested on OctoberÂ 27, 2019 in our common stock and in each of the foregoing indices and assumes reinvestment of dividends, if any. Dollar amounts in the graph are rounded to the nearest whole dollar. The performance shown in the graph represents past performance and should not be considered an indication of future performance.The graph below assumes that the value of the investment in our common stock and in each of the indexes was $100 at OctoberÂ 27, 2019, and that all dividends were reinvested.CopyrightÂ© 2024 Standard & Poorâ€™s, a division of S&P global. All rights reserved.Â 10/27/201910/25/202010/31/202110/30/202210/29/202310/27/2024Applied Materials100.00Â 110.92Â 250.74Â 166.02Â 245.26Â 351.03Â S&P 500 Index100.00Â 116.84Â 157.60Â 135.57Â 145.49Â 208.23Â PHLX Semiconductor Index100.00Â 145.68Â 215.80Â 154.30Â 207.26Â 338.18Â 30Table of ContentsIssuer Purchases of Equity SecuritiesIn March 2023, our Board of Directors approved a common stock repurchase program authorizing $10.0Â billion in repurchases, which supplemented the previously existing $6.0 billion authorization approved in March 2022. At OctoberÂ 27, 2024, approximately $8.9 billion remained available for future stock repurchases under the repurchase program.The following table provides information as of OctoberÂ 27, 2024 with respect to the shares of common stock repurchased by us during the fourth quarter of fiscal 2024 pursuant to the foregoing Board authorization.PeriodTotal Number of Shares PurchasedAveragePriceÂ Paidper Share*AggregatePriceÂ Paid*TotalÂ NumberÂ ofSharesÂ PurchasedÂ asPart of PubliclyAnnouncedÂ Programs MaximumÂ DollarValue of SharesThat May Yet bePurchasedÂ Underthe Programs*Â (In millions, except per share amounts)Month #1(July 29, 2024 to August 25, 2024)1.5Â $195.93Â $292Â 1.5Â $10,030Â Month #2(August 26, 2024 to September 22, 2024)2.6Â $187.33Â 492Â 2.6Â $9,538Â Month #3(September 23, 2024 to October 27, 2024)3.5Â $191.41Â 669Â 3.5Â $8,869Â Total7.6Â $190.89Â $1,453Â 7.6Â *Amounts include the 1% surcharge on stock repurchases under the Inflation Reduction Actâ€™s excise tax. This excise tax is recorded in equity and reduces the amount available under the repurchase program, as applicable. Item 6:Â Â Â Â [Reserved]31Table of ContentsItem 7:Â Â Â Â Â Â Managementâ€™s Discussion and Analysis of Financial Condition and Results of OperationsIntroductionManagementâ€™s Discussion and Analysis of Financial Condition and Results of Operations (MD&A) is intended to facilitate an understanding of our business and results of operations. This MD&A should be read in conjunction with our Consolidated Financial Statements and the accompanying Notes to Consolidated Financial Statements included elsewhere in this FormÂ 10-K. The following discussion contains forward-looking statements and should also be read in conjunction with the cautionary statement set forth at the beginning of this FormÂ 10-K. The following section generally discusses 2024 and 2023 items and year-to-year comparisons between 2024 and 2023. Discussions of 2023 items and year-to-year comparisons between 2023 and 2022 that are not included in this Form 10-K can be found in "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Part II, Item 7 of our Annual Report on Form 10-K for the fiscal year ended OctoberÂ 29, 2023, filed on DecemberÂ 15, 2023.Â OverviewWe provide equipment, services and software to the semiconductor, display, and related industries. Our customers include manufacturers of semiconductor wafers and chips, liquid crystal and organic light-emitting diode (OLED) displays, and other electronic devices. Our customersâ€™ products are used in a wide variety of products such as personal computing devices, mobile phones, artificial intelligence (AI) and data center servers, automobiles, connected devices, industrial applications and consumer electronics. Each of our segments is subject to variable industry conditions, as demand for equipment and services can change depending on supply and demand for chips, display technologies and other electronic devices, as well as other factors, such as global economic, political and market conditions, and the nature and timing of technological advances in fabrication processes. Our strategic priorities include developing products that help solve customersâ€™ challenges at technology inflections; expanding our served market opportunities in the semiconductor and display industries; and growing our service business. Our long-term growth strategy requires continued development of new materials engineering capabilities, including products and platforms that enable expansion into new and adjacent markets. Our significant investments in research, development and engineering (RD&E) are intended to enable us to deliver new products and technologies before the emergence of strong demand, allowing customers to incorporate these products into their manufacturing plans during early-stage technology selection. We collaborate closely with our global customers to design systems and processes to meet their technical and production requirements.Our future operating results depend to a considerable extent on our ability to maintain a competitive advantage in the equipment and service products we provide. Development cycles depend on whether the product is an enhancement of an existing product, which typically has a shorter development cycle, or a new product, which typically has a longer development cycle. Most of our existing products resulted from internal development activities and innovations involving new technologies, materials and processes. In certain instances, we acquire technologies, either in existing or new product areas, to complement our existing technology capabilities and to reduce time to market. Product development and manufacturing activities occur primarily in the United States, Europe, Israel, and Asia. Our portfolio of equipment and service products are highly technical and are sold primarily through a direct sales force.We believe that it is critical to make substantial investments in RD&E to assure the availability of innovative technology that meets the current and projected requirements of our customersâ€™ most advanced designs. We have and continue to invest in RD&E in order to continue to offer new products and technologies.We operate in three reportable segments: Semiconductor Systems, Applied Global ServicesÂ® (AGS), and Display. A summary of financial information for each reportable segment is found in Note 14 of Notes to Consolidated Financial Statements. A discussion of factors that could affect our operations is set forth under â€œRisk Factorsâ€ in Part I, ItemÂ 1A, which is incorporated herein by reference. Our results are driven primarily by customer spending on capital equipment and services to support key technology transitions or to increase production volume in response to worldwide demand for semiconductors and displays. 32Table of ContentsThe Semiconductor Systems segment is comprised primarily of capital equipment used to fabricate semiconductor chips. Spending by semiconductor customers, which include companies that operate in the foundry, logic, memory, and other semiconductor chip markets, is driven by demand for products such as smartphones, mobile devices, personal computers, servers for artificial intelligence (AI) and data centers, automobiles, clean energy, storage, and other products, and the nature and timing of technological advances in fabrication processes. The growth of data and emerging end-market drivers such as AI, the internet of things, 5G networks, electric and autonomous vehicles and augmented and virtual reality are also creating

the next wave of growth for the industry. As a result, products within the Semiconductor Systems segment are subject to significant changes in customer requirements, including transitions to smaller dimensions, increasingly complex chip architectures, new materials and an increasing number of applications. Spending can also depend on customer facility readiness and timeline for installation of capital equipment at customer sites. Development efforts are focused on solving customersâ€™ key technical challenges in patterning, transistor, interconnect, process control, and packaging performance.The AGS segment provides services, spares and factory automation software to customer fabrication plants globally to help customers optimize performance of our large, global installed base of semiconductor, display and other equipment. The AGS segment also includes 200mm and other equipment, which is shipped to many customers globally that serve the non-leading-edge end markets. Demand for AGSâ€™ service and spares is driven by our large and growing installed base of manufacturing systems, and customersâ€™ needs to shorten ramp times, improve system performance, and optimize factory output and operating costs. Industry conditions that affect AGSâ€™ sales of spares and services are primarily characterized by changes in semiconductor manufacturersâ€™ wafer starts and utilization rates, growth of the installed base of equipment and growing service intensity of newer tools. Our strategy is to continue to shift the AGSâ€™ service and spares business to a subscription agreement model, improving customer factory performance and optimizing operating costs, and providing us a more predictable revenue stream.The Display segment encompasses products for manufacturing liquid crystal and OLED displays, and other display technologies for TVs, monitors, laptops, personal computers (PC), tablets, smart phones, other consumer-oriented devices, equipment upgrades and solar energy cells. The segment is focused on expanding its presence through technologically-differentiated equipment and products that provide customers with improved performance and yields. Display segment growth depends primarily on consumer demand for increasingly larger and more advanced TVs and high-resolution displays for mobile devices and information technology (IT) products, including laptops, monitors and tablets, as well as new form factors, including thin, light, curved and flexible displays, and new applications such as augmented and virtual reality. The timing of customer investment in manufacturing equipment is also affected by the timing of next-generation process development and of capacity expansion to meet end-market demand.The Corporate and Other category includes revenues and costs of product sold from other products, as well as certain operating expenses that are not allocated to our reportable segments and are managed separately at the corporate level. These operating expenses include costs for certain management, finance, legal, human resource, and RD&E functions performed at the corporate level; and unabsorbed information technology and occupancy. In addition, we do not allocate to our reportable segments severance, asset impairment and any associated charges related to restructuring actions, unless these actions pertain to a specific reportable segment. Effective in the first quarter of fiscal 2024, management began including share-based compensation expense in the evaluation of reportable segments' performance. Prior-year numbers have been recast to conform to the current-year presentation.The United States government has implemented export regulations for U.S. semiconductor technology sold or provided to customers in China, which have limited our ability to provide certain products and services to customers in China, over the past several years. The U.S. government continues to issue new export licensing requirements, and additional updates and other requirements that have had the effect of further limiting our ability to provide certain products and services to customers outside the U.S., including in China. For a description of these risks, see the risk factor entitled â€œBusiness and Industry Risks - Global trade issues and changes in and uncertainties with respect to trade policies and export regulations, including import and export license requirements, trade sanctions, tariffs and international trade disputes, have adversely impacted and could further adversely impact our business and operations, and reduce the competitiveness of our products and services relative to local and global competitorsâ€ in Part I, Item 1A, â€œRisk Factors.â€33Table of ContentsResults of Operations Our fiscal 2024 and 2023 each contained 52 weeks.The following table presents certain significant measurements for the periods indicated:Â Â Change202420232024 over 2023Â Â (In millions, except per share amounts and percentages)Net revenue$27,176Â $26,517Â $659Â Gross margin47.5Â %46.7Â %0.8 pointsOperating income$7,867Â $7,654Â $213Â Operating margin28.9Â %28.9Â %â€” pointsNet income$7,177Â $6,856Â $321Â Earnings per diluted share$8.61Â $8.11Â $0.50Â Net revenue by segment for the periods presented were as follows:Â ChangeÂ 202420232024 over 2023Â (In millions, except percentages)Semiconductor Systems$19,911Â 73%$19,698Â 74%1Â %Applied Global Services6,225Â 23%5,732Â 22%9Â %Display885Â 3%868Â 3%2Â %Corporate and Other155Â 1%219Â 1%(29)%Total$27,176Â 100%$26,517Â 100%2Â %Net revenue for Semiconductor Systems by market for the periods presented were as follows:Â 20242023Foundry, logic and other68Â %77Â %Dynamic random-access memory (DRAM)28Â %17Â %Flash memory4Â %6Â %100Â %100Â %Net revenue in fiscal 2024 increased as compared to the prior year. Gross margin increased primarily driven by lower material, freight, logistics, and manufacturing costs, favorable changes in customer and product mix and lower depreciation expense as a result of changes in certain assetsâ€™ useful lives effective as of the beginning of fiscal 2024, partially offset by an increase in labor costs.Semiconductor Systems net revenue increased in fiscal 2024 as compared to the prior year as customers continued to make strategic investments in new capacity and new technology transitions. Foundry and logic customersâ€™ spending decreased driven primarily by lower customer investments in leading-edge manufacturing technologies, partially offset by increased customer investments in non-leading edge manufacturing technologies. Memory customersâ€™ spending in fiscal 2024 was higher due to increased investments in DRAM technology transitions. Investments by semiconductor equipment customers are expected to remain strong with growth in the adoption of high-bandwidth memory and other forms of advanced packaging, continued demand for AI and data center computing, and for non-leading edge nodes. The Semiconductor Systems segment continued to represent the largest contributor of net revenue.Our AGS net revenue in fiscal 2024 increased primarily due to an increase in net revenue associated with long-term service agreements and customer spending on spares, partially offset by lower customer spending on 200mm equipment. Demand for services is expected to grow as our installed base of systems and chambers increases and customers renew long-term service agreements.34Table of ContentsOur Display net revenue increased in fiscal 2024 compared to the prior year primarily due to higher customer investments in display fabrication equipment for IT products including laptops, monitors and tablets, partially offset by lower customer investments in display fabrication equipment for TVs.Over the longer term, we believe secular drivers such as AI, data center computing, the internet of things, 5G networks, electric and autonomous vehicles and augmented and virtual reality will create the next wave of growth for semiconductors and expand our served market opportunities.Net revenue by geographic region, determined by the location of customersâ€™ facilities to which products were shipped and services were performed, was as follows:ChangeÂ 202420232024 over 2023Â (In millions, except percentages)China$10,117Â 37%$7,247Â 27%40Â %Korea4,493Â 17%4,609Â 18%(3)%Taiwan4,010Â 15%5,670Â 21%(29)%Japan2,154Â 8%2,075Â 8%4Â %Southeast Asia1,141Â 4%758Â 3%51Â %Asia Pacific21,915Â 81%20,359Â 77%8Â %United States3,818Â 14%4,006Â 15%(5)%Europe1,443Â 5%2,152Â 8%(33)%Total$27,176Â 100%$26,517Â 100%2Â %Net revenue increased from customers in China in fiscal 2024 primarily due to investments in semiconductor equipment and spending on spares and services, partially offset by a decrease in investments in 200mm equipment. Net revenue decreased from customers in Europe primarily due to lower investments in semiconductor equipment. Net revenue from customers in Taiwan decreased primarily due to lower investments in semiconductor equipment and spares, offset by higher spending on services. The changes in net revenue from customers in all other regions for fiscal 2024 primarily reflected changes in investment and spending on semiconductor equipment and services.Operating ExpensesOperating expenses for the periods presented were as follows:Â Â ChangeÂ 202420232024 over 2023Â (In millions)Research, development and engineering (RD&E)$3,233Â $3,102Â $131Â Marketing and selling$836Â $776Â $60Â General and administrative$961Â $852Â $109Â The year-over-year change in RD&E expenses was primarily due to additional headcount to support our ongoing investments in product development initiatives, consistent with our growth strategy, offset by lower depreciation expense as a result of changes in certain assetsâ€™ useful lives effective as of the beginning of fiscal 2024. We continued to prioritize existing RD&E investments in technical capabilities and critical RD&E programs in current and new markets, with a focus on the development of new unit process systems and integrated materials solutions. Areas of investment in Semiconductor Systems include etch, deposition, metrology and inspection, patterning, packaging and other technologies to improve chip performance, power, area, cost and time-to-market. In Display, RD&E investments were focused on expanding our market opportunity with new display technologies.Marketing and selling expenses for fiscal 2024 increased primarily due to additional headcount.General and administrative expenses in fiscal 2024 increased primarily due to the increases in share-based compensation expense and professional fees.35Table of ContentsInterest Expense and Interest and Other Income (expense), netInterest expense and interest and other income (expense), net for the periods presented were as follows:Â ChangeÂ 202420232024 over 2023Â (In millions)Interest expense$247Â $238Â $9Â Interest and other income (expense), net$532Â $300Â $232Â Interest expense incurred was primarily associated with issued senior unsecured notes. Interest expense in fiscal 2024 increased slightly as a result of the issuance of senior unsecured notes in June 2024.Interest and other income (expense), net in fiscal 2024 increased primarily driven by higher interest income due to higher cash balances and lower impairment on equity investment, partially offset by higher net loss on equity investment.Income TaxesProvision for income taxes and effective tax rates for the periods indicated were as follows:Â ChangeÂ 202420232024 over 2023Â (InÂ millions,Â exceptÂ percentages)Provision for income taxes$975Â $860Â $115Â Effective income tax rate12.0Â %11.1Â %0.9 pointsOur provision for income taxes and effective tax rate are affected by the geographical composition of pre-tax income which includes jurisdictions with differing tax rates, conditional reduced tax rates and other income tax incentives. It is also affected by events that vary from period to period, such as changes in income tax laws and the resolution of prior yearsâ€™ income tax filings.Our effective tax rate for fiscal 2024 was higher than the prior fiscal year primarily due to lower tax credits in fiscal 2024, partially offset by higher proportion of pre-tax income in lower tax jurisdictions in fiscal 2024.36Table of ContentsSegment Operating IncomeOperating income by segment for the periods presented were as follows:Â ChangeÂ 202420232024 over 2023Â (In millions, except percentages and ratios)Operating income (loss)Semiconductor Systems$6,981Â $6,879Â $102Â 1Â %Applied Global Services1,812Â 1,529Â 283Â 19Â %Display51Â 114Â (63)(55)%Corporate and Other(977)(868)(109)13Â %Total$7,867Â $7,654Â $213Â 3Â %Operating marginSemiconductor Systems35.1Â %34.9Â %0.2 pointsApplied Global Services29.1Â %26.7Â %2.4 pointsDisplay5.8Â %13.1Â %(7.3) pointsÂ Semiconductor Systemsâ€™ operating margin for fiscal 2024 increased primarily driven by lower material, freight, logistics and manufacturing costs, favorable changes in customer and product mix and lower depreciation expense as a result of changes in certain assetsâ€™ useful lives effective as of the beginning of fiscal 2024, partially offset by increased RD&E expenses.AGSâ€™ operating margin for fiscal 2024 increased primarily due to the increase in net revenue and a favorable change in product mix.Displayâ€™s operating margin for fiscal 2024 decreased primarily due to unfavorable changes in product mix.37Table of ContentsRecent Accounting PronouncementsAccounting Standards Not Yet AdoptedDisaggregation of Income Statements Expenses. In November 2024, the Financial Accounting Standards Board (FASB) issued an accounting standard update to improve income statement expenses disclosures (Subtopic 220-40). The standard requires more detailed information related to the types of expenses, including (among other items) the amounts of purchases of inventory, employee compensation, depreciation and intangible asset amortization included within each interim and annual income statementâ€™s expense caption, as applicable. This authoritative guidance can be applied prospectively or retrospectively and will be effective for us in fiscal 2028 for annual periods and in the first quarter of fiscal 2029 for interim periods, with early adoption permitted. We are evaluating the effect of this guidance on our consolidated financial statements and related disclosures.Improvements to Income Tax Disclosures. In December 2023, the FASB issued an accounting standard update to improve income tax disclosures (Topic 740). The standard prescribes specific categories for the components of the effective tax rate reconciliation, requires disclosure of income taxes paid by jurisdiction, and modifies other income tax-related disclosures. This authoritative guidance will be effective for us beginning with our annual reporting for fiscal year 2026, with early adoption permitted. We are evaluating the effect of this guidance on our consolidated financial statements and related disclosures.Improvements to Reportable Segment Disclosures. In November 2023, the FASB issued an accounting standard update to improve reportable segment disclosure requirements, primarily through enhanced disclosures about significant segment expenses (Topic 280). The standard requires interim and annual disclosure of significant segment expenses that are regularly provided to the chief operating decision-maker (CODM) and included within the reported measure of a segmentâ€™s profit or loss, requires interim disclosures about a reportable segmentâ€™s profit or loss and assets that are currently required annually, requires disclosure of the position and title of the CODM, clarifies circumstances in which an entity can disclose multiple segment measures of profit or loss and contains other disclosure requirements. This authoritative guidance will be effective for us in fiscal 2025 for annual periods and in the first quarter of fiscal 2026 for interim periods, with early adoption permitted. We are evaluating the effect of this guidance on our consolidated financial statements and related disclosures.Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions. In June 2022, the FASB issued an accounting standard update which clarifies how the fair value of equity securities subject to contractual sale restrictions is determined (Topic 820). The amendment clarifies that a contractual sale restriction should not be considered in measuring fair value. It also requires certain qualitative and quantitative disclosures related to equity securities subject to contractual sale restrictions. We will adopt this guidance in the first quarter of fiscal 2025. The adoption of this guidance is not expected to have a significant impact on our consolidated financial statements.Accounting Standards AdoptedFor a description of recently adopted accounting standards, including the date of adoption and the effect, if any, on our consolidated financial statements, see Note 1, â€œSummary of Significant Accounting Policies,â€ of the Notes to Consolidated Financial Statements.38Table of ContentsFinancial Condition, Liquidity and Capital ResourcesOur cash, cash equivalents and investments consist of the following:Â October 27,2024October 29,2023Â (In millions)Cash and cash equivalents$8,022Â $6,132Â Short-term investments1,449Â 737Â Long-term investments2,787Â 2,281Â Total cash, cash-equivalents and investments$12,258Â $9,150Â Sources and Uses of CashA summary of cash provided by (used in) operating, investing, and financing activities is as follows:Â 20242023Â (In millions)Cash provided by operating activities$8,677Â $8,700Â Cash used in investing activities$(2,327)$(1,535)Cash used in financing activities$(4,470)$(3,032)Operating ActivitiesCash from operating activities for fiscal 2024 was $8.7 billion, which reflects net income adjusted for the effect of non-cash charges and changes in working capital components. Significant non-cash charges included depreciation, amortization, share-based compensation and deferred income taxes. Cash provided by operating activities in fiscal 2024 remained relatively flat primarily due to lower collections of customer receivable balances, partially offset by lower payments to vendors and higher net income.We have agreements with various financial institutions to sell accounts receivable and discount promissory notes from selected customers. We sell our accounts receivable generally without recourse. From time to time, we also discount letters of credit issued by customers through various financial institutions. The discounting of letters of credit depends on many factors, including the willingness of financial institutions to discount the letters of credit and the cost of such arrangements. We sold $0.4 billion and $0.7 billion of accounts receivable during fiscal 2024 and 2023, respectively. We did not discount letters of credit issued by customers in fiscal 2024 and 2023. There was no discounting of promissory notes in each of fiscal 2024 and 2023.Our working capital was $12.8 billion at OctoberÂ 27, 2024 and $11.8 billion at OctoberÂ 29, 2023. Days sales outstanding of our accounts receivable at the end of fiscal 2024 and 2023 was 68 days and 70 days, respectively. Days sales outstanding varies due to the timing of shipments and payment terms. The decrease in days sales outstanding was primarily due to favorable revenue linearity.Investing ActivitiesWe used $2.3 billion and $1.5 billion of cash in investing activities in fiscal 2024 and 2023, respectively. Capital expenditures in fiscal 2024 and 2023 were $1.2 billion and $1.1 billion, respectively. Capital expenditures were primarily for investments in real property acquisitions and improvements, demonstration and testing equipment, manufacturing and network equipment. Purchases of investments, net of proceeds from sales and maturities of investments, for 2024 and 2023 was $1.1 billion and $404 million, respectively. Net cash paid for acquisitions in fiscal 2023 was $25 million. Investing activities also included investments in technology to allow us to access new market opportunities or emerging technologies.Our investment portfolio consists principally of investment grade money market mutual funds, U.S.Â Treasury and agency securities, municipal bonds, corporate bonds and mortgage-backed and asset-backed securities, as well as equity securities. We regularly monitor the credit risk in our investment portfolio and take appropriate measures, which may include the sale of certain securities, to manage such risks prudently in accordance with our investment policies.39Table of ContentsFinancing ActivitiesWe used $4.5 billion of cash in financing activities in fiscal 2024, consisting primarily of repurchases of common stock of $3.8 billion, cash dividends to stockholders of $1.2 billion, tax withholding payments for vested equity awards of $291 million, and net payments of principal on financing leases of $102 million, partially offset by net proceeds received from the issuance of senior unsecured notes of

$694 million and proceeds received from common stock issuances of $243 million.We used $3.0 billion of cash in financing activities in fiscal 2023, consisting primarily of repurchases of common stock of $2.2 billion, cash dividends to stockholders of $975 million and tax withholding payments for vested equity awards of $179 million, offset by proceeds received from common stock issuances of $227 million and net proceeds from issuances of commercial paper of $91 million.In March 2023, our Board of Directors approved a common stock repurchase program authorizing $10.0Â billion in repurchases, which supplemented the previously existing $6.0 billion authorization approved in March 2022. At OctoberÂ 27, 2024, approximately $8.9 billion remained available for future stock repurchases under the repurchase program.During each of fiscal 2024 and 2023 we paid four quarterly cash dividends, totaling $1.2 billion and $975 million, respectively. We currently anticipate that cash dividends will continue to be paid on a quarterly basis, although the declaration of any future cash dividend is at the discretion of the Board of Directors and will depend on our financial condition, results of operations, capital requirements, business conditions and other factors, as well as a determination by the Board of Directors that cash dividends are in the best interests of our stockholders.We have credit facilities for unsecured borrowings in various currencies of up to $1.6 billion, of which $1.5 billion is comprised of a committed revolving credit agreement (Revolving Credit Agreement) with a group of banks. The Revolving Credit Agreement is scheduled to expire in February 2026, unless extended as permitted under the Revolving Credit Agreement. The Revolving Credit Agreement includes financial and other covenants with which we were in compliance as of OctoberÂ 27, 2024. No amounts were outstanding under the Revolving Credit Agreement as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023. See Note 9, Borrowing Facilities and Debt, of the Notes to the Consolidated Financial Statements for further discussion related to our Revolving Credit Agreement and other credit facilities.We have a short-term commercial paper program under which we may from time to time issue unsecured commercial paper notes of up to a total amount of $1.5Â billion. The proceeds from the issuances of commercial paper are used for general corporate purposes. At OctoberÂ 27, 2024, we had $100 million of commercial paper notes outstanding. The commercial paper program is backstopped by the Revolving Credit Agreement and borrowings under the Revolving Credit Agreement reduce the amount of commercial paper notes we can issue.In June 2024, we issued $700Â million aggregate principal amount of 4.800% senior unsecured notes due 2029 in a registered public offering. The proceeds from the issuance of the senior unsecured notes are intended for general corporate purposes.We had senior unsecured notes in the aggregate principal amount of $6.2 billion outstanding as of OctoberÂ 27, 2024. See Note 9 of the Notes to the Consolidated Financial Statements for additional discussion of existing debt. We may seek to refinance our existing debt and may incur additional indebtedness depending on our capital requirements and the availability of financing.OthersOn December 22, 2017, the U.S. government enacted the Tax Cuts and Jobs Act (Tax Act). The Tax Act requires a one-time transition tax on certain unrepatriated earnings of foreign subsidiaries. The transition tax expense is payable in installments over eight years, with eight percent due in each of the first five years starting with fiscal 2018. As of OctoberÂ 27, 2024, we had $459 million of total payments remaining, payable in installments in the next two years.On August 9, 2022, the U.S. government enacted the U.S. CHIPS and Science Act (â€œCHIPS Actâ€). The CHIPS Act creates a 25% investment tax credit for certain investments in domestic semiconductor manufacturing. The credit is provided for qualifying property, which is placed in service after December 31, 2022, for which construction begins before January 1, 2027, and is treated as a government grant. We recognize this investment tax credit when there is reasonable assurance that we will qualify for the credit and the benefit will be received. Investments related to the 25% investment tax credit reduced our income taxes payable by $170 million as of OctoberÂ 27, 2024.On August 16, 2022, the U.S. government enacted the Inflation Reduction Act. The Inflation Reduction Act introduced a new 15% corporate minimum tax, based on adjusted financial statement income of certain large corporations. Applicable corporations are allowed to claim a credit for the minimum tax paid against regular tax in future years. We are subject to the minimum tax in fiscal 2024 and expect to claim a credit for the minimum tax in future years.40Table of ContentsSeveral countries where we do business have enacted global minimum tax regimes based on the Organization for Economic Cooperation and Development (â€œOECDâ€) Base Erosion and Profit Shifting Project. This will change various aspects of the existing framework under which our global tax obligations are determined and is expected to increase our tax liabilities beginning in fiscal 2025. The OECD continues to release additional guidance on this new global minimum tax framework. We will continue to monitor these developments, as each jurisdiction incorporates changes into its tax laws.Our conditional reduced tax rates in Singapore will expire in fiscal 2025, excluding potential renewal and subject to certain conditions with which we expect to comply. Although cash requirements will fluctuate based on the timing and extent of factors such as those discussed above, our management believes that cash generated from operations, together with the liquidity provided by existing cash balances and borrowing capability, will be sufficient to satisfy our liquidity requirements for the next 12Â months. For further details regarding our operating, investing and financing activities, see the Consolidated Statements of Cash Flows in this report.For details on standby letters of credit, guarantee instruments and other agreements with banks, see Off-Balance Sheet Arrangements below.41Table of ContentsContractual Obligations and Off-Balance Sheet ArrangementsWe have certain on-balance sheet and off-balance sheet obligation arrangements to make future payments under various contracts. Certain contractual arrangements which are recorded on our balance sheet include borrowing facilities and debts and lease obligations.Borrowing Facilities and Debt ObligationsAs of OctoberÂ 27, 2024, we had $6.2 billion in aggregate principal amount of senior unsecured notes with varying maturities, of which $700 million is due within 12 months and the remaining notes are due beyond 12 months. Future interest payments associated with these unsecured notes were $2.8 billion, of which $239 million is due within 12 months and the remaining interest payments are due beyond 12 months. See Note 9, Borrowing Facilities and Debt, of the Notes to the Consolidated Financial Statements for further discussion related to our borrowing facilities and debt obligations.Lease ObligationsAs of OctoberÂ 27, 2024, our operating lease obligation was $384 million related to various operating lease arrangements for certain facilities, of which $96 million is payable within 12 months and the remaining amount is payable beyond 12 months.Purchase ObligationsAs of OctoberÂ 27, 2024, we had $8.1 billion of purchase obligations for goods and services, of which $4.2 billion is payable within 12 months and the remaining amount is payable beyond 12 months.Deemed Repatriation Tax PayableAs of OctoberÂ 27, 2024, we had $459 million of transition tax liability, of which $204 million is payable within 12 months and the remaining amount is payable beyond 12 months. This transition tax liability is associated with the deemed repatriation of accumulated foreign earnings as a result of the enactment of the Tax Act.Other Long-term LiabilitiesWe also have the obligation to fund our pension, postretirement and deferred compensation plans. We evaluate the need to make contributions to our pension and postretirement benefit plans after considering the funded status of the plans, movements in the discount rate, performance of the plan assets and related tax consequences. Payments to the plans would be dependent on these factors and could vary across a wide range of amounts and time periods. Payments for deferred compensation plans are dependent on activity by participants, making the timing of payments uncertain. As of OctoberÂ 27, 2024, the total of our future expected benefit payments for the pension plans and the postretirement plan over the next ten fiscal years were $214 million, of which $14 million is payable within 12 months and the remaining amount is payable beyond 12 months.As of OctoberÂ 27, 2024, the gross liability for unrecognized tax benefits that was not expected to result in payment of cash within one year was $521 million. Interest and penalties related to uncertain tax positions that were not expected to result in payment of cash within one year of OctoberÂ 27, 2024 was $181 million. At this time, we are unable to reliably estimate the timing of payments due to uncertainties in the timing of tax audit outcomes.Â Â Â Â Off-Balance Sheet ArrangementsIn the ordinary course of business, we provide standby letters of credit or other guarantee instruments to third parties as required for certain transactions initiated by either us or our subsidiaries. These include agreements with various banks to facilitate subsidiary banking operations worldwide, including overdraft arrangements. We also have agreements with various banks to facilitate subsidiary banking operations worldwide, including overdraft arrangements, issuance of bank guarantees, and letters of credit. See Note 13, Guarantees, Commitments and Contingencies, of the Notes to the Consolidated Financial Statements for further discussion relating to these arrangements.42Table of ContentsCritical Accounting EstimatesThe preparation of consolidated financial statements and related disclosures in conformity with accounting principles generally accepted in the United States of America requires management to make judgments, assumptions and estimates that affect the amounts reported.Estimates and assumptions about future events and their effects cannot be determined with certainty. We base our estimates on historical experience and on various other assumptions believed to be applicable and reasonable under the circumstances. These estimates may change as new events occur, as additional information is obtained and as our operating environment changes. These changes have historically been minor and have been included in the consolidated financial statements as soon as they became known. In addition, management is periodically faced with uncertainties, the outcomes of which are not within our control and will not be known for prolonged periods of time. These uncertainties include those discussed in PartÂ I, ItemÂ 1A, â€œRisk Factors.â€Management believes that the following is a critical accounting estimate:Income Taxes We are subject to income taxes in the U.S. and numerous foreign jurisdictions. The calculation of our provision for income taxes and effective tax rate involves significant judgment in estimating the impact of uncertainties in the application of complex and evolving tax laws. Resolution of these uncertainties in a manner inconsistent with our expectations could have a material impact on our results of operations and financial condition. We recognize a current tax liability for the estimated amount of income taxes payable on tax returns for the current fiscal year. Deferred tax assets and liabilities are recognized for the estimated future tax effects of events that have been recognized in our financial statements or tax returns. These estimates consider future operational results including realizability of our deferred tax assets. Deferred tax assets and liabilities are adjusted to reflect the effects of enacted changes in tax rates, laws and status, including changes in tax incentives.43Table of ContentsItem 7A:Â Â Â Â Â Â Â Quantitative and Qualitative Disclosures About Market RiskWe are exposed to financial market risks, including fluctuations in interest rate and foreign currency exchange rates.Interest Rate RiskAvailable-for-sale Debt Securities - The market value of our investments in available-for-sale securities was approximately $3.2 billion at OctoberÂ 27, 2024. An immediate hypothetical 100Â basis point increase in interest rates would result in a decrease in the fair value of investments as of OctoberÂ 27, 2024 of approximately $36Â million. Debt - At OctoberÂ 27, 2024, the aggregate principal of long-term senior unsecured notes issued by us was $5.5 billion with an estimated fair value of $5.1 billion. A hypothetical decrease in interest rates of 100 basis points would result in an increase in the fair value of our long-term senior notes issuances of approximately $428 million at OctoberÂ 27, 2024. From time to time, we use interest rate swaps or rate lock agreements to mitigate the potential impact of changes in benchmark interest rates on interest expense and cash flows. Foreign Currency RiskCertain of our operations are conducted in foreign currencies, such as Japanese yen, Israeli shekel, euro and Taiwanese dollar. Hedges are used to reduce, but not eliminate, the impact of foreign currency exchange rate movements on the consolidated balance sheet, statement of operations, and statement of cash flows. We use primarily foreign currency forward contracts to offset the impact of foreign exchange movements on non-U.S. dollar denominated monetary assets and liabilities. The foreign exchange gains and losses on the assets and liabilities are recorded in interest and other income (expense), net and are offset by the gains and losses on the hedges. We use foreign currency forward and option contracts to hedge a portion of anticipated non-U.S. dollar denominated revenues and expenses expected to occur within the next 24 months. Gains and losses on these hedging contracts generally mitigate the effect of currency movements on our net revenue, cost of products sold, and operating expenses. A hypothetical 10% adverse change in foreign currency exchange rates relative to the U.S. Dollar would result in a decrease in the fair value of these hedging contracts of $141 million at OctoberÂ 27, 2024.We do not use foreign currency forward or option contracts for trading or speculative purposes.Item 8:Â Â Â Â Â Â Financial Statements and Supplementary DataThe consolidated financial statements required by this Item are set forth on the pages indicated at ItemÂ 15(a).Item 9:Â Â Â Â Â Â Changes in and Disagreements with Accountants on Accounting and Financial DisclosureNone.44Table of ContentsItem 9A:Â Â Â Â Â Â Controls and ProceduresDisclosure Controls and ProceduresAs of the end of the period covered by this report, our management conducted an evaluation, under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures, as such term is defined in RuleÂ 13a-15(e) of the Securities Exchange Act of 1934 (the Exchange Act). Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report in ensuring that information required to be disclosed was recorded, processed, summarized and reported within the time periods specified in the SECâ€™s rules and forms, and to provide reasonable assurance that information required to be disclosed by us in such reports is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.Managementâ€™s Report on Internal Control over Financial ReportingOur management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in RuleÂ 13a-15(f) of the Exchange Act. Under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, our management conducted an evaluation of the effectiveness of our internal control over financial reporting based upon the framework in â€œInternal Control â€“ Integrated Framework (2013)â€ issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, our management concluded that our internal control over financial reporting was effective as of OctoberÂ 27, 2024.KPMG LLP, an independent registered public accounting firm, has audited the consolidated financial statements included in this FormÂ 10-K and, as part of the audit, has issued a report, included herein, on the effectiveness of our internal control over financial reporting as of OctoberÂ 27, 2024.Changes in Internal Control over Financial ReportingDuring the fourth quarter of fiscal 2024, there were no changes in the internal control over financial reporting that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.Inherent Limitations of Disclosure Controls and Procedures and Internal Control over Financial ReportingIt should be noted that any system of controls, however well designed and operated, can provide only reasonable, and not absolute, assurance that the objectives of the system will be met. In addition, the design of any control system is based in part upon certain assumptions about the likelihood of future events.Â Item 9B:Â Â Â Â Â Â Other InformationDuring the three months ended OctoberÂ 27, 2024, no director or officer, as defined in Rule 16a-1(f), adopted or terminated a â€œRule 10b5-1 trading arrangementâ€ or a â€œnon-Rule 10b5-1 trading arrangement,â€ each as defined in Regulation S-K Item 408.Item 9C:Â Â Â Â Â Disclosure Regarding Foreign Jurisdictions that Prevent InspectionsNot applicable.45Table of ContentsPARTÂ IIIItem 10:Â Â Â Â Â Â Directors, Executive Officers and Corporate GovernanceExcept for the information regarding executive officers required by Item 401 of Regulation S-K (which is included in PartÂ I, ItemÂ 1 of this Annual Report on FormÂ 10-K, under â€œInformation about our Executive Officersâ€), and code of ethics and insider trading policy (which are set forth below), the information required by this item will be provided in accordance with Instruction G(3) to Form 10-K no later than February 24, 2025.We have implemented the Standards of Business Conduct, a code of ethics with which every person who works for us and every member of the Board of Directors is expected to comply. If any substantive amendments are made to the Standards of Business Conduct or any waiver is granted, including any implicit waiver, from a provision of the code to our Chief Executive Officer, Chief Financial Officer or Chief Accounting Officer, we will disclose the nature of such amendment or waiver on our website or in a report on FormÂ 8-K. The above information, including the Standards of Business Conduct, is available on our website under the Governance Documents section at https://www.appliedmaterials.com/us/en/about/corporate-governance.html. This website address is intended to be an inactive, textual reference only. None of the materials on, or accessible through, this website is part of this report or is incorporated by reference herein.We have adopted an Insider Trading Policy governing the purchase, sale, and other dispositions of our securities by our directors, officers, employees and other individuals associated with us that we believe is reasonably designed to promote compliance with insider trading laws, rules and regulations, and listing standards applicable to us. A copy of our Insider Trading Policy is filed as Exhibit 19.1 to this Annual Report on Form 10-K. Â Item 11:Â Â Â Â Â Â Executive CompensationThe information required by this Item will be provided in accordance with Instruction G(3) to FormÂ 10-K no later than February 24, 2025. 46Table of ContentsItem 12:Â Â Â Â Â Â Security Ownership of Certain Beneficial Owners and Management and Related Stockholder MattersExcept for the information regarding securities authorized for issuance under equity compensation plans (which is set forth below), the information required by this Item will be provided in accordance with Instruction G(3) to Form 10-K no later than February 24, 2025.The following table summarizes information with respect to equity awards under our equity compensation plans as of OctoberÂ 27, 2024:Equity Compensation Plan InformationÂ Plan Category(a)Number ofSecuritiesÂ toÂ beIssuedÂ UponÂ ExerciseofÂ OutstandingÂ Options,Warrants andRights(1)Â (b)WeightedÂ AverageExercise Price ofOutstandingÂ Options,Warrants andRights(2)Â (c)NumberÂ ofÂ SecuritiesAvailable for FutureIssuanceÂ UnderÂ EquityCompensation Plans(Excluding SecuritiesReflected inColumn(a))Â Â (In millions, except prices)Â Equity

compensation plans approved by security holders10Â Â Â $â€”Â 31Â (3)Total10Â Â Â $â€”Â 31Â Â Â Â (1)Includes only restricted stock units and performance share units outstanding under our equity compensation plans, as no options, stock warrants or other rights were outstanding as of OctoberÂ 27, 2024.(2)The weighted average exercise price calculation does not take into account any restricted stock units or performance shares.(3)Includes 10 million shares of our common stock available for future issuance under the Applied Materials, Inc. Omnibus Employeesâ€™ Stock Purchase Plan. Of these 10 million shares, 1 million are subject to purchase during the purchase period in effect as of OctoberÂ 27, 2024.We have the following equity compensation plan that has not been approved by stockholders:Applied Materials Profit Sharing Scheme. The Applied Materials Profit Sharing Scheme was adopted effective JulyÂ 3, 1996 and amended from time to time to enable employees of Applied Materials Ireland Limited and its participating subsidiaries to purchase our common stock at 100% of fair market value on the purchase date. Under this plan, eligible employees may elect to forego a certain portion of their base salary and certain bonuses they have earned and that otherwise would be payable in cash to purchase shares of our common stock at full fair market value. Since the eligible employees pay full fair market value for the shares, there is no reserved amount of shares under this plan and, accordingly, the table above does not include any set number of shares available for future issuance under the plan.Â 47Table of ContentsItem 13:Â Â Â Â Â Â Certain Relationships and Related Transactions, and Director IndependenceThe information required by this Item will be provided in accordance with Instruction G(3) to FormÂ 10-K no later than February 24, 2025. Â Item 14:Â Â Â Â Â Â Principal Accounting Fees and ServicesOur independent registered public accounting firm is KPMG LLP, Santa Clara, California, Auditor Firm ID: 185.The information required by this Item will be provided in accordance with Instruction G(3) to FormÂ 10-K no later than February 24, 2025. 48Table of Contents PARTÂ IVItem 15:Â Â Â Â Â Â Exhibits, Financial Statement Schedules(a)Â The following documents are filed as part of this Annual Report on FormÂ 10-K:Â Â Â PageNumber(1)Financial Statements:Report of Independent Registered Public Accounting Firm50Consolidated Statements of Operations52Consolidated Statements of Comprehensive Income53Consolidated Balance Sheets54Consolidated Statements of Stockholdersâ€™ Equity55Consolidated Statements of Cash Flows56Notes to Consolidated Financial Statements57(2)Exhibits:The exhibits listed in the accompanying Index to Exhibits are filed or incorporated by reference as part of this Annual Report on FormÂ 10-K85All other schedules are omitted because they are not applicable or the required information is shown in the Consolidated Financial Statements or Notes thereto.Item 16:Â Â Â Â Â Â Form 10-K SummaryNone.49Table of ContentsREPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRMTo the Stockholders and Board of DirectorsApplied Materials, Inc.:Opinions on the Consolidated Financial Statements and Internal Control Over Financial ReportingWe have audited the accompanying consolidated balance sheets of Applied Materials, Inc. and subsidiaries (the Company) as of October 27, 2024 and October 29, 2023, the related consolidated statements of operations, comprehensive income, stockholdersâ€™ equity, and cash flows for each of the years in the three-year period ended October 27, 2024, and the related notes (collectively, the consolidated financial statements). We also have audited the Companyâ€™s internal control over financial reporting as of October 27, 2024, based on criteria established in Internal Control â€“ Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of October 27, 2024 and October 29, 2023, and the results of its operations and its cash flows for each of the years in the three-year period ended October 27, 2024, in conformity with U.S. generally accepted accounting principles. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of October 27, 2024 based on criteria established in Internal Control â€“ Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.Basis for OpinionsThe Companyâ€™s management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Managementâ€™s Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Companyâ€™s consolidated financial statements and an opinion on the Companyâ€™s internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.Definition and Limitations of Internal Control Over Financial ReportingA companyâ€™s internal control over financial reporting is a process designed 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. A companyâ€™s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the companyâ€™s assets that could have a material effect on the financial statements.Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.50Table of ContentsCritical Audit MatterThe critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the consolidated financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of a critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.Evaluation of sufficiency of audit evidence over revenueAs discussed in Notes 1 and 14 to the consolidated financial statements, the Company recorded $27,176 million in net revenue, for the year ended October 27, 2024. The Company generates revenue by providing manufacturing equipment, services and software to customers in the semiconductor, display and related industries. The Companyâ€™s process to account for and recognize revenue differs across revenue streams.We identified the evaluation of the sufficiency of audit evidence obtained over net revenue as a critical audit matter. Evaluating the sufficiency of audit evidence required subjective auditor judgment due to the number of revenue streams and separate processes to account for and recognize revenue. This included determining the nature and extent of audit evidence obtained over each revenue stream.The following are the primary procedures we performed to address this critical audit matter. We applied auditor judgment to determine the revenue streams over which procedures were performed as well as the nature and extent of such procedures. For revenue streams where procedures were performed, we:â€¢evaluated the design and tested the operating effectiveness of certain internal controls over the Companyâ€™s revenue recognition processes, including the Companyâ€™s controls over the accurate recording of revenue.â€¢evaluated the Companyâ€™s revenue recognition accounting policies.â€¢evaluated, for a sample of revenue transactions, (1) the accounting for consistency with the Companyâ€™s accounting policies, as applicable, including timing of revenue recognition, and (2) the recorded amounts by comparing them for consistency to underlying documentation, including the customer contracts.In addition, we evaluated the sufficiency of audit evidence obtained by assessing the results of the procedures performed, including the appropriateness of the nature and extent of audit effort over revenue/S/Â Â Â Â KPMG LLPKPMG LLPWe have served as the Companyâ€™s auditor since 2004.Santa Clara, CaliforniaDecemberÂ 13, 2024 51Table of ContentsAPPLIED MATERIALS, INC.CONSOLIDATED STATEMENTS OF OPERATIONS(InÂ millions,Â exceptÂ perÂ shareÂ amounts)Â Fiscal Year202420232022Â Net revenue$27,176Â $26,517Â $25,785Â Cost of products sold14,279Â 14,133Â 13,792Â Gross profit12,897Â 12,384Â 11,993Â Operating expenses:Research, development and engineering3,233Â 3,102Â 2,771Â Marketing and selling836Â 776Â 703Â General and administrative961Â 852Â 735Â Severance and related chargesâ€”Â â€”Â (4)Total operating expenses5,030Â 4,730Â 4,205Â Income from operations7,867Â 7,654Â 7,788Â Interest expense247Â 238Â 228Â Interest and other income (expense), net532Â 300Â 39Â Income before income taxes8,152Â 7,716Â 7,599Â Provision for income taxes975Â 860Â 1,074Â Net income$7,177Â $6,856Â $6,525Â Earnings per share:Basic$8.68Â $8.16Â $7.49Â Diluted$8.61Â $8.11Â $7.44Â Weighted average number of shares:Basic827Â 840Â 871Â Diluted834Â 845Â 877Â See accompanying Notes to Consolidated Financial Statements.52Table of ContentsAPPLIED MATERIALS, INC.CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME(InÂ millions)Fiscal Year202420232022Net incomeâ€™$7,177Â $6,856Â $6,525Â Other comprehensive income (loss), net of tax:Change in unrealized gain (loss) on available-for-sale investments43Â 25Â (74)Change in unrealized net loss on derivative instruments31Â (66)51Â Change in defined and postretirement benefit plans(25)26Â 81Â Other comprehensive income (loss), net of tax49Â (15)58Â Comprehensive income$7,226Â $6,841Â $6,583Â See accompanying Notes to Consolidated Financial Statements.53Table of ContentsAPPLIED MATERIALS, INC.CONSOLIDATED BALANCE SHEETS(InÂ millions,Â exceptÂ perÂ share amounts)Â October 27,2024October 29,2023ASSETSCurrent assets:Cash and cash equivalents$8,022Â $6,132Â Short-term investments1,449Â 737Â Accounts receivable, net5,234Â 5,165Â Inventories5,421Â 5,725Â Other current assets1,094Â 1,388Â Total current assets21,220Â 19,147Â Long-term investments2,787Â 2,281Â Property, plant and equipment, net3,339Â 2,723Â Goodwill3,732Â 3,732Â Purchased technology and other intangible assets, net249Â 294Â Deferred income taxes and other assets3,082Â 2,552Â Total assets$34,409Â $30,729Â LIABILITIES AND STOCKHOLDERSâ€™ EQUITYCurrent liabilities:Short-term debt$799Â $100Â Accounts payable and accrued expenses4,820Â 4,297Â Contract liabilities2,849Â 2,975Â Total current liabilities8,468Â 7,372Â Long-term debt5,460Â 5,461Â Income taxes payable670Â 833Â Other liabilities810Â 714Â Total liabilities15,408Â 14,380Â Commitments and contingencies (Note 13)Stockholdersâ€™ equity:Preferred stock: $0.01 par value per share; 1Â shares authorized; no shares issuedâ€”Â â€”Â Common stock: $0.01Â par value per share; 2,500 shares authorized; 818 and 833 shares outstanding at 2024 and 2023, respectively8Â 8Â Additional paid-in capital9,660Â 9,131Â Retained earnings49,651Â 43,726Â Treasury stock: 1,211 and 1,191 shares at 2024 and 2023, respectively(40,150)(36,299)Accumulated other comprehensive loss(168)(217)Total stockholdersâ€™ equity19,001Â 16,349Â Total liabilities and stockholdersâ€™ equity$34,409Â $30,729Â See accompanying Notes to Consolidated Financial Statements.54Table of Contents APPLIED MATERIALS, INC.CONSOLIDATED STATEMENTS OF STOCKHOLDERSâ€™ EQUITY(In millions, except per share amounts)Â Common StockAdditionalPaid-InCapitalRetainedEarningsTreasury StockAccumulatedOtherComprehensiveIncome (Loss)TotalSharesAmountSharesAmountBalance at OctoberÂ 31, 2021892Â $9Â $8,247Â $32,246Â 1,119Â $(27,995)$(260)$12,247Â Net incomeâ€”Â â€”Â â€”Â 6,525Â â€”Â â€”Â 6,525Â Other comprehensive income (loss), net of taxâ€”Â â€”Â â€”Â â€”Â â€”Â 58Â 58Â Dividends declared ($1.02 per common share)â€”Â â€”Â â€”Â (879)â€”Â â€”Â (879)Share-based compensationâ€”Â â€”Â 413Â â€”Â â€”Â â€”Â 413Â Net issuance under stock plans6Â â€”Â (67)â€”Â â€”Â â€”Â (67)Common stock repurchases(54)(1)â€”Â â€”Â 54Â (6,102)â€”Â (6,103)Balance at October 30, 2022844Â $8Â $8,593Â $37,892Â 1,173Â $(34,097)$(202)$12,194Â Net incomeâ€”Â â€”Â â€”Â 6,856Â â€”Â â€”Â 6,856Â Other comprehensive income (loss), net of taxâ€”Â â€”Â â€”Â â€”Â â€”Â (15)(15)Dividends declared ($1.22 per common share)â€”Â â€”Â â€”Â (1,022)â€”Â â€”Â (1,022)Share-based compensationâ€”Â â€”Â 490Â â€”Â â€”Â â€”Â 490Â Net issuance under stock plans7Â â€”Â 48Â â€”Â â€”Â â€”Â 48Â Common stock repurchases(18)â€”Â â€”Â â€”Â 18Â (2,202)â€”Â (2,202)Balance at October 29, 2023833Â $8Â $9,131Â $43,726Â 1,191Â $(36,299)$(217)$16,349Â Net incomeâ€”Â â€”Â â€”Â 7,177Â â€”Â â€”Â 7,177Â Other comprehensive income (loss), net of taxâ€”Â â€”Â â€”Â â€”Â â€”Â 49Â 49Â Dividends declared ($1.52 per common share)â€”Â â€”Â â€”Â (1,252)â€”Â â€”Â (1,252)Share-based compensationâ€”Â â€”Â 577Â â€”Â â€”Â â€”Â 577Â Net issuance under stock plans5Â â€”Â (48)â€”Â â€”Â â€”Â (48)Common stock repurchases(20)â€”Â â€”Â â€”Â 20Â (3,851)â€”Â (3,851)Balance at October 27, 2024818Â $8Â $9,660Â $49,651Â 1,211Â $(40,150)$(168)$19,001Â See accompanying Notes to Consolidated Financial Statements.55Table of ContentsAPPLIED MATERIALS, INC.CONSOLIDATED STATEMENTS OF CASH FLOWS(In millions)Fiscal Year202420232022Cash flows from operating activities:Net income$7,177Â $6,856Â $6,525Â Adjustments required to reconcile net income to cash provided by operating activities:Depreciation and amortization392Â 515Â 444Â Severance and related chargesâ€”Â â€”Â (4)Deferred income taxes(633)24Â (223)Share-based compensation577Â 490Â 413Â Other47Â 40Â 36Â Changes in operating assets and liabilities, net of amounts acquired:Accounts receivable(69)903Â (1,109)Inventories304Â 207Â (1,590)Other current and non-current assets287Â (48)(16)Accounts payable and accrued expenses281Â (138)390Â Contract liabilities(126)(167)1,039Â Income taxes payable389Â (20)(541)Other liabilities51Â 38Â 35Â Cash provided by operating activities8,677Â 8,700Â 5,399Â Cash flows from investing activities:Capital expenditures(1,190)(1,106)(787)Cash paid for acquisitions, net of cash acquiredâ€”Â (25)(441)Proceeds from sales and maturities of investments2,451Â 1,268Â 1,363Â Purchases of investments(3,588)(1,672)(1,492)Cash used in investing activities(2,327)(1,535)(1,357)Cash flows from financing activities:Debt borrowings, net of issuance costs694Â â€”Â â€”Â Proceeds from commercial paper401Â 991Â â€”Â Repayments of commercial paper(400)(900)â€”Â Proceeds from common stock issuances243Â 227Â 199Â Common stock repurchases(3,823)(2,189)(6,103)Tax withholding payments for vested equity awards(291)(179)(266)Payments of dividends to stockholders(1,192)(975)(873)Repayments of principals on finance leases(102)(7)â€”Â Cash used in financing activities(4,470)(3,032)(7,043)Increase (decrease) in cash, cash equivalents and restricted cash equivalents1,880Â 4,133Â (3,001)Cash, cash equivalents and restricted cash equivalentsÂ â€” beginning of period6,233Â 2,100Â 5,101Â Cash, cash equivalents and restricted cash equivalentsÂ â€” end of period$8,113Â $6,233Â $2,100Â Reconciliation of cash, cash equivalents, and restricted cash equivalentsCash and cash equivalents$8,022Â $6,132Â $1,995Â Restricted cash equivalents included in deferred income taxes and other assets91Â 101Â 105Â Total cash, cash equivalents, and restricted cash equivalents$8,113Â $6,233Â $2,100Â Supplemental cash flow information:Cash payments for income taxes$957Â $1,006Â $1,869Â Cash refunds from income taxes$15Â $53Â $156Â Cash payments for interest$205Â $205Â $205Â See accompanying Notes to Consolidated Financial Statements.56APPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTSNote 1Â Â Â Â Â Â Summary of Significant Accounting Policies and Recently Adopted Accounting StandardsSummary of Significant Accounting PoliciesPrinciples of Consolidation and Basis of PresentationThe consolidated financial statements include the accounts of Applied Materials, Inc. and its subsidiaries (we, us, and our) after elimination of intercompany balances and transactions. All references to a fiscal year apply to our fiscal year which ends on the last Sunday in October. Fiscal 2024, 2023 and 2022 each contained 52 weeks. Each fiscal quarter of 2024, 2023 and 2022 contained 13Â weeks. Certain prior-year amounts have been reclassified to conform to current-year presentation.Use of EstimatesThe preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make judgments, estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ materially from those estimates. On an ongoing basis, we evaluate our estimates, including those related to standalone selling price (SSP) related to revenue recognition, accounts receivable and sales allowances, fair values of financial

instruments, inventories, intangible assets and goodwill, useful lives of intangible assets and property, plant and equipment, fair values of share-based awards, warranty, and income taxes, among others. We base our estimates on historical experience and on various other assumptions that are believed to be reasonable, the results of which form the basis for making judgments about the carrying values of assets and liabilities.Cash EquivalentsAll highly-liquid investments with a remaining maturity of three months or less at the time of purchase are considered to be cash equivalents. Cash equivalents consist primarily of investments in institutional money market funds and investment grade commercial paper.InvestmentsAll of our investments, except equity investments, are classified as available-for-sale at the respective balance sheet dates. Investments classified as available-for-sale are measured and recorded in the Consolidated Balance Sheets at fair value, and unrealized gains and losses, net of tax, are reported as a separate component of other comprehensive income. Interest earned on cash and investments, as well as realized gains and losses on sale of securities, are included in interest and other income, net in the Consolidated Statements of Operations.Our equity investments with readily determinable values consist of publicly traded equity securities. These investments are measured at fair value using quoted prices for identical assets in an active market. Privately held equity investments without readily determinable fair value are measured at cost, less impairment, adjusted by observable price changes. Adjustments resulting from impairments and observable price changes are recorded in interest and other income, net in the Consolidated Statements of Operations.Investments with remaining effective maturities of 12Â months or less from the balance sheet date are classified as short-term investments. Investments with remaining effective maturities of more than 12Â months from the balance sheet date are classified as long-term investments. Fair Value MeasurementsOur financial assets are measured and recorded at fair value on a recurring basis, except for equity investments in privately held companies. These equity investments are generally accounted for under the measurement alternative, defined as cost, less impairments, adjusted for subsequent observable price changes and are periodically assessed for impairment when events or circumstances indicate that a decline in value may have occurred. Our nonfinancial assets, such as goodwill, intangible assets, and property, plant and equipment, are recorded at cost and are assessed for impairment whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable.We use the following hierarchy, which prioritizes the inputs to valuation techniques used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:Â â€¢LevelÂ 1Â â€” Quoted prices in active markets for identical assets or liabilities;57Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)â€¢LevelÂ 2Â â€” Inputs other than LevelÂ 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; andâ€¢LevelÂ 3Â â€” Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.In determining the fair value of our debt securities investments, we use pricing information from pricing services that value securities based on quoted market prices and models that utilize observable market inputs. In the event a fair value estimate is unavailable from a pricing service, we generally obtain non-binding price quotes from brokers. In addition, to validate pricing information obtained from pricing services, we periodically perform supplemental analysis on a sample of securities. We review any significant unanticipated differences identified through this analysis to determine the appropriate fair value. As of OctoberÂ 27, 2024, substantially all of our available-for-sale, short-term and long-term investments were recognized at fair value that was determined based upon observable inputs or quoted prices.Our equity investments with readily determinable values are measured at fair value using quoted prices for identical assets in an active market and the changes in fair value of these equity investments are recognized in the consolidated statements of operations. InventoriesInventories are stated at the lower of cost or net realizable value, with approximate cost determined on a first-in, first-out (FIFO) basis. We adjust inventory carrying value for estimated obsolescence equal to the difference between the cost of inventory and the estimated net realizable value based upon assumptions about future demand and market conditions. We fully write down inventories and noncancelable purchase orders for inventory deemed obsolete. We perform periodic reviews of inventory items to identify excess inventories on hand by comparing on-hand balances to anticipated usage using recent historical activity as well as anticipated or forecasted demand. If estimates of customer demand diminish further or market conditions become less favorable than those projected by us, additional inventory adjustments may be required.Property, Plant and EquipmentProperty, plant and equipment is stated at cost. Depreciation is provided over the estimated useful lives of the assets using the straight-line method. In connection with our periodic review of estimated useful lives of the property, plant and equipment, we have increased the estimated useful lives of certain assets effective as of the beginning of fiscal 2024. The updated estimated useful lives of certain assets for financial reporting purposes are as follows: buildings and improvements, 3 to 30 years with certain buildings and improvementsâ€™ useful lives increased by 5 years; demonstration and manufacturing equipment increased to 5Â to 8 years. The estimated useful lives for the following assets remained unchanged from fiscal 2023: software, 3 to 5 years; and furniture, fixtures and other equipment, 3 to 5 years. Land improvements are amortized over the shorter of 15 yearsÂ or the estimated useful life. Leasehold improvements are amortized over the shorter of five years or the lease term.The change in accounting estimate was applied on a prospective basis to the assets on our balance sheet as of October 29, 2023, as well as to subsequent asset purchases. Based on the net carrying amounts of assets in use as of the end of fiscal 2023, the impact of this change was a reduction of $128Â million in depreciation expense during fiscal 2024, and an increase of $0.12 in both basic and diluted earnings per share for fiscal 2024.Government AssistanceWe receive government assistance from various domestic and foreign governments in the form of cash grants or refundable tax credits. These arrangements incentivize us to continue growing our capital investments and research and development activities. Government incentives generally contain conditions that must be met in order for the assistance to be earned. We recognize the incentives when there is reasonable assurance that we will comply with all conditions specified in the incentive arrangement and the incentive will be received. We record capital expenditure related incentives as an offset to the associated property, plant and equipment, net within our Consolidated Balance Sheets and recognize a reduction to depreciation expense over the useful life of the corresponding acquired asset. We record incentives related to operating activities as a reduction to expense in the same line item on the Consolidated Statements of Operations as the expenditure for which the grant is intended to compensate.58Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)AcquisitionsWe account for the acquisition of a business using the acquisition method of accounting. Our methodology for allocating the purchase price relating to purchase acquisitions is determined through established and generally accepted valuation techniques. We allocate the fair value of the purchase consideration of our acquisitions to the tangible assets, liabilities, and intangible assets acquired, including in-process technology, based on their estimated fair values. Goodwill is measured as the excess of the purchase price over the sum of the amounts assigned to tangible and identifiable intangible assets acquired less liabilities assumed. We assign assets acquired (including goodwill) and liabilities assumed to one or more reporting units as of the date of acquisition. Typically, acquisitions relate to a single reporting unit and thus do not require the allocation of goodwill to multiple reporting units. If the products obtained in an acquisition are assigned to multiple reporting units, the goodwill is distributed to the respective reporting units as part of the purchase price allocation process. The value assigned to intangible assets is usually based on estimates and judgments regarding expectations for the success and life cycle of products and technology acquired. Goodwill and Intangible AssetsGoodwill is not amortized but is reviewed for impairment annually during the fourth quarter of each fiscal year and whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable. The process of evaluating the potential impairment of goodwill requires judgment.When reviewing goodwill for impairment, we first perform a qualitative assessment to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value. In performing a qualitative assessment, we consider business conditions and other factors including, but not limited to (i) adverse industry or economic trends, (ii) restructuring actions and lower projections that may impact future operating results, (iii) sustained decline in share price, and (iv) overall financial performance and other events affecting the reporting units. If we conclude that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, then a quantitative impairment test is performed by estimating the fair value of the reporting unit and comparing it to its carrying value. If the carrying value of a reporting unit exceeds its fair value, we would record an impairment charge equal to the excess of the carrying value of the reporting unit over its fair value.In the fourth quarter of fiscal 2024, we performed a qualitative assessment to test goodwill for all of our reporting units for impairment. we determined that it was more likely than not that each of our reporting unitsâ€™ fair values exceeded their respective carrying values and that it was not necessary to perform the quantitative goodwill impairment test for any of our reporting units. No goodwill impairment was recorded during fiscal 2024, 2023 and 2022.Intangible assets with finite lives are presented at cost, net of accumulated amortization, and are amortized over their estimated useful lives of 1 to 15 years using the straight-line method. We evaluate the useful lives of our intangible assets each reporting period to determine whether events and circumstances require revising the remaining period of amortization. Intangible assets with infinite lives are not subject to amortization and consist primarily of in-process technology, which will be subject to amortization upon commercialization. If an in-process technology project is abandoned, the acquired technology attributable to the project will be written-off. The carrying values of our intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying value of an asset or asset group may not be recoverable. The balances of our intangible assets were not material as of OctoberÂ 27, 2024 or OctoberÂ 29, 2023 and amortization expenses were not material for fiscal 2024, 2023 and 2022.Long-Lived AssetsLong-lived assets are evaluated for impairment whenever events or changes in circumstances indicate the carrying value of an asset or asset group may not be recoverable. We assess the recoverability of the assets by comparing the undiscounted future cash flow expected to result from the use and eventual disposal of the assets to their respective carrying value. If not recoverable, we recognize an impairment loss to the excess of the carrying value over the fair value of those assets, and reduce the carrying value of the assets to their respective fair value. Fair value is determined by available market valuations, when available and appropriate, or by discounted cash flows.59Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)LeasesA contract contains a lease when we have the right to control the use of an identified asset for a period of time in exchange for consideration. We lease certain facilities, vehicles and equipment under non-cancelable operating leases, many of which include options to renew. Options that are reasonably certain to be exercised are included in the calculation of the right-of-use asset and lease liability. Our finance leases are those that contain a purchase option which we are reasonably certain to exercise at the end of the lease term. Our leases do not contain residual value guarantees or significant restrictions that impact the accounting for leases. As implicit rates are not available for the leases, we use the incremental borrowing rate as of the lease commencement date in order to measure the right-of-use asset and liability. Operating lease expense is generally recognized on a straight-line basis over the lease term. Finance lease expense is generally recognized on a straight-line basis over the life of the underlying leased asset. We elected the practical expedient to account for lease and non-lease components as a single lease component for all leases. For leases with a term of one year or less, we elected not to record a right-of-use asset or lease liability and to account for the associated lease payments as they become due. A majority of our lease arrangements are operating leases. The balances of our operating leases right-of-use assets and liabilities were not material as of OctoberÂ 27, 2024 or OctoberÂ 29, 2023. Operating lease cost for fiscal 2024, 2023 and 2022 was not material.Revenue Recognition from Contracts with CustomersWe recognize revenue when promised goods or services are transferred to a customer in an amount that reflects the consideration to which we expect to be entitled in exchange for those goods or services. We determine revenue recognition through the following five steps: (1) identification of the contract(s) with customers, (2) identification of the performance obligations in the contract, (3) determination of the transaction price, (4) allocation of the transaction price to the performance obligations in the contract, and (5) recognition of revenue when, or as, a performance obligation is satisfied.Identifying the contract(s) with customers. We sell equipment, services, and spare parts directly to our customers in the semiconductor, display, and related industries. We generally consider written documentation including, but not limited to, signed purchase orders, master agreements, and sales orders as contracts provided that collection is probable. Collectability is assessed based on the customerâ€™s creditworthiness determined by reviewing the customerâ€™s published credit and financial information, historical payment experience, as well as other relevant factors.Identifying the performance obligations. Our performance obligations include delivery of equipment, service agreements, spare parts, installation, extended warranty and training. Our service agreements are considered one performance obligation and may include multiple goods and services that we provide to the customer to deliver against a performance metric. Judgment is used to determine whether multiple promised goods or services in a contract should be accounted for separately or as a group. Determine the transaction price. The transaction price for our contracts with customers may include fixed and variable consideration. We include variable consideration in the transaction price to the extent that it is probable that a significant reversal of revenue will not occur when the uncertainty associated with the variable consideration is subsequently resolved. Allocate the transaction price to the performance obligations. A contractâ€™s transaction price is allocated to each distinct performance obligation identified within the contract. We generally estimate the standalone selling price of a distinct performance obligation based on historical cost plus an appropriate margin. For contracts with multiple performance obligations, we allocate the contractâ€™s transaction price to each performance obligation using the relative standalone selling price of each distinct good or service in the contract.Recognizing the revenue as performance obligations are satisfied. We recognize revenue from equipment and spares parts at a point in time when we have satisfied our performance obligation by transferring control of the goods to the customer which typically occurs at shipment or delivery. Revenue from service agreements is recognized over time, typically within 12 months, as customers receive the benefits of services.The incremental costs to obtain a contract are not material.Payment Terms. Payment terms vary by contract. Generally, the majority of payments are due within a certain number of days from shipment of goods or performance of service. The remainder is typically due upon customer technical acceptance. In certain circumstances we may receive deposits from customers for future deliverables. Our payment terms do not generally contain a significant financing component.60Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Shipping and Handling CostsWe account for shipping and handling activities related to contracts with customers as costs to fulfill our promise to transfer the associated products. Accordingly, amounts billed for shipping and handling costs are recorded as a component of net revenue and costs as a component of cost of products sold.WarrantyOur products are generally sold with a warranty for a 12-month period following installation. Parts and labor are covered under the terms of the warranty agreement. We provide for the estimated cost of warranty when revenue is recognized. Estimated warranty costs are determined by analyzing specific product, current and historical configuration statistics and regional warranty support costs. Our warranty obligation is affected by product and component failure rates, material usage and labor costs incurred in correcting product failures during the warranty period. If actual warranty costs differ substantially from our estimates, revisions to the estimated warranty liability would be required. Quarterly warranty consumption is generally associated with sales that occurred during the preceding four quarters, and quarterly warranty provisions are generally related to the current quarterâ€™s sales.We also sell extended warranty contracts to our customers which provide an extension of the standard warranty coverage period of up to 2 years. We receive payment at the inception of the contract and recognizes revenue ratably over the extended warranty coverage period, as the customer simultaneously receives and consumes the benefits of the extended warranty.Our warranty reserves balances and the components of changes in our warranty reserves were not material for all periods presented.Sales and Value Added TaxesTaxes collected from customers and remitted to governmental authorities are presented on a net basis in the Consolidated Statements of Operations.Research, Development and Engineering CostsResearch, development and engineering costs are expensed as incurred.Income TaxesWe recognize a current tax liability for the estimated amount of income tax payable on tax returns for the current fiscal year. Deferred tax assets and liabilities are recognized for the estimated future tax effects of temporary differences between the book and tax bases of assets and liabilities. Deferred tax assets are also recognized for net operating loss and tax credit carryovers. Deferred tax assets are offset by a valuation allowance to the extent it is more likely than not that they are not expected to be realized. Deferred tax assets and liabilities are measured based on enacted tax rates that are expected to apply in the period in which the assets are realized or the liabilities are settled. Deferred tax assets and liabilities are adjusted for the effect of a change in tax rates, laws, or status when the change is enacted.We recognize tax benefits from uncertain tax positions only if it is more likely than not that the tax position will be sustained upon examination by the taxing authorities, based on the technical merits of the position. The tax benefits

recognized from such positions are estimated based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement. Any changes in judgment related to uncertain tax positions are recognized in our provision for income taxes in the quarter in which such change occurs. Interest and penalties related to uncertain tax positions are recognized in our provision for income taxes.61Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Derivative Financial InstrumentsWe use financial instruments, such as foreign currency forward and option contracts, to hedge a portion of, but not all, existing and anticipated foreign currency denominated transactions typically expected to occur within 24 months. The purpose of our foreign currency management is to mitigate the effect of exchange rate fluctuations on certain foreign currency denominated revenues, costs and eventual cash flows. In certain cases, we also use interest rate swap or lock agreements to hedge against the variability of cash flows due to changes in the benchmark interest rate of fixed rate debt. The terms of derivative financial instruments used for hedging purposes are generally consistent with the timing of the transactions being hedged. Our derivative financial instruments are recorded as assets or liabilities at fair value and reported gross on our Consolidated Balance Sheets. However, under master netting agreements in place with our counterparties, we may net settle transactions of the same currency under certain circumstances. For derivative instruments designated and qualifying as cash flow hedges, the gain or loss is reported as a component of accumulated other comprehensive income (loss) in stockholdersâ€™ equity, and is reclassified into earnings when the hedged transaction affects earnings. Any portion excluded from the assessment of effectiveness is recognized in the same line as the hedged transaction but may be recognized in a different manner, e.g. amortized. If a hedged transaction becomes probable of not occurring according to the original strategy, the hedge relationship is discontinued and we recognize the gain or loss on the associated derivative in earnings. For hedges of existing foreign currency denominated assets or liabilities, the gain or loss is recorded in earnings in the same period to offset the changes in the fair value of the assets or liabilities being hedged. Foreign CurrencyAs of OctoberÂ 27, 2024, all of our subsidiaries use the United States dollar as their functional currency. Accordingly, assets and liabilities of these subsidiaries are remeasured using exchange rates in effect at the end of the period, except for non-monetary assets, such as inventories and property, plant and equipment, which are remeasured using historical exchange rates. Foreign currency-denominated revenues and costs are remeasured using average exchange rates for the period, except for costs related to the non-monetary assets and liabilities, which are remeasured using historical exchange rates. The resulting remeasurement gains and losses are included in interest and other income, net in the Consolidated Statements of Operations as incurred.Concentrations of Credit RiskFinancial instruments that potentially subject us to significant concentrations of credit risk consist principally of cash equivalents, investments, trade accounts receivable and derivative financial instruments used in hedging activities. We invest in a variety of financial instruments, such as, but not limited to, commercial paper, corporate bonds, municipal securities, United States Treasury and agency securities, and asset-backed and mortgage-backed securities, and, by policy, limits the amount of credit exposure with any one financial institution or commercial issuer. We are exposed to credit-related losses in the event of nonperformance by counterparties to derivative financial instruments but do not expect any counterparties to fail to meet their obligations. We perform ongoing credit evaluations of our customersâ€™ financial condition and generally require no collateral to secure accounts receivable. We maintain an allowance for potentially uncollectible accounts receivable based on our assessment of the collectability of accounts receivable. We regularly review the allowance by considering factors such as historical experience, credit quality, age of the accounts receivable balances, and current economic conditions that may affect a customerâ€™s ability to pay. In addition, we utilize deposits and/or letters of credit to mitigate credit risk when considered appropriate.Recently Adopted Accounting StandardsContract Assets and Contract Liabilities from Revenue Contracts with Customers in a Business Combination. In October 2021, the Financial Accounting Standards Board (FASB) issued an accounting standard update to improve the accounting for contract assets and contract liabilities from revenue contracts with customers in a business combination (Topic 805). This amendment improves comparability for both the recognition and measurement of acquired revenue contracts with customers at the date of and after a business combination. We adopted this authoritative guidance in the first quarter of fiscal 2024 and the impact of the adoption depends on the facts and circumstances of future acquisitions. During fiscal 2024, the adoption of this guidance had no impact to our consolidated financial statements as there were no acquisitions during the year.62Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Note 2Â Â Â Â Â Â Earnings Per ShareBasic earnings per share is determined using the weighted average number of common shares outstanding during the period. Diluted earnings per share is determined using the weighted average number of common shares and potential common shares (representing the dilutive effect of restricted stock units and employee stock purchase plan shares) outstanding during the period. Our net income has not been adjusted for any period presented for purposes of computing basic or diluted earnings per share due to our non-complex capital structure. Â Fiscal Year202420232022Â (InÂ millions,Â exceptÂ perÂ shareÂ amounts)Numerator:Net income$7,177Â $6,856Â $6,525Â Denominator:Weighted average common shares outstanding827Â 840Â 871Â Effect of weighted dilutive restricted stock units and employee stock purchase plan shares7Â 5Â 6Â Denominator for diluted earnings per share834Â 845Â 877Â Basic earnings per share$8.68Â $8.16Â $7.49Â Diluted earnings per share$8.61Â $8.11Â $7.44Â Potentially weighted dilutive securitiesâ€"Â â€"Â 3Â Excluded from the calculation of diluted earnings per share are securities attributable to outstanding restricted stock units where the combined exercise price and average unamortized fair value are greater than the average market price of our common stock, and therefore their inclusion would be anti-dilutive.63Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Note 3Â Â Â Â Â Â Cash, Cash Equivalents and InvestmentsSummary of Cash, Cash Equivalents and InvestmentsThe following tables summarize our cash, cash equivalents and investments by security type:Â October 27, 2024CostGrossUnrealizedGainsGrossUnrealizedLossesEstimatedFairÂ ValueÂ (In millions)Cash$1,313Â $â€"Â $â€"Â $1,313Â Cash equivalents:Money market funds*3,421Â â€"Â â€"Â 3,421Â Bank certificates of deposit and time deposits90Â â€"Â â€"Â 90Â U.S. Treasury and agency securities1,394Â â€"Â â€"Â 1,394Â Municipal securities19Â â€"Â â€"Â 19Â Commercial paper, corporate bonds and medium-term notes1,785Â â€"Â â€"Â 1,785Â Total cash equivalents6,709Â â€"Â â€"Â 6,709Â Total cash and cash equivalents$8,022Â $â€"Â $â€"Â $8,022Â Short-term and long-term investments:Bank certificates of deposit and time deposits$13Â $â€"Â $â€"Â $13Â U.S. Treasury and agency securities1,306Â â€"Â 2Â 1,304Â Non-U.S. government securities**5Â â€"Â â€"Â 5Â Municipal securities441Â 2Â 2Â 441Â Commercial paper, corporate bonds and medium-term notes803Â 4Â 2Â 805Â Asset-backed and mortgage-backed securities656Â 3Â 5Â 654Â Â Â Â Â Â Â Total fixed income securities3,224Â 9Â 11Â 3,222Â Publicly traded equity securities543Â 185Â 5Â 723Â Equity investments in privately held companies255Â 58Â 22Â 291Â Â Â Â Â Â Â Total equity investments798Â 243Â 27Â 1,014Â Total short-term and long-term investments$4,022Â $252Â $38Â $4,236Â Total cash, cash equivalents and investments$12,044Â $252Â $38Â $12,258Â Â _____*Excludes $91 million of restricted cash equivalents invested in money market funds related to deferred compensation plans.**Includes Canadian provincial government debt.64Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)October 29, 2023CostGrossUnrealizedGainsGrossUnrealizedLossesEstimatedFairÂ ValueÂ (In millions)Cash$1,417Â $â€"Â $â€"Â $1,417Â Cash equivalents:Money market funds*3,260Â â€"Â â€"Â 3,260Â Municipal securities26Â â€"Â â€"Â 26Â Commercial paper, corporate bonds and medium-term notes1,429Â â€"Â â€"Â 1,429Â Total cash equivalents4,715Â â€"Â â€"Â 4,715Â Total cash and cash equivalents$6,132Â $â€"Â $â€"Â $6,132Â Short-term and long-term investments:Bank certificates of deposit and time deposits$18Â $â€"Â $â€"Â $18Â U.S. Treasury and agency securities381Â â€"Â 7Â 374Â Non-U.S. government securities**7Â â€"Â 1Â 6Â Municipal securities438Â â€"Â 11Â 427Â Commercial paper, corporate bonds and medium-term notes760Â â€"Â 12Â 748Â Asset-backed and mortgage-backed securities502Â â€"Â 15Â 487Â Â Â Â Â Â Â Total fixed income securities2,106Â â€"Â 46Â 2,060Â Publicly traded equity securities543Â 171Â 16Â 698Â Equity investments in privately held companies192Â 78Â 10Â 260Â Â Â Â Â Â Â Total equity investments735Â 249Â 26Â 958Â Total short-term and long-term investments$2,841Â $249Â $72Â $3,018Â Total cash, cash equivalents and investments$8,973Â $249Â $72Â $9,150Â _____*Excludes $101Â million of restricted cash equivalents invested in money market funds related to deferred compensation plans.**Includes Canadian provincial government debt.Â During fiscal 2024, 2023 and 2022, interest income from our cash, cash equivalents and fixed income securities was $486 million, $262 million and $44 million, respectively.Maturities of InvestmentsThe following table summarizes the contractual maturities of our investments at OctoberÂ 27, 2024:Â CostEstimated FairÂ ValueÂ (In millions)Due in one year or less$1,405Â $1,403Â Due after one through five years1,163Â 1,165Â No single maturity date*1,454Â 1,668Â Total$4,022Â $4,236Â Â _____*Securities with no single maturity date include publicly traded and privately held equity securities and asset-backed and mortgage-backed securities.Â 65Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Gains and Losses on InvestmentsÂ At OctoberÂ 27, 2024, gross unrealized losses related to our fixed income portfolio were not material. We regularly review our fixed income portfolio to identify and evaluate investments that have indications of possible impairment from credit losses or other factors. Factors considered in determining whether an unrealized loss is considered to be a credit loss include: the significance of the decline in value compared to the cost basis; the financial condition; credit quality and near-term prospects of the investee; and whether it is more likely than not that we will be required to sell the security prior to recovery. Credit losses related to available-for-sale debt securities are recorded as an allowance for credit losses through interest and other income (expense), net. Any additional changes in fair value that are not related to credit losses are recognized in accumulated other comprehensive income (loss) (AOCI). During fiscal 2024, 2023 and 2022, gross realized gains and losses related to our fixed income portfolio were not material. During fiscal 2024, 2023 and 2022, we did not recognize material credit losses and the ending allowance for credit losses was not material.The components of gain (loss) on equity investments for each fiscal year were as follows:202420232022(In millions)Publicly traded equity securitiesUnrealized gain$332Â $193Â $30Â Unrealized loss(287)(44)(62)Realized gain on sales and dividends5Â 9Â 7Realized loss on sales or impairment(1)(4)â€"Â Equity investments in privately held companiesUnrealized gain3Â 15Â 41Unrealized loss(17)(30)(5)Realized gain on sales and dividends4Â 9Â 3Realized loss on sales or impairment(19)(121)(7)Total gain (loss) on equity investments, net$20Â $27Â $7Â 66Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Note 4Â Â Â Â Â Â Fair Value MeasurementsAssets Measured at Fair Value on a Recurring BasisThe following table presents our fair value hierarchy for our financial assets (excluding cash balances) measured at fair value on a recurring basis:Â Â October 27, 2024October 29, 2023Â Level 1Level 2TotalLevel 1Level 2TotalÂ (In millions)Assets:Available-for-sale debt security investmentsMoneyÂ marketÂ funds*$3,512Â $â€"Â $3,512Â $3,361Â $â€"Â $3,361Â Bank certificates of deposit and time depositsâ€"Â 103Â 103Â â€"Â 18Â 18Â U.S. Treasury and agency securities2,684Â 14Â 2,698Â 331Â 43Â 374Â Non-U.S. government securitiesâ€"Â 5Â 5Â â€"Â 6Â 6Â Municipal securitiesâ€"Â 460Â 460Â â€"Â 453Â 453Â Commercial paper, corporate bonds and medium-term notesâ€"Â 2,590Â 2,590Â â€"Â 2,177Â 2,177Â Asset-backed and mortgage-backed securitiesâ€"Â 654Â 654Â â€"Â 487Â 487Â Total available-for-sale debt security investments$6,196Â $3,826Â $10,022Â $3,692Â $3,184Â $6,876Â Equity investments with readily determinable valuesPublicly traded equity securities$723Â $â€"Â $723Â $698Â $â€"Â $698Â Total equity investments with readily determinable values$723Â $â€"Â $723Â $698Â $â€"Â $698Â Total$6,919Â $3,826Â $10,745Â $4,390Â $3,184Â $7,574Â Â _____*Amounts as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023 include $91 million and $101 million, respectively, invested in money market funds related to deferred compensation plans. Due to restrictions on the distribution of these funds, they are classified as restricted cash equivalents and are included in deferred income taxes and other assets in the Consolidated Balance Sheets. We did not have any financial assets measured at fair value on a recurring basis within Level 3 fair value measurements as of OctoberÂ 27, 2024 or OctoberÂ 29, 2023.Assets and Liabilities without Readily Determinable Values Measured on a Non-recurring BasisOur equity investments without readily determinable values consist of equity investments in privately held companies. We elected the measurement alternative, defined as cost, less impairments, adjusted for subsequent observable price changes on a prospective basis for certain equity investments without readily determinable fair values and are required to account for any subsequent observable changes in fair value within the statements of operations. These investments are classified as Level 3 within the fair value hierarchy and periodically assessed for impairment when an event or circumstance indicates that a decline in value may have occurred. Impairment losses on equity investments in privately held companies, included in the above table, were not material during fiscal 2024 and 2022 and were $121 million during fiscal 2023. These impairment losses are included in interest and other income (expense), net in the Consolidated Statement of Operations.OtherThe carrying amounts of our financial instruments, including cash and cash equivalents, restricted cash equivalents, accounts receivable, commercial paper notes, and accounts payable and accrued expenses, approximate fair value due to their short maturities. At OctoberÂ 27, 2024, the aggregate principal amount of long-term senior unsecured notes was $5.5 billion, and the estimated fair value was $5.1 billion. At OctoberÂ 29, 2023, the aggregate principal amount of long-term senior unsecured notes was $5.5 billion and the estimated fair value was $4.7 billion. The estimated fair value of long-term senior unsecured notes is determined by Level 2 inputs and is based primarily on quoted market prices for the same or similar issues. See Note 9 of the Notes to the Consolidated Financial Statements for further detail of existing debt.67Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Note 5Â Â Â Â Â Â Derivative Instruments and Hedging ActivitiesDerivative Financial InstrumentsWe conduct business in a number of foreign countries, with certain transactions denominated in local currencies, such as the Japanese yen, Israeli shekel, euro and Taiwanese dollar. We use derivative financial instruments, such as foreign currency forward and option contracts, to hedge certain forecasted foreign currency denominated transactions expected to occur typically within the next 24 months. The purpose of our foreign currency management is to mitigate the effect of exchange rate fluctuations on certain foreign currency denominated revenues, costs and eventual cash flows. The terms of currency instruments used for hedging purposes are generally consistent with the timing of the transactions being hedged.We do not use derivative financial instruments for trading or speculative purposes. Derivative instruments and hedging activities, including foreign exchange and interest rate contracts, are recognized on the balance sheet at fair value. Changes in the fair value of derivatives that do not qualify for hedge accounting treatment are recognized currently in earnings. All of our derivative financial instruments are recorded at their fair value in other current assets or in accounts payable and accrued expenses.Â Hedges related to anticipated transactions are designated and documented at the inception of the hedge as cash flow hedges and foreign exchange derivatives are typically entered into once per month. Cash flow hedges are evaluated for effectiveness quarterly. The effective portion of the gain or loss on these hedges is reported as a component of AOCI in stockholdersâ€™ equity and is reclassified into earnings when the hedged transaction affects earnings. The majority of the after-tax net income or loss related to foreign exchange derivative instruments included in AOCI at OctoberÂ 27, 2024 is expected to be reclassified into earnings within 12 months. Changes in fair value caused by changes in time value of option contracts designated as cash flow hedges are excluded from the assessment of effectiveness. The initial value of this excluded component is amortized on a straight-line basis over the life of the hedging instrument and recognized in the financial statement line item to which the hedge relates. If the transaction being hedged is probable not to occur, we recognize the gain or loss on the associated financial instrument in the consolidated statement of operations. The amount recognized due to discontinuance of cash flow hedges that were probable of not occurring by the end of the originally specified time period was not significant for fiscal years 2024, 2023 or 2022.Foreign currency forward contracts are generally used to hedge certain foreign currency denominated assets or liabilities. Accordingly, changes in the fair value of these hedges are recorded in earnings to offset the changes in the fair value of the assets or liabilities being hedged.As of OctoberÂ 27, 2024 and OctoberÂ 29, 2023, the total outstanding notional amount of foreign exchange contracts was $2.0Â billion and $1.7Â billion, respectively. The fair values of foreign exchange derivative instruments at OctoberÂ 27, 2024 and OctoberÂ 29, 2023 were not material.We are also exposed to interest rate risk associated with our potential future borrowings. During fiscal 2024, we entered into a series of interest rate contracts to hedge against the variability of cash flows due to changes in the benchmark interest rate of fixed rate debt. These instruments were designated as cash flow hedges at inception and were settled in conjunction with the issuance of debt in June 2024.The gain (loss) on derivatives in cash flow hedging relationships recognized in AOCI for derivatives designated as hedging instruments were not material for fiscal year 2024, 2023 and 2022.The effects of derivative instruments, both those designated as cash flow hedges and those that are not designated, on the Consolidated Statements of Operations were not material for fiscal 2024, 2023 and 2022.Credit Risk Contingent FeaturesIf our

credit rating were to fall below investment grade, we would be in violation of credit risk contingent provisions of the derivative instruments discussed above, and certain counterparties to the derivative instruments could request immediate payment on derivative instruments in net liability positions. The aggregate fair value of all derivative instruments with credit-risk related contingent features that were in a net liability position was immaterial as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023.Entering into derivative contracts with banks exposes us to credit-related losses in the event of the banksâ€™ nonperformance. However, our exposure is not considered significant.68Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Note 6Â Â Â Â Â Â Â Accounts Receivable, NetWe have agreements with various financial institutions to sell accounts receivable and discount promissory notes from selected customers. We sell our accounts receivable generally without recourse. From time to time, we also discount letters of credit issued by customers through various financial institutions. The discounting of letters of credit depends on many factors, including the willingness of financial institutions to discount the letters of credit and the cost of such arrangements.We sold $0.4 billion, $0.7 billion and $1.0 billion of accounts receivable during fiscal 2024, 2023 and 2022, respectively. We did not discount letters of credit issued by customers in fiscal 2024, 2023 and 2022. There was no discounting of promissory notes in each of fiscal 2024, 2023 and 2022. Financing charges on the sale of receivables and discounting of letters of credit are included in interest expense in the accompanying Consolidated Statements of Operations and were not material for all years presented.We maintain an allowance for credit losses for estimated losses resulting from the inability of our customers to make required payments. This allowance is based on historical experience, credit evaluations, specific customer collection history and any customer-specific issues we have identified. Changes in circumstances, such as an unexpected material adverse change in a major customerâ€™s ability to meet its financial obligation to us or its payment trends, may require us to further adjust our estimates of the recoverability of amounts due to us. Bad debt expense and any reversals are recorded in marketing and selling expenses in the Consolidated Statement of Operations.The balances of allowance for credit losses and changes in allowance for credit losses were not material for fiscal 2024, 2023 and 2022.Â We sell our products principally to manufacturers within the semiconductor and display industries. While we believe that our allowance for credit losses is adequate and represents our best estimate as of OctoberÂ 27, 2024, we continue to closely monitor customer liquidity and industry and economic conditions, which may result in changes to our estimates.Note 7Â Â Â Â Â Â Â Contract Balances and Performance ObligationsContract Assets and LiabilitiesContract assets primarily result from receivables for goods transferred to customers where payment is conditional upon technical sign off and not just the passage of time. Contract liabilities consist of unsatisfied performance obligations related to advance payments received and billings in excess of revenue recognized. Our contract assets and liabilities are reported in a net position on a contract-by-contract basis at the end of each reporting period.Contract assets are generally classified as current and are included in Other Current Assets in the Consolidated Balance Sheets. Contract liabilities are classified as current or non-current based on the timing of when performance obligations will be satisfied and associated revenue is expected to be recognized.Contract balances at the end of each reporting period were as follows:October 27, 2024October 29, 2023(In millions)Contract assets$269Â $274Â Contract liabilities$2,849Â $2,975Â The decrease in contract assets during fiscal 2024, was primarily due to a reduction in goods transferred to customers where payment was conditional upon technical sign off.During fiscal 2024, we recognized revenue of approximately $2.7 billion related to contract liabilities at OctoberÂ 29, 2023. This reduction in contract liabilities was partially offset by new billings for products and services for which there were unsatisfied performance obligations to customers and revenue had not yet been recognized as of OctoberÂ 27, 2024.There were no credit losses recognized on our accounts receivables and contract assets during fiscal 2024 and 2023.69Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Performance ObligationsAs of OctoberÂ 27, 2024, the amount of remaining unsatisfied performance obligations on contracts, primarily consisting of written purchase orders received from customers, with an original estimated duration of one year or more was approximately $3.7 billion, of which approximately 62% is expected to be recognized within 12 months and the remainder is expected to be recognized within the following 24 months thereafter.New export rules and regulations issued in December 2024 are expected to have an immaterial impact on remaining unsatisfied performance obligations on contracts with an original estimated duration of one year or more.We have elected the available practical expedient to exclude the value of unsatisfied performance obligations for contracts with an original expected duration of one year or less.Note 8Â Â Â Â Â Â Â Balance Sheet DetailÂ October 27,2024October 29,2023Â (In millions)InventoriesCustomer service spares$1,742Â $1,589Â Raw materials1,680Â 1,653Â Work-in-process879Â 997Â Finished goodsDeferred cost of sales217Â 413Â Evaluation inventory459Â 423Â Manufactured on-hand inventory444Â 650Â Total finished goods1,120Â 1,486Â Total inventories$5,421Â $5,725Â Â October 27,2024October 29,2023Â (In millions)Other Current AssetsPrepaid income taxes and income taxes receivable$120Â $412Â Prepaid expenses and other974Â 976Â $1,094Â $1,388Â UsefulÂ LifeOctober 27,2024October 29,2023Â (In years)(In millions)Property, Plant and Equipment, NetLand and improvements$492Â $393Â Buildings and improvements3-302,359Â 2,194Â Demonstration and manufacturing equipment5-82,578Â 2,353Â Furniture, fixtures and other equipment3-5782Â 762Â Construction in progress898Â 672Â Gross property, plant and equipment7,109Â 6,374Â Accumulated depreciation(3,770)(3,651)$3,339Â $2,723Â Â Depreciation expense was $346 million, $471 million and $404 million for fiscal 2024, 2023 and 2022, respectively.70Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)October 27,2024October 29,2023(In millions)Deferred Income Taxes and Other AssetsNon-current deferred income taxes$2,393Â $1,729Â Operating lease right-of-use assets375Â 370Â Finance lease right-of-use assetsâ€”Â 108Â Income tax receivables and other assets314Â 345Â $3,082Â $2,552Â October 27,2024October 29,2023Â (In millions)Accounts Payable and Accrued ExpensesAccounts payable$1,570Â $1,478Â Compensation and employee benefits1,188Â 1,024Â Warranty364Â 332Â Dividends payable327Â 267Â Income taxes payable535Â 282Â Operating lease liabilities, current87Â 84Â Finance lease liabilities, currentâ€”Â 102Â Other749Â 728Â $4,820Â $4,297Â Â October 27,2024October 29,2023Â (In millions)Other LiabilitiesDefined and postretirement benefit plans$142Â $126Â Operating lease liabilities, non-current259Â 252Â Other409Â 336Â $810Â $714Â Government AssistanceCapital expenditure related incentives reduced gross property, plant and equipment, net by $479Â million as of OctoberÂ 27, 2024. Contra-depreciation expense was not material in fiscal 2024. Operating incentives recognized as a reduction to research, development and engineering expense was $38Â million in fiscal 2024. Capital expenditure related incentives reduced our income taxes payable by $170Â million as of OctoberÂ 27, 2024, of which $159Â million is in accounts payable and accrued expenses and $11Â million is in deferred income taxes and other assets, in our Consolidated Balance Sheets.71Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Note 9Â Â Â Â Â Â Â Borrowing Facilities and DebtRevolving Credit FacilitiesIn February 2020, we entered into a five-year $1.5Â billion committed unsecured revolving credit agreement (Revolving Credit Agreement) with a group of banks. The Revolving Credit Agreement includes a provision under which we may request an increase in the amount of the facility of up to $500Â million for a total commitment of no more than $2.0Â billion, subject to the receipt of commitments from one or more lenders for any such increase and other customary conditions. The Revolving Credit Agreement is scheduled to expire in February 2026, unless extended as permitted under the Revolving Credit Agreement. The Revolving Credit Agreement provides for borrowings that bear interest for each advance at one of two rates selected by us, plus an applicable margin, which varies according to our public debt credit ratings.No amounts were outstanding under the Revolving Credit Agreement as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023. In addition, we have revolving credit facilities with Japanese banks pursuant to which we may borrow up to approximately $52Â million in aggregate at any time. Our ability to borrow under these facilities is subject to bank approval at the time of the borrowing request, and any advances will be at rates indexed to the banksâ€™ prime reference rate denominated in Japanese yen. As of OctoberÂ 27, 2024 and OctoberÂ 29, 2023, no amounts were outstanding under these revolving credit facilities. Short-term Commercial PaperWe have a short-term commercial paper program under which we may issue unsecured commercial paper notes of up to a total amount of $1.5Â billion. The proceeds from the issuances of commercial paper are used for general corporate purposes. At OctoberÂ 27, 2024, we had $100 million of commercial paper notes outstanding and recorded as short-term debt with a weighted-average interest rate of 5.06% and maturities of 63 days, and as of OctoberÂ 29, 2023, we had $100Â million of commercial paper notes outstanding and recorded as short-term debt with a weighted-average interest rate of 5.39% and maturities of 90 days.Senior Unsecured NotesIn June 2024, we issued $700Â million aggregate principal amount of 4.800% senior unsecured notes due 2029 in a registered public offering. The proceeds from the issuance of the senior unsecured notes are intended for general corporate purposes.Debt outstanding as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023 was as follows:Â Principal AmountOctober 27,2024October 29,2023EffectiveInterestÂ RateInterestPayÂ DatesÂ (In millions)Â Â Current portion of long-term debt: 3.900% Senior Notes Due 2025$700Â $â€”Â 3.944%April 1, October 1Total current portion of long-term debt$700Â $â€”Â Long-term debt:3.900% Senior Notes Due 2025$â€”Â $700Â 3.944%April 1, October 13.300% Senior Notes Due 20271,200Â 1,200Â 3.342%April 1, October 14.800% Senior Notes Due 2029700Â â€”Â 4.844%June 15, December 151.750% Senior Notes Due 2030750Â 750Â 1.792%June 1, December 15.100% Senior Notes Due 2035500Â 500Â 5.127%April 1, October 15.850% Senior Notes Due 2041600Â 600Â 5.879%June 15, December 154.350% Senior Notes Due 20471,000Â 1,000Â 4.361%April 1, October 12.750% Senior Notes Due 2050750Â 750Â 2.773%June 1, December 15,500Â 5,500Â Total unamortized discount(10)(11)Total unamortized debt issuance costs(30)(28)Total long-term debt$5,460Â $5,461Â 72Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Note 10Â Â Â Â Â Â Â Stockholdersâ€™ Equity, Comprehensive Income and Share-Based CompensationAccumulated Other Comprehensive Income (Loss)Changes in the components of accumulated other comprehensive income (loss) (AOCI), net of tax, were as follows:Unrealized Gain (Loss) on Investments, NetUnrealized Gain (Loss) on Derivative Instruments Qualifying as Cash Flow HedgesDefined and Postretirement Benefit PlansCumulative Translation AdjustmentsTotal(In millions)Balance at OctoberÂ 31, 2021(1)(103)(169)13Â (260)Other comprehensive income (loss) before reclassifications(60)100Â 71Â â€”Â 111Â Amounts reclassified out of AOCI(14)(49)10Â â€”Â (53)Other comprehensive income (loss), net of tax(74)51Â 81Â â€”Â 58Â Balance at OctoberÂ 30, 2022(75)(52)(88)13Â $(202)Other comprehensive income (loss) before reclassifications16Â (44)17Â â€”Â (11)Amounts reclassified out of AOCI9Â (22)9Â â€”Â (4)Other comprehensive income, net of tax25Â (66)26Â â€”Â (15)Balance at OctoberÂ 29, 2023(50)(118)(62)13Â $(217)Other comprehensive income (loss) before reclassifications34Â 28Â â€”Â â€”Â 62Â Amounts reclassified out of AOCI9Â 3Â (25)â€”Â (13)Other comprehensive income (loss), net of tax43Â 31Â (25)â€”Â 49Â Balance at OctoberÂ 27, 2024(7)(87)(87)13Â $(168)The tax effects on net income of amounts reclassified from AOCI were not material for the fiscal 2024, 2023 and 2022.In March 2023, our Board of Directors approved a common stock repurchase program authorizing $10.0Â billion in repurchases, which supplemented the previously existing $6.0 billion authorization approved in March 2022. At OctoberÂ 27, 2024, approximately $8.9 billion remained available for future stock repurchases under the repurchase program.The following table summarizes our stock repurchases, including excise tax, for each fiscal year:202420232022Â (In millions, except per share amounts)Shares of common stock repurchased20Â 18Â 54Â Cost of stock repurchased (including excise tax)*$3,851Â $2,202Â $6,103Â Average price paid per share (including excise tax)*$190.27Â $123.63Â $113.84Â Cost of stock repurchased (excluding excise tax)$3,823Â $2,189Â $6,103Â Average price paid per share (excluding excise tax)$188.87Â $122.89Â $113.84Â (*) Effective January 1, 2023, stock repurchase amounts include the 1% surcharge on stock repurchases under the Inflation Reduction Actâ€™s excise tax. This excise tax is recorded in equity and reduces the amount available under the repurchase program, as applicable.We record treasury stock purchases under the cost method using the first-in, first-out (FIFO) method. Upon reissuance of treasury stock, amounts in excess of the acquisition cost are credited to additional paid in capital. If we reissue treasury stock at an amount below our acquisition cost and additional paid in capital associated with prior treasury stock transactions is insufficient to cover the difference between the acquisition cost and the reissue price, this difference is recorded against retained earnings.73Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)DividendsDuring fiscal 2024, our Board of Directors declared one quarterly cash dividend of $0.32 per share and three quarterly cash dividends of $0.40 per share. During fiscal 2023, our Board of Directors declared one quarterly cash dividend of $0.26 per share and three quarterly cash dividends of $0.32 per share. During fiscal 2022, our Board of Directors declared one quarterly cash dividend of $0.24 per share and three quarterly cash dividends of $0.26Â per share. Dividends paid during fiscal 2024, 2023 and 2022 amounted to $1.2 billion, $975 million and $873 million, respectively. We currently anticipate that cash dividends will continue to be paid on a quarterly basis, although the declaration of any future cash dividend is at the discretion of the Board of Directors and will depend on our financial condition, results of operations, capital requirements, business conditions and other factors, as well as a determination by the Board of Directors that cash dividends are in the best interests of our stockholders.Share-Based CompensationWe have a stockholder-approved equity plan, the Employee Stock Incentive Plan (ESIP), which permits grants to employees of share-based awards, including stock options, stock appreciation rights, restricted stock, restricted stock units, performance share units and performance units. In addition, the plan provides for the automatic grant of restricted stock units to non-employee directors and permits the grant of share-based awards to non-employee directors and consultants. Share-based awards made under the plan may be subject to accelerated vesting under certain circumstances in the event of a change in control. In addition, we have an Omnibus Employeesâ€™ Stock Purchase Plan (ESPP), which enables eligible employees to purchase our common stock.We recognized share-based compensation expense related to equity awards and ESPP shares. The effect of share-based compensation on the results of operations and the related tax benefits for each fiscal year were as follows:Â 202420232022Â (In millions)Cost of products sold$134Â $180Â $147Â Research, development, and engineering219Â 179Â 151Â Marketing and selling72Â 55Â 49Â General and administrative152Â 76Â 66Â Total share-based compensation$577Â $490Â $413Â Income tax benefits recognized$73Â $63Â $51Â The cost associated with share-based awards is typically recognized over the awardsâ€™ service period for the entire award on a straight-line basis, adjusting for estimated forfeitures. However, in the case of share-based awards granted to certain members of senior management that allow for partial accelerated vesting in the event of a qualifying retirement based on age and years of service, the compensation expense is recognized once the individual meets the conditions for a qualifying retirement. We calculate estimated forfeiture rate on an annual basis, based on historical forfeiture activities. The cost associated with performance-based equity awards, which include performance and/or market goals, is recognized for each tranche over the service period. The cost of the portion of performance-based equity awards subject to performance goals is recognized based on an assessment of the likelihood that the applicable performance goals will be achieved, and the cost of the portion of performance-based equity awards subject to market goals is recognized based on the assumption of 100% achievement of the goal.At OctoberÂ 27, 2024, we had $911 million in total unrecognized compensation expense, net of estimated forfeitures, related to grants of share-based awards under the ESIP and shares issued under the ESPP, which will be recognized over a weighted average period of 2.4 years. At OctoberÂ 27, 2024, there were 21 million shares available for grant of share-based awards under the ESIP, and an additional 10 million shares available for issuance under the ESPP.Stock OptionsStock options are rights to purchase, at future dates, shares of our common stock. There were no stock options granted during fiscal 2024, 2023 and 2022 and no outstanding stock options at the end of fiscal 2024.74Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Restricted Stock Units, Restricted Stock, Performance Share Units and Performance UnitsRestricted stock units are converted into shares of our common stock upon vesting on a one-for-one basis. Restricted stock has the same rights as other issued and outstanding shares of our common stock except these shares generally have no right to dividends and are held in escrow until the award vests. Performance share units and performance units are awards that result in a payment to a grantee, generally in shares of our common stock on a one-for-one basis, if performance goals, market goals and/or other vesting criteria are achieved or the awards otherwise vest. Restricted stock units, restricted stock, performance share units and performance units typically vest over three to four years and vesting is usually subject to the granteeâ€™s continued service with us and, in some cases, achievement of specified performance and/or market goals. The compensation expense related to share-based awards subject solely to time-based vesting requirements (Service-Based Awards) is determined using the market value of our common stock, adjusted to exclude the present value of expected dividends during the vesting period. The market value of our common stock is calculated using the closing price of our common stock on the date of grant, or if the grant date is not a trading date, the average of the closing prices on the trading dates immediately preceding and following the grant date.During fiscal 2024, 2023 and 2022, certain members of senior management were granted awards that are subject to the achievement of certain levels of specified performance and market goals, in addition to time-based vesting requirements (Performance Based-

Awards). These Performance-Based Awards are subject to the achievement of targeted levels of adjusted operating margin and targeted levels of total shareholder return (TSR) relative to the TSR of the companies in the Standard & Poorâ€™s 500 Index. Each of these two metrics will be weighted 50% and will be measured over a three-year period. The number of shares that may vest in full after three years ranges from 0% to 200% of the target amount. The awards become eligible to vest only if the goals are achieved and will vest only if the grantee remains employed by us through each applicable vesting date, subject to a qualifying retirement based on age and years of service. The awards provide for a partial vesting based on actual performance at the conclusion of the three-year performance period in the event of a qualifying retirement.The fair value of the portion of the Performance-Based Awards subject to targeted levels of relative TSR is estimated on the date of grant using a Monte Carlo simulation model. Compensation expense is recognized based upon the assumption of 100% achievement of the TSR goal and will not be reversed even if the threshold level of TSR is never achieved, and is reflected over the service period and reduced for estimated forfeitures.The fair value of the portion of the Performance-Based Awards subject to targeted levels of adjusted operating margin is estimated on the date of grant based on the market value of our common stock, adjusted to exclude the present value of expected dividends during the vesting period. The market value of our common stock is calculated using the closing price of our common stock on the date of the grant or, if the grant date is not a trading date, the average of the closing prices on the trading dates immediately preceding and following the grant date. If the performance goals are not met as of the end of the performance period, no compensation expense is recognized and any previously recognized compensation expense is reversed. The expected cost is based on the portion of the awards that is probable to vest and is reflected over the service period and reduced for estimated forfeitures.75Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)The following tables summarize the assumptions used for the valuation of share-based awards for the periods presented:202420232022Service-Based Awards and the portion of Performance-Based Awards subject to performance goals:Grant date market value$148.39 - $241.26$104.22 - $143.97$74.62 - $157.29Risk-free interest rate3.48% - 5.37%3.64% - 5.48%0.16% - 4.48%Dividend yield0.72% - 2.62%0.70% - 3.59%0.47% - 3.83%Fair value$144.79 - $237.94 Â $102.09 - $141.33 Â $72.24 - $154.88 202420232022Portion of Performance-Based Awards subject to market goals:Grant date market value$148.39 - $173.89$109.37$146.49 Risk-free interest rate4.24% - 4.30%4.10%0.87% Dividend yield0.74% - 0.86%0.95%0.66%Expected volatility40.99% - 43.35%52.38%47.35% Fair value$195.32 - $249.37$162.72$210.69 A summary of the changes in restricted stock units, restricted stock, performance share units and performance units outstanding under our equity compensation plans during fiscal 2024 is presented below:SharesWeightedAverageGrantÂ DateFair ValueWeightedAverageRemainingContractualÂ TermAggregate Intrinsic Value Â (In millions, except per share amounts)Non-vested restricted stock units, restricted stock, performance share units and performance units at OctoberÂ 29, 202312Â $106.24Â Granted4Â $149.20Â Vested(5)$97.50Â Canceled(1)$120.91Â Non-vested restricted stock units, restricted stock, performance share units and performance units at OctoberÂ 27, 202410Â $129.31Â 2.3 years$1,931Â Non-vested restricted stock units, restricted stock, performance share units and performance units expected to vest10Â $130.71Â 2.2 years$1,903Â At OctoberÂ 27, 2024, 0.7 million additional performance-based awards could be earned based upon achievement of certain levels of specified performance and/or market goals.A summary of the weighted-average grant date fair value per share of the granted restricted stock units, restricted stock, performance share units and performance units and total fair value vested awards for indicated periods is presented below:202420232022(In millions, except per share amounts)Weighted average grant date fair value per share of awards granted$149.20Â $104.00Â $132.44Â Total fair value of vested awards$527Â $367Â $285Â 76Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Employee Stock Purchase PlansUnder the ESPP, substantially all employees may purchase our common stock through payroll deductions at a price equal to 85 percent of the lower of the fair market value of our common stock at the beginning or end of each 6-month purchase period, subject to certain limits. Our purchasing cycles began in March and September of each of fiscal 2024, 2023 and 2022. We issued 2 million shares in fiscal 2024 at a weighted average price of $147.38 per share, 2 million shares in fiscal 2023 at a weighted average price of $87.75 per share and 2 million shares in fiscal 2022 at a weighted average price of $93.30 per share, under the ESPP. Compensation expense is calculated using the fair value of the employeesâ€™ purchase rights under the Black-Scholes model. Underlying assumptions used in the model are outlined in the following table:Â 202420232022ESPP:Dividend yield0.82Â %0.98Â %0.97Â %Expected volatility40.1Â %39.4Â %46.8Â %Risk-free interest rate5.03Â %5.29Â %2.24Â %Expected life (in years)0.50.50.5Weighted average estimated fair value$52.31$35.31$30.23Note 11Â Â Â Â Â Â Employee Benefit PlansEmployee Bonus PlansWe have various employee bonus plans. A discretionary bonus plan provides for the distribution of a percentage of pre-tax income to our employees who are not participants in other performance-based incentive plans, up to a maximum percentage of eligible compensation. Other plans provide for bonuses to our executives and other key contributors based on the achievement of profitability and/or other specified performance criteria. Charges under these plans for fiscal 2024, 2023 and 2022 were $837 million, $702 million and $623 million, respectively.Defined Benefit Pension Plans of Foreign Subsidiaries and Other Postretirement BenefitsSeveral of our foreign subsidiaries have defined benefit pension plans covering substantially all of their eligible employees. Benefits under these plans are typically based on years of service and final average compensation levels. The plans are managed in accordance with applicable local statutes and practices. We deposit funds for certain of these plans with insurance companies, pension trustees, government-managed accounts, and/or accrue the expense for the unfunded portion of the benefit obligation on our Consolidated Financial Statements. Our practice is to fund the various pension plans in amounts sufficient to meet the minimum requirements as established by applicable local governmental oversight and taxing authorities. Depending on the design of the plan, local custom and market circumstances, the liabilities of a plan may exceed the qualified plan assets. The differences between the aggregate projected benefit obligations and aggregate plan assets of these plans have been recorded as liabilities by us and are included in other liabilities and accrued expenses in the Consolidated Balance Sheets. The net funded status and periodic benefit cost were not material for fiscal 2024, 2023 and 2022.Our investment strategy for our defined benefit plans is to invest plan assets in a prudent manner, maintaining well-diversified portfolios with the long-term objective of meeting the obligations of the plans as they come due. Asset allocation decisions are typically made by plan fiduciaries with input from our international pension committee. Our asset allocation strategy incorporates a sufficient equity exposure in order for the plans to benefit from the expected better long-term performance of equities relative to the plansâ€™ liabilities. We retain investment managers, where appropriate, to manage the assets of the plans. Performance of investment managers is monitored by plan fiduciaries with the assistance of local investment consultants. The investment managers make investment decisions within the guidelines set forth by plan fiduciaries. Risk management practices include diversification across asset classes and investment styles, and periodic rebalancing toward target asset allocation ranges. Investment managers may use derivative instruments for efficient portfolio management purposes.Asset return assumptions are derived based on actuarial and statistical methodologies, from analysis of long-term historical data relevant to the country in which each plan is in effect and the investments applicable to the corresponding plan. The discount rate for each plan was derived by reference to appropriate benchmark yields on high quality corporate bonds, allowing for the approximate duration of both plan obligations and the relevant benchmark yields.Â 77Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Executive Deferred Compensation PlansWe sponsor two unfunded deferred compensation plans, the Executive Deferred Compensation Plan (Predecessor EDCP) and the 2016 Deferred Compensation Plan (2016 DCP) (formerly known as the 2005 Executive Deferred Compensation Plan), under which certain employees may elect to defer a portion of their following yearâ€™s eligible earnings. The Predecessor EDCP was frozen as of DecemberÂ 31, 2004 such that no new deferrals could be made under the plan after that date and the plan would qualify for â€œgrandfatherâ€ relief under SectionÂ 409A of the Code. The Predecessor EDCP participant accounts continue to be maintained under the plan and credited with deemed interest. The 2016 DCP was originally implemented by us effective as of JanuaryÂ 1, 2005, and amended and restated as of October 12, 2015, and is intended to comply with the requirements of SectionÂ 409A of the Code. In addition, we also sponsor a non-qualified deferred compensation plan as a result of a previous acquisition. Amounts payable for all plans, including accrued deemed interest, totaled $357 million and $245 million at OctoberÂ 27, 2024 and OctoberÂ 29, 2023, respectively, which were included in other liabilities in the Consolidated Balance Sheets.Note 12Â Â Â Â Â Income TaxesThe components of income before income taxes for each fiscal year were as follows:Â 202420232022Â (In millions)U.S.$833Â $1,234Â $1,171Â Foreign7,319Â 6,482Â 6,428Â Total$8,152Â $7,716Â $7,599Â The components of the provision for income taxes for each fiscal year were as follows:202420232022Â (In millions)Current:U.S.$1,254Â $708Â $590Â Foreign366Â 456Â 275Â State33Â 54Â 14Â 1,653Â 1,218Â 879Â Deferred:U.S.(697)(255)(62)Foreign30Â (61)265Â State(11)(42)(8)(678)(358)195Â Total$975Â $860Â $1,074Â A reconciliation between the statutory U.S.Â federal income tax rate and our actual effective income tax rate for each fiscal year is presented below:Â 202420232022Tax provision at U.S. statutory rate21.0Â %21.0Â %21.0Â %Effect of foreign operations taxed at various rates(7.6)(8.2)(4.4)Changes in prior yearsâ€™ unrecognized tax benefitsâ€”Â (0.2)(0.9)Resolutions of prior yearsâ€™ income tax filings(0.1)(0.1)(0.2)Research and other tax credits(1.4)(1.6)(1.0)Other0.1Â 0.2Â (0.4)Total12.0Â %11.1Â %14.1Â %78Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)Our provision for income taxes and effective tax rate are affected by the geographical composition of pre-tax income which includes jurisdictions with differing tax rates, conditional reduced tax rates and other income tax incentives. It is also affected by events that vary from period to period, such as changes in income tax laws and the resolution of prior yearsâ€™ income tax filings.Our effective tax rate for fiscal 2024 was higher than fiscal 2023 primarily due to lower tax credits in fiscal 2024, partially offset by higher proportion of pre-tax income in lower tax jurisdictions in fiscal 2024. Our effective tax rate for fiscal 2023 was lower than fiscal 2022 primarily due to a reduction of deferred tax assets that occurred in fiscal 2022, related to a new tax incentive in Singapore.In the reconciliation between the statutory U.S. federal income tax rate and the effective income tax rate, the effect of foreign operations taxed at various rates represents the difference between an income tax provision at the U.S. federal statutory income tax rate and the recorded income tax provision, with the difference expressed as a percentage of worldwide income before income taxes. This effect is substantially related to the tax effect of pre-tax income in jurisdictions with lower statutory tax rates. The foreign operations with the most significant effective tax rate impact are in Singapore. The statutory tax rate for fiscal 2024 for Singapore is 17%. We have been granted conditional reduced tax rates that expire beginning in fiscal 2025, excluding potential renewal and subject to certain conditions with which we expect to comply. The tax benefits arising from these tax rates were $393 million or $0.47 per diluted share and $369 million or $0.44 per diluted share and $232Â million or $0.26 per diluted share for fiscal 2024, 2023 and 2022, respectively.Deferred tax assets and liabilities are recognized for the estimated future tax effects of temporary differences between the book and tax bases of assets and liabilities. Deferred tax assets are also recognized for net operating loss and tax credit carryovers. Deferred tax assets are offset by a valuation allowance to the extent it is more likely than not that they are not expected to be realized. The components of deferred income tax assets and liabilities were as follows:Â October 27,2024October 29,2023Â (In millions)Deferred tax assets:Corporate Alternative Minimum Tax$410Â $â€”Â Capitalized R&D expenses217Â 83Â Allowance for doubtful accounts4Â 4Â Inventory reserves and basis difference127Â 125Â Installation and warranty reserves70Â 35Â Intangible assets977Â 1,031Â Accrued liabilities24Â 19Â Deferred revenue72Â 72Â Tax credits592Â 536Â Deferred compensation261Â 217Â Share-based compensation44Â 50Â Property, plant and equipment101Â 9Â Lease liability72Â 98Â Other79Â 96Â Gross deferred tax assets3,050Â 2,375Â Valuation allowance(569)(530)Total deferred tax assets2,481Â 1,845Â Deferred tax liabilities:Right of use assets(76)(103)Undistributed foreign earnings(23)(23)Total deferred tax liabilities(99)(126)Net deferred tax assets$2,382Â $1,719Â 79Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)A valuation allowance is recorded to reflect the estimated amount of net deferred tax assets that may not be realized. Changes in the valuation allowance in each fiscal year were as follows:202420232022(In millions)Beginning balance$530Â $460Â $361Â Increases39Â 70Â 99Â Ending balance$569Â $530Â $460Â At OctoberÂ 27, 2024, we have state research and development tax credit carryforwards of $592 million, including $553 million of credits that are carried over until exhausted and $35 million that are carried over for 15 years and begin to expire in fiscal 2034. It is more likely than not that all tax credit carryforwards, net of valuation allowance, will be utilized.We maintain liabilities for uncertain tax positions. These liabilities involve considerable judgment and estimation and are continuously monitored based on the best information available. Gross unrecognized tax benefits are classified as non-current income taxes payable or as a reduction in deferred tax assets. A reconciliation of the beginning and ending balances of gross unrecognized tax benefits in each fiscal year is as follows:Â 202420232022Â (In millions)Beginning balance of gross unrecognized tax benefits$510Â $498Â $537Â Settlements with tax authoritiesâ€”Â â€”Â (25)Increases in tax positions for current year25Â 28Â 26Â Increases in tax positions for prior years13Â â€”Â 28Â Decreases in tax positions for prior years(4)(16)(68)Ending balance of gross unrecognized tax benefits$544Â $510Â $498Â Tax expense for interest and penalties on unrecognized tax benefits for fiscal 2024, 2023 and 2022 was $45 million, $34 million and $14 million, respectively.Â The income tax liability for interest and penalties for fiscal 2024, 2023 and 2022 was $181 million, $136 million and $103 million, respectively, and was classified as non-current income taxes payable.Included in the balance of unrecognized tax benefits for fiscal 2024, 2023 and 2022 are $397 million, $386 million, and $388 million, respectively, of tax benefits that, if recognized, would affect the effective tax rate.Our tax returns remain subject to examination by taxing authorities. These include U.S. returns for fiscal 2015 and later years, and foreign tax returns for fiscal 2011 and later years.The timing of the resolution of income tax examinations, as well as the amounts and timing of various tax payments that may be part of the settlement process, is highly uncertain. This could cause fluctuations in our financial condition and results of operations. We continue to have ongoing negotiations with various taxing authorities throughout the year, and evaluate all domestic and foreign tax audit issues in the aggregate, along with the expiration of applicable statutes of limitations.We believe it is reasonably possible that the amount of gross unrecognized tax benefits related to foreign operations could be reduced by approximately $200Â million in the next 12 months as a result of the resolution of tax matters or the lapse of statute of limitations. Note 13Â Â Â Â Â Guarantees, Commitments and ContingenciesÂ Â Â Â Â GuaranteesIn the ordinary course of business, we provide standby letters of credit or other guarantee instruments to third parties as required for certain transactions initiated by either us or our subsidiaries. As of OctoberÂ 27, 2024, the maximum potential amount of future payments that we could be required to make under these guarantee agreements was approximately $284 million. We have not recorded any liability in connection with these guarantee agreements beyond that required to appropriately account for the underlying transaction being guaranteed. We do not believe, based on historical experience and information currently available, that it is probable that any amounts will be required to be paid under these guarantee agreements.80Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€” (Continued)We also have agreements with various banks to facilitate subsidiary banking operations worldwide, including overdraft arrangements, issuance of bank guarantees, and letters of credit. As of OctoberÂ 27, 2024, we have provided parent guarantees to banks for approximately $292 million to cover these arrangements.Legal MattersFrom time to time, we receive notification from third parties, including customers and suppliers, seeking indemnification, litigation support, payment of money or other actions by us in connection with claims made against them. In addition, from time to time, we receive notification from third parties claiming that we may be or are infringing or misusing their intellectual property or other rights. We also are subject to various legal proceedings, government investigations or inquiries, and claims, both asserted and unasserted, that arise in the ordinary course of business. These matters are subject to uncertainties, and we cannot predict the outcome of these matters, or governmental inquiries or proceedings that may occur. Although the outcome of the above-described matters, claims and proceedings cannot be predicted with certainty, we do not believe at this time that any of the above-described matters will have a material effect on our consolidated financial condition or results of operations. Since 2022, we have received multiple subpoenas from government authorities requesting information relating to certain China customer shipments and export controls compliance, including from the U.S. Department of Justice, the U.S. Commerce Department Bureau of Industry and Security, and the U.S. Securities and Exchange Commission. We also have received subpoenas from the U.S. Department of Justice requesting information related to certain federal award applications and information submitted to the federal government. We are cooperating fully with the U.S. government in these matters. We have continued to receive related subpoenas, as well as requests for information, and may in the future receive additional related subpoenas and requests for information from such or other government authorities. Any such matters are subject to

uncertainties, and we cannot predict the outcome, nor reasonably estimate a range of loss or penalties, if any, relating to these matters. Note 14Â Â Â Â Â Â Industry Segment OperationsÂ Â Â Â Our three reportable segments are: Semiconductor Systems, Applied Global Services (AGS), and Display. As defined under the accounting literature, our chief operating decision-maker has been identified as the President and Chief Executive Officer, who reviews operating results to make decisions about allocating resources and assessing performance for the entire company. Segment information is presented based upon our management organization structure as of OctoberÂ 27, 2024 and the distinctive nature of each segment. Future changes to this internal financial structure may result in changes to our reportable segments.The Semiconductor Systems reportable segment includes semiconductor capital equipment for etch, rapid thermal processing, deposition, chemical mechanical planarization, metrology and inspection, wafer packaging, and ion implantation.The AGS segment provides integrated solutions to optimize equipment and fab performance and productivity, including spares, upgrades, services, 200mm and other equipment and factory automation software for semiconductor, display and other products.The Display segment includes products for manufacturing liquid crystal displays (LCDs), organic light-emitting diodes (OLEDs), equipment upgrades and other display technologies for TVs, monitors, laptops, personal computers, smart phones, other consumer-oriented devices and solar energy cells.Each operating segment is separately managed and has separate financial results that are reviewed by our chief operating decision-maker. Each reportable segment contains closely related products that are unique to the particular segment. Segment operating income is determined based upon internal performance measures used by our chief operating decision-maker. The chief operating decision-maker does not evaluate operating segments using total asset information. We derive the segment results directly from our internal management reporting system. Effective in the first quarter of fiscal 2024, management began including share-based compensation expense in the evaluation of reportable segments' performance. Prior-year numbers have been recast to conform to the current-year presentation. The accounting policies we use to derive reportable segment results are substantially the same as those used for external reporting purposes. Management measures the performance of each reportable segment based upon several metrics including orders, net revenue and operating income. Management uses these results to evaluate the performance of, and to assign resources to, each of the reportable segments. 81Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)The Corporate and Other category includes revenues and costs of products from other products, as well as certain operating expenses that are not allocated to our reportable segments and are managed separately at the corporate level. These operating expenses include costs related to certain management, finance, legal, human resources, and research, development and engineering functions provided at the corporate level; and unabsorbed information technology and occupancy. In addition, we do not allocate to our reportable segments severance, asset impairment and any associated charges related to restructuring actions, unless these actions pertain to a specific reportable segment. Segment operating income also excludes interest income/expense and other financial charges and income taxes. Management does not consider the unallocated costs in measuring the performance of the reportable segments.Information for each reportable segment for and as of the end of each fiscal year were as follows:Â Net revenueOperatingIncome (Loss)Depreciation/AmortizationCapitalExpendituresAccounts ReceivableInventoriesÂ (In millions)2024:Semiconductor Systems $19,911Â $6,981Â $168Â $425Â $3,816Â $2,988Â Applied Global Services6,225Â 1,812Â 22Â 35Â 1,297Â 2,306Â Display885Â 51Â 12Â 29Â 197Â 113Â Corporate and Other155Â (977)190Â 701Â (76)14Â Total$27,176Â $7,867Â $392Â $1,190Â $5,234Â $5,421Â 2023:Semiconductor Systems$19,698Â $6,879Â $235Â $381Â $3,943Â $3,433Â Applied Global Services5,732Â 1,529Â 31Â 39Â 1,111Â 2,073Â Display868Â 114Â 19Â 13Â 184Â 200Â Corporate and Other219Â (868)230Â 673Â (73)19Â Total$26,517Â $7,654Â $515Â $1,106Â $5,165Â $5,725Â 2022:Semiconductor Systems$18,797Â $6,790Â $203Â $249Â $4,924Â $3,995Â Applied Global Services5,543Â 1,555Â 31Â 38Â 997Â 1,788Â Display1,331Â 243Â 31Â 30Â 148Â 129Â Corporate and Other114Â (800)179Â 470Â (1)20Â Total$25,785Â $7,788Â $444Â $787Â $6,068Â $5,932Â Semiconductor Systems and Display revenues are recognized at a point in time. AGS revenue is recognized at a point in time for tangible goods such as spare parts and equipment, and over time for service agreements. The majority of revenue recognized over time is recognized within 12 months of the contract inception.Details of goodwill by reportable segment as of OctoberÂ 27, 2024 and OctoberÂ 29, 2023 were as follows:Â October 27, 2024October 29, 2023Â (In millions)Goodwill by reportable segmentSemiconductor Systems$2,460Â $2,460Â Applied Global Services1,032Â 1,032Â Display199Â 199Â Corporate and Other41Â 41Â $3,732Â $3,732Â 82Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)Net revenue for Semiconductor Systems by market for the periods indicated were as follows:202420232022Foundry, logic and other68Â %77Â %66Â %Dynamic random-access memory (DRAM)28Â %17Â %19Â %Flash memory4Â %6Â %15Â %100Â %100Â %100Â %The reconciling items included in Corporate and Other were as follows:202420232022Â (In millions)Unallocated Net revenue$155Â $219Â $114Â Unallocated cost of products sold and expenses(1,132)(1,087)(918)Severance and related chargesâ€"Â â€"Â 4Â Total(977)(868)$(800)For geographical reporting, revenue by geographic location is determined by the location of customersâ€™ facilities to which products were shipped and services were performed. Long-lived assets consist primarily of property, plant and equipment and right-of-use assets and are attributed to the geographic location in which they are located. Net revenue and long-lived assets by geographic region for and as of each fiscal year were as follows:Â 202420232022Â (In millions)Net revenue:United States$3,818Â $4,006Â $3,104Â China10,117Â 7,247Â 7,254Â Korea4,493Â 4,609Â 4,395Â Taiwan4,010Â 5,670Â 6,262Â Japan2,154Â 2,075Â 2,012Â Europe1,443Â 2,152Â 1,674Â Southeast Asia1,141Â 758Â 1,084Â Total outside United States23,358Â 22,511Â 22,681Â Consolidated total$27,176Â $26,517Â $25,785Â October 27,2024October 29,2023Â (In millions)Long-lived assets:United States$3,759Â $3,239Â China3Â 4Â Korea9Â 11Â Taiwan59Â 59Â Japan7Â 7Â Europe113Â 110Â Southeast Asia5Â 6Â Total outside United States196Â 197Â Consolidated total$3,955Â $3,436Â 83Table of ContentsAPPLIED MATERIALS, INC.NOTESÂ TO CONSOLIDATED FINANCIAL STATEMENTS â€" (Continued)The following customers accounted for at least 10 percent of our Net revenue in each fiscal year, which were for products and services in multiple reportable segments:202420232022Samsung Electronics Co., Ltd.12Â %15Â %12Â %Taiwan Semiconductor Manufacturing Company Limited11Â %19Â %20Â %Intel Corporation**10Â %_____*Less than 10%84Table of ContentsINDEX TO EXHIBITSThese Exhibits are numbered in accordance with the Exhibit Table of Item 601 of Regulation S-K:Â Incorporated by ReferenceExhibitÂ No.DescriptionFormFile No.Exhibit No.Filing Date3.1Amended and Restated Certificate of Incorporation of Applied Materials, Inc., as amended and restated through MarchÂ 16, 20208-K000-069203.13/16/20203.2Amended and Restated Bylaws of Applied Materials, Inc., as amended and restated through December 8, 20238-K000-069203.212/13/20234.1Indenture, dated June 8, 2011, by and between Applied Materials, Inc. and U.S. Bank National Association, as Trustee8-K000-069204.16/10/20114.2First Supplemental Indenture, dated June 8, 2011, by and between Applied Materials, Inc. and U.S. Bank National Association, as Trustee8-K000-069204.26/10/20114.3Second Supplemental Indenture, dated September 24, 2015, by and between Applied Materials, Inc. and U.S. Bank National Association, as Trustee8-K000-069204.19/24/20154.4Third Supplemental Indenture, dated March 31, 2017, by and between Applied Materials, Inc. and U.S. Bank National Association, as Trustee8-K000-069204.13/31/20174.5Fourth Supplemental Indenture dated May 29, 2020, by and between Applied Materials, Inc. and U.S. Bank National Association8-K000-069204.15/29/20204.6Description of Registrantâ€™s Securities Registered Under Section 12 of the Securities Exchange Act of 193410-K000-069204.612/15/20234.7Indenture, dated as of June 11, 2024, by and between Applied Materials, Inc. and The Bank of New York Mellon Trust Company, N.A.8-K000-069204.16/11/20244.8Supplemental Indenture, dated as of June 11, 2024, by and between Applied Materials, Inc. and The Bank of New York Mellon Trust Company, N.A.8-K000-069204.26/11/202410.1Form of Indemnification Agreement between Applied Materials, Inc. and Directors and certain officers10-Q000-0692010.15/23/202410.2Applied Materials, Inc. Profit Sharing Scheme (Ireland)S-8333-450114.11/27/199810.3*Applied Materials Inc. Employee Financial Assistance Plan, amended and restated as of December 18, 200810-Q000-0692010.583/3/200910.4Deed of Amendment to Applied Materials Profit Sharing Scheme, dated FebruaryÂ 7, 2006, to amend ClauseÂ 20 of the TrustÂ Deed thereunder10-K000-0692010.4812/12/200810.5Deed of Amendment to Applied Materials Profit Sharing Scheme, dated FebruaryÂ 7, 2006, to amend the definition of Eligible Employee in the First Schedule to the TrustÂ Deed thereunder.10-K000-0692010.4912/12/200810.6*Form of Restricted Stock Unit Agreement for use under the amended and restated Applied Materials, Inc. Employee Stock Incentive Plan10-Q000-0692010.35/27/202110.7*Form of Restricted Stock Unit Agreement for Nonemployee Directors for use under the amended and restated Applied Materials, Inc. Employee Stock Incentive Plan10-Q000-0692010.45/27/202110.8*Form of Restricted Stock Agreement for use under the amended and restated Applied Materials, Inc. Employee Stock Incentive Plan10-Q000-0692010.38/23/201210.9*Applied Materials, Inc. Omnibus Employeesâ€™ Stock Purchase Plan, effective September 1, 20218-K000-0692010.23/16/202110.10*Offer Letter, dated August 14, 2013, between Applied Materials, Inc. and Gary E. Dickerson10-Q000-0692010.28/22/201385Table of ContentsIncorporated by ReferenceExhibitÂ No.DescriptionFormFile No.Exhibit No.Filing Date10.11*Form of Non-Qualified Stock Option Agreement for Employees for use under the Applied Materials, Inc. Employee Stock Incentive Plan, as amended10-Q000-0692010.48/22/201310.12*Form of Performance Unit Agreement for use under the Applied Materials, Inc. Employee Stock Incentive Plan, as amended10-Q000-0692010.22/20/201410.13*Applied Materials, Inc. Applied Incentive Plan, amended and restated effective September 7, 202310-K000-0692010.1312/15/202310.14*Applied Materials, Inc. 2016 Deferred Compensation Plan, as amended and restated on January 1, 202110-K000-0692010.1512/16/202210.15*Applied Materials, Inc. Employee Stock Incentive Plan, as amended and restated effective March 11, 20218-K000-0692010.13/16/202110.16*Applied Materials, Inc. Senior Executive Bonus Plan, as amended and restated effective September 8, 202310-K000-0692010.1612/15/202310.17*Form of Performance Share Unit Agreement for members of the Executive Staff for use under the amended and restated Applied Materials, Inc. Employee Stock Incentive Plan10-K000-0692010.1712/15/202310.18*Form of Restricted Stock Unit Agreement for members of the Executive Staff for use under the amended and restated Applied Materials, Inc. Employee Stock Incentive Plan10-K000-0692010.1812/15/202310.19*Offer Letter, dated February 26, 2022, between Applied Materials, Inc. and Brice Hill10-Q000-0692010.15/26/202210.2Credit Agreement, dated as of February 21, 2020, among Applied Materials, Inc., JPMorgan Chase Bank, N.A., as administrative agent, and other lenders named therein8-K000-0692010.12/21/202010.21Amendment No. 1, dated as of July 27, 2022, to the Credit Agreement, dated as of February 21, 2020, among Applied Materials, Inc., JPMorgan Chase Bank, N.A., as administrative agent, and other lenders named therein10-Q000-0692010.18/25/202210.22Extension Agreement, dated as of February 21, 2023, to Credit Agreement, dated as of February 21, 2020 (as amended by that certain Amendment No. 1 to Credit Agreement, dated as of July 27, 2022), among Applied Materials, Inc., the lenders party thereto, and JPMorgan Chase Bank, N.A., as administrative agent10-Q000-0692010.12/23/202310.23Deed of Amendment, dated December 19, 2023, to the Trust Deed Constituting the Applied Materials Profit Sharing Scheme10-Q000-0692010.12/27/202419.1Insider Trading Policyâ€ 21Subsidiaries of Applied Materials, Inc.â€ 23Consent of Independent Registered Public Accounting Firm, KPMG LLPâ€ 24Power of Attorney (included on the signature page of this Annual Report on Form 10-K)â€ 31.1Certification of Chief Executive Officer Pursuant to SectionÂ 302 of the Sarbanes-Oxley Act of 2002â€ 31.2Certification of Chief Financial Officer Pursuant to SectionÂ 302 of the Sarbanes-Oxley Act of 2002â€ 32.1Certification Pursuant to 18Â U.S.C. SectionÂ 1350, as adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002â€¡32.2Certification Pursuant to 18Â U.S.C. SectionÂ 1350, as adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002â€¡97.1Applied Materials, Inc. Compensation Recovery Policy, adopted on September 7, 202310-K000-0692097.112/15/2023101.INSXBRL Instance Documentâ€¡86Table of ContentsIncorporated by ReferenceExhibitÂ No.DescriptionFormFile No.Exhibit No.Filing Date101.SCHXBRL Taxonomy Extension Schema Documentâ€¡101.CALXBRL Taxonomy Extension Calculation Linkbase Documentâ€¡101.DEFXBRL Taxonomy Extension Definition Linkbase Documentâ€¡101.LABXBRL Taxonomy Extension Label Linkbase Documentâ€¡101.PREXBRL Taxonomy Extension Presentation Linkbase Documentâ€¡104Cover Page Interactive Data File (formatted as inline XBRL)*Indicates a management contract or compensatory plan or arrangement, as required by ItemÂ 15(a)(3).â€ Filed herewith.â€¡Furnished herewith.87Table of ContentsSIGNATURESPursuant to the requirements of SectionÂ 13 or 15(d) 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.APPLIED MATERIALS, INC.By:/s/ GARY E. DICKERSONGary E. DickersonPresident, Chief Executive OfficerDated: DecemberÂ 13, 2024 POWER OF ATTORNEYKNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Gary E. Dickerson, Brice Hill and Teri Little, jointly and severally, his or herÂ attorneys-in-fact, each with the power of substitution, for him or her in any and all capacities, to sign any amendments to this Annual Report on FormÂ 10-K,Â and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each of saidÂ attorneys-in-fact,Â or his substitute or substitutes, may do or cause to be done by virtue hereof.******Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.Â Â TitleDate/s/ GARY E. DICKERSONPresident, Chief Executive Officer and Director (Principal Executive Officer)December 13, 2024Gary E. Dickerson/s/ BRICE HILLSenior Vice President, Chief Financial Officer(Principal Financial Officer)December 13, 2024Brice Hill/s/ ADAM SANDERSVice President,Corporate Controller and Chief Accounting Officer(Principal Accounting Officer)December 13, 2024Adam Sanders/S/Â Â THOMAS J. IANNOTTIThomas J. IannottiChairman of the BoardDecember 13, 2024/S/Â Â Â RANI BORKARRani BorkarDirectorDecember 13, 2024/S/Â Â JUDY BRUNERJudy BrunerDirectorDecember 13, 2024/S/Â Â XUN CHENXun ChenDirectorDecember 13, 2024/S/Â Â Â Â AART J. DE GEUSAart J. de GeusDirectorDecember 13, 2024/S/Â Â Â Â ALEXANDER A. KARSNERAlexander A. KarsnerDirectorDecember 13, 2024/S/Â Â Â Â KEVIN P. MARCHKevin P. MarchDirectorDecember 13, 2024/s/ YVONNE MCGILLYvonne McGillDirectorDecember 13, 2024/s/ SCOTT A. MCGREGORScott A. McGregorDirectorDecember 13, 202488 EX-19.1 2 ex191_amatq42024.htm EX-19.1 DocumentExhibit 19.1INSIDER TRADING POLICY PurposeÂ This Insider Trading Policy (â€œPolicyâ€) of Applied Materials, Inc. and its subsidiaries (collectively, â€œwe,â€ â€œour,â€ â€œAppliedâ€ or the â€œCompanyâ€) sets forth standards intended to prevent actual or apparent insider trading violations by directors, officers, employees and other individuals associated with Applied. The Board of Directors has adopted this Policy to promote compliance with U.S. federal, state and international laws and regulations governing transactions in the securities of Applied and other companies with whom we do business. It is our policy to comply with all applicable insider trading laws, rules and regulations, and listing standards.ApplicabilityÂ This Policy applies to all directors, officers and other employees of Applied, and to consultants and contractors of Applied who may have access to material non-public information in the course of performing services for the Company (referred to as â€œyou,â€ â€œyourâ€ or collectively as â€œApplied Personnelâ€). This Policy also applies to family members and persons with whom you share a household, whose transactions in securities you influence, direct or control, and to any trust, partnership, corporation, foundation or other entity over which you have investment control (â€œRelated Personsâ€). You are responsible for making sure that your Related Persons comply with this Policy. For purposes of this Policy, your â€œfamily membersâ€ include any spouse, child, stepchild, grandchild, parent, stepparent, grandparent, sibling, mother or father-in-law, son or daughter-in-law, or brother or sister-in-law (as well as adoptive relationships), whether or not they share the same address as you, and any other family members who are financially dependent on you.Directors and executive officers of Applied who are subject to SectionÂ 16 of the Securities Exchange Act of 1934 (â€œSection 16 Officers and Directorsâ€), and other designated employees with early access to the Companyâ€™s quarterly financial results or who may regularly come in contact with material non-public information about the Company in the course of performing their job responsibilities, must also comply with blackout period restrictions set forth below. For purposes of this Policy, the individuals identified in the previous sentence and their Related Persons are collectively referred to as â€œApplied Insiders.â€General PolicyÂ No Trading on Material Non-public InformationYou must not â€" directly or indirectly through others â€" buy or sell Applied securities while you are aware of material non-public information about Applied or its business activities. Similarly, you may not engage in transactions involving the securities of any other company if you obtain material non-public information about that company in the course of your employment with or service to Applied. No â€œTippingâ€ of Material Non-public Information You may not disclose material non-public information concerning Applied or any other company to others, including friends, family members, work colleagues who do not need to know the information to perform their duties, or to anyone else who might buy or sell a security on the basis of that information (including on social media). Even if you do not directly disclose the material non-public information, you may not make recommendations or express opinions about

the securities of Applied or another company based on material non-public information. Applied Materials, Inc. Insider Trading Policy Â Â Â Â Â Â Â Â Â Â Â Â 1Effective March 2023Key DefinitionsÂ â€œmaterial non-public information.â€ The U.S. securities laws prohibit insider trading and tipping based on material non-public information. In general, information is â€œmaterialâ€ if (1) there is a substantial likelihood that a reasonable investor would consider it important in making a decision to buy, sell or retain a security, or (2) the information, if disclosed, could be expected to affect the market price of the security. Material information may be either positive or negative. It is important to note that â€œmaterialityâ€ is different for different companies, and therefore information that is not material to Applied may be material to another company, or vice versa. Similarly, information that is material at one point in time may cease to be material at another point in time, and vice versa.The determination of materiality depends on all relevant facts and circumstances, and while it is not possible to define all categories of material information, some examples of information that would normally be regarded as â€œmaterialâ€ include the following: â€¢financial results, financial condition, projections or forecasts;â€¢plans to launch new products or other market initiatives of a significant nature;â€¢the status of Appliedâ€™s progress towards achieving significant goals or strategies;â€¢significant developments involving business relationships with key customers, suppliers or other business partners;â€¢significant corporate events, such as a pending or proposed acquisition or disposition;â€¢new equity or debt offerings;â€¢establishment of a repurchase program for Appliedâ€™s securities;â€¢positive or negative developments in significant litigation or regulatory matters; â€¢significant data breaches or other cybersecurity events; andâ€¢significant changes in senior management.Information is considered â€œnon-publicâ€ until it has been widely disseminated in a manner making it generally available to investors, (for example, through major news services, a widely disseminated press release or a filing with the U.S. Securities and Exchange Commission (the â€œSECâ€)), and the public has had a chance to absorb and evaluate it (generally by the second trading day after public release). â€œsecuritiesâ€ may include common stock, preferred stock, options, warrants, bonds and convertible securities, as well as derivative securities relating to such securities, whether or not issued by the Company, such as exchange-traded options. Blackout PeriodsÂ To avoid the appearance that a member of Applied Personnel traded while aware of material non-public information, Applied designates quarterly and special trading blackout periods when Applied Insiders may not buy or sell Applied securities. Quarterly Blackout PeriodsApplied Insiders are prohibited from buying or selling Applied securities during quarterly blackout periods, which (i) begin prior to the start of the trading day on Nasdaq three weeks before the end of Appliedâ€™s fiscal quarter, and (ii) end at the start of the second trading day on Nasdaq after the public disclosure of the financial results for that fiscal quarter. The Company will email a reminder to Applied Insiders approximately one week prior to the beginning of each quarterly blackout period with the dates when the blackout period will be in effect. It is each Applied Insiderâ€™s Applied Materials, Inc. Insider Trading Policy Â Â Â Â Â Â Â Â Â Â Â Â 2Effective March 2023individual responsibility not to transact in Applied securities during any blackout period, which includes cancelling any standing or limit orders you may have with your broker before the blackout period begins. Special Blackout PeriodsFrom time to time, the Company may also impose special blackout periods when there are material developments not yet disclosed to the public, such as in anticipation of announcing a significant transaction or business development. We will notify you if you are subject to a special blackout period. If you receive this notification, you must not disclose to others the fact that you are subject to a special blackout, and you and your Related Persons may not buy or sell Applied securities until you are notified that the blackout has been lifted.Other Blackout PeriodsIn addition to quarterly and special blackouts, there may be other circumstances when we are required to impose a trading blackout. For example, under the U.S. Sarbanes-Oxley Act, all directors and executive officers are prohibited from buying and selling Applied securities during specified pension fund blackout periods, when participants in Applied benefit plans are unable to execute transactions relating to Applied securities in their accounts. These pension fund blackout periods typically occur when there is a change in the planâ€™s trustee, record keeper or investment manager. Directors, executive officers and other affected Applied Personnel will be notified when pension fund blackouts or other restricted trading periods are instituted. Modification of Blackout PeriodsThe Company may shorten, suspend, extend or terminate any blackout period at such time and for such duration as it deems appropriate given the relevant circumstances. Any persons affected by such a modification will be notified accordingly.Remember that insider trading and tipping are prohibited at all times, regardless of whether a blackout period is in place and regardless of whether you are subject to the blackout â€“ it is your individual responsibility not to trade while in possession of material non-public information.Special TransactionsÂ Transactions under Company Plansâ€¢Acquisition, vesting and exercise of equity awards. This Policy does not apply to your acceptance of equity awards, including restricted stock units or stock options, offered by Applied under Company plans, or the vesting, cancellation or forfeiture of equity awards in connection with your service with Applied. The Policy also does not apply to the withholding of shares to satisfy tax obligations upon vesting of restricted stock units or the cash exercise of options to acquire Applied securities. However, the Policy does apply to any sale of Applied shares as part of a cashless exercise of an option or to generate any cash needed to pay the exercise price.â€¢Applied Employee Stock Purchase Plan (â€œESPPâ€). This Policy does not apply to purchases of Applied shares under the ESPP pursuant to an election you made at the time of your enrollment. This Policy does apply, however, to your sale of Applied shares purchased under the ESPP (including any sales made pursuant to an election to automatically sell shares purchased under the plan). Gifts This Policy applies to any disposition in the form of a gift of any Applied securities. Applied Materials, Inc. Insider Trading Policy Â Â Â Â Â Â Â Â Â Â Â Â 3Effective March 2023Transactions Not Involving a Purchase or SaleThe Policy does not apply to transfers by will or the laws of descent and distribution, or transfers for tax planning purposes in which your beneficial ownership and pecuniary interest in the transferred securities does not change. Transactions under an Approved 10b5-1 PlanDespite any contrary provisions in this Policy, it will not be a violation of this Policy for an Applied Insider to sell or purchase securities, even when you are in possession of material non-public information, under a pre-established trading plan that (i) meets the requirements set forth in Rule 10b5-1 of the Securities Exchange Act of 1934; (ii)Â was entered into when you were not aware of material non-public information and not during a blackout period; and (iii) was approved in advance by the Legal and Compliance Organization. Standing or Limit Orders with Your BrokerYou should exercise caution when placing standing or limit orders with brokers, particularly if the order is likely to remain outstanding for an extended period of time. It is your responsibility to cancel any open standing or limit orders at or before the start of any trading blackout period that applies to you.Other Prohibited TransactionsÂ Hedging and Other Speculative TransactionsApplied Personnel may not enter into speculative transactions relating to Applied securities, including short sales, derivative securities (such as put and call options, or other similar instruments) and other hedging transactions (such as equity swaps, prepaid variable forwards, or similar instruments), or otherwise engage in transactions that have or are designed to have the effect of hedging or offsetting any decrease in the market value of Applied securities. Investing in Applied securities provides an opportunity to share in the future growth of the Company. Investment in the Company and sharing in the growth of the Company, however, does not mean short-term speculation based on fluctuations in the market. Such activities may put the personal gain of a director, officer, employee, or other service provider in conflict with the best interests of the Company and its stockholders. Margin Accounts and Pledges by Section 16 Officers and DirectorsSecurities held in a margin account as collateral for a margin loan may be sold by the broker without the clientâ€™s consent if the client fails to meet a margin call. Similarly, securities pledged as collateral for a loan may be sold in foreclosure if the borrower defaults on the loan. Because a margin sale or foreclosure sale may occur at a time when the pledgor is aware of material non-public information or subject to a blackout, Section 16 Officers and Directors are prohibited from holding Applied securities in a margin account or otherwise pledging Applied securities as collateral for a loan.Pre-Clearance Requirements and Reporting Obligations for Section 16 Officers and DirectorsÂ Section 16 Officers and Directors must file reports with the SEC about their transactions in Applied equity securities, including the giving or receiving of gifts of Applied securities and purchases of Applied shares under the ESPP. In addition, these individuals may be liable for recovery of â€œshort-swing profitsâ€ as defined under Section 16. For this reason, Section 16 Officers and Directors are prohibited from executing any purchase followed by a sale, or a sale followed by a purchase, of Applied shares within a rolling six-month period. Trading in Applied securities under an approved Rule 10b5-1 plan does not exempt such transactions from the provisions of Section 16, including its reporting requirements. To facilitate compliance with these requirements and this Policy, Section 16 Officers and Directors must obtain pre-clearance prior to any transaction (including gifts) in Applied securities, and comply with other requirements, Applied Materials, Inc. Insider Trading Policy Â Â Â Â Â Â Â Â Â Â Â Â 4Effective March 2023including post-transaction notification requirements, as specified by the Legal and Compliance Organization. Unless revoked, pre-clearance will typically be valid for 2 to 5 business days (with the number of days depending on circumstances at that time). If the transaction does not occur during the pre-clearance period, pre-clearance must be re-requested. The Company is under no obligation to grant pre-clearance and may determine not to permit the transaction. If a person requests pre-clearance and permission is denied, the person must refrain from initiating any transaction in Applied securities and should not inform any other person about the restriction. Pre-clearance will not be granted during a blackout period. From time to time, the Legal and Compliance Organization may identify other persons who are required to obtain pre-clearance prior to trading in Applied securities.Remember that obtaining pre-clearance of a transaction does not relieve you of your obligation to avoid insider trading and does not provide you with a legal defense against allegations of insider trading. Post-Termination TransactionsÂ Federal and state securities laws continue to apply to your transactions in Applied and other securities even after your termination of service to the Company. If you are aware of material non-public information when your service terminates, you may not trade in Applied securities until that information has become public or is no longer material. Consequences of Insider TradingÂ The SEC, the stock exchanges and other authorities use sophisticated electronic surveillance techniques to uncover insider trading. Any violation of laws relating to insider trading or tipping could subject you and Applied to severe civil and criminal sanctions, including disgorgement of profits, substantial fines and possibly even jail time. Applied Personnel who violate this Policy are also subject to disciplinary action up to and including termination. Individual ResponsibilityÂ Every director, officer, and other employee, consultant and contractor has the individual responsibility to comply with this Policy, and the applicable laws of their jurisdiction. An Applied Insider may have to delay trading in the Companyâ€™s securities even if he or she had planned to make the transaction before becoming aware of material non-public information, and even if the Applied Insider believes he or she may suffer an economic loss or forego anticipated profit by waiting. Trading in the Companyâ€™s securities outside of a blackout period does not relieve your individual responsibility not to trade while in possession of material non-public information, and all directors, officers and other persons should use good judgment at all times. Inquiries or ReportsÂ Please promptly report violations or suspected violations of this Policy to Global Ethics and Compliance at ethics_everywhere@amat.com. Â You may also report (anonymously if preferred) via the Ethics Helpline at helpline.appliedmaterials.com or 1-877-225-5554. If you have any uncertainty as to the appropriateness of any securities trades or any questions about this Policy or its application, please contact the Legal and Compliance Organization for additional guidance. Ultimately, however, it is your individual responsibility to comply with this Policy and applicable laws.Applied Materials, Inc. Insider Trading Policy Â Â Â Â Â Â Â Â Â Â Â Â 5Effective March 2023 EX-21 3 ex21_amatq42024q4.htm EX-21 DocumentExhibit 21SUBSIDIARIES OF APPLIED MATERIALS, INC.As of October 27, 2024 Â Â Â Â Â Â Â Â Â Â Â Â LEGAL ENTITY NAMEPLACE OF INCORPORATIONApplied Materials (Holdings)(1)CaliforniaApplied Materials Asia-Pacific, LLC(2) (3)DelawareApplied Materials Canada, Inc.CanadaApplied Materials Holdings S.Ã r.l.(4)LuxembourgApplied Materials India Private LimitedIndiaApplied Materials Israel Ltd.(5)IsraelApplied Ventures, LLC(6) (7)DelawareSemitool, Inc.MontanaTango Systems LLCDelawareVarian Semiconductor Equipment Associates, Inc.(8)DelawareVeranome Biosystems LLCDelaware(1) Applied Materials (Holdings) owns the following subsidiary:Â Â Â Â Â Â Applied Materials UK LimitedCalifornia(2) Applied Materials Asia-Pacific, LLC owns the following subsidiaries:Applied Materials (China) Holdings, Ltd.(a)P.R. ChinaApplied Materials China, Limited(b)Hong Kong(3) Applied Materials Asia-Pacific, LLC and Applied Materials Netherlands B.V. each partially own the following subsidiary:Applied Materials Taiwan, Ltd.Taiwan(4) Applied Materials Holdings S.Ã r.l. owns the following subsidiaries:Â Â Â Â Â Â Applied Materials Luxembourg 2 S.Ã r.l.LuxembourgÂ Â Â Â Â Â Applied Materials U.S. Holdings LLCDelaware(5) Applied Materials Israel Ltd. owns the following subsidiary:Â Â Â Â Â Â ICT Integrated Circuit Testing GmbHGermany(6) Applied Ventures, LLC owns the following subsidiaries:Applied Ventures Investment Management GP I, LLC(c)DelawareApplied Ventures Investment Management GP II, LLC(d)Delaware(7) Applied Ventures, LLC owns 50% of the following subsidiary:Applied Ventures ITIC Innovation Fund GP, LLC(e)DelawareÂ Â Â Â 1LEGAL ENTITY NAMEPLACE OF INCORPORATION(8) Varian Semiconductor Equipment Associates, Inc. owns the following subsidiaries:Applied Materials Finland International OyFinlandApplied Materials Global Venture Partner Pte. Ltd.SingaporeApplied Materials Singapore Holdings Pte. Ltd.SingaporeApplied Materials South East Asia Pte. Ltd.(c)(d)(f)SingaporeBaccini Pte. Ltd.SingaporePerceptive Engineering Pte. Ltd.SingaporePicosun USA LLCMichiganValaya Pte. Ltd.(g)(h)Singapore(a) Applied Materials (China) Holdings, Ltd. owns the following subsidiary:Â Â Â Â Â Â Applied Materials (Xi'an), Ltd.P.R. China(b) Applied Materials China, Limited owns the following subsidiaries:Â Â Â Â Â Â Applied Materials (China), Inc.P.R. ChinaÂ Â Â Â Â Â Â Applied Materials Display Equipment (Shanghai) Co., Ltd.P.R. ChinaÂ Â Â Â Â Â Â Lin-gang Special Area Applied Materials (Shanghai) Co., Ltd.P.R. China(c) Applied Ventures Investment Management GP I, LLC and Applied Materials South East Asia Pte. Ltd., collectively own 60% of the following subsidiary:Applied Ventures Innovation Fund I, L.P.Delaware(d) Applied Ventures Investment Management GP II, LLC and Applied Materials South East Asia Pte. Ltd., collectively own 60% of the following subsidiary:Applied Ventures Innovation Fund II, L.P.Delaware(e) Applied Ventures ITIC Innovation Fund GP, LLC and Applied Materials, Inc. collectively own 31.5% of the following subsidiary:Applied Ventures ITIC Innovation Fund, L.P.Delaware2LEGAL ENTITY NAMEPLACE OF INCORPORATION(f) Applied Materials South East Asia Pte. Ltd. owns the following subsidiaries:Applied Materials Costa Rica Sociedad De Responsibilidad LimitadaCosta RicaApplied Materials Europe B.V.The NetherlandsApplied Materials Holdings B.V.The NetherlandsApplied Materials Hong Kong LimitedHong KongApplied Materials Korea Innovation and Technology, LLCKoreaApplied Materials Netherlands B.V.(3)(j)The NetherlandsApplied Materials Philippines LLCNevadaApplied Materials Singapore Technology Pte. Ltd.SingaporeMDLSoft LLC(k)DelawarePerceptive Engineering Limited(l)United KingdomSage Design Automation, Ltd.Israel(g) Valaya Pte. Ltd. owns the following subsidiaries:Valaya Enterprises LLC(h)DelawareValaya Innovations LLCDelaware(h) Valaya Pte. Ltd. and Valaya Enterprises LLC each partially own the following subsidiaries:Valaya R&D Private India LimitedIndia(i) Applied Materials GmbH & Co. KG owns the following subsidiary:Applied Materials WEB Coating GmbHGermany(j) Applied Materials Netherlands B.V. owns the following subsidiaries:Applied Materials Belgium N.V.BelgiumApplied Materials Deutschland Holding GmbH(m)GermanyApplied Materials France S.a.r.l.FranceApplied Materials Finland Holdings OyFinlandApplied Materials GmbHGermanyApplied Materials Ireland LimitedIrelandApplied Materials Italia S.r.l.ItalyApplied Materials Japan, Inc.(n)JapanApplied Materials Korea Ltd.KoreaPicosun Oy(o)FinlandThink Silicon Single Member P.C.Greece3LEGAL ENTITY NAMEPLACE OF INCORPORATION(k) MDLSoft LLC owns the following subsidiary:MDLab S.r.l. in liquidationItaly(l) Perceptive Engineering Limited owns the following subsidiaries:Perceptive Engineering LimitedIreland(m) Applied Materials Deutschland Holding GmbH owns the following subsidiaries:Applied Materials GmbH & Co. KG(i)GermanyApplied Materials Verwaltung GmbHGermanyMecatronix GmbHGermany(n) Applied Materials Japan, Inc. owns the following subsidiaries:Picosun Japan Co., Ltd.JapanSigmameltec Ltd.Japan(o) Picosun Oy owns the following subsidiaries:Picosun (Suzhou) Nanotechnology Co., Ltd.P.R. ChinaPicosun Korea LimitedKoreaPicosun Taiwan Co. Ltd.Taiwan4 EX-23 4 ex23_amatq4202410kq4.htm EX-23 DocumentExhibit 23Consent of Independent Registered Public Accounting FirmThe Board of DirectorsApplied Materials, Inc.:We consent to the incorporation by reference in the registration statements (Nos. 333-35396; 333-116393; 333-143377; 333-157661; 333-181666; 333-211965; 333-225578; 333-256559; 333-256561; and 333-274195) on Form S-8 and the registration statement (No. 333-279682) on Form S-3ASR of our report dated December 13, 2024, with respect to the consolidated financial statements of Applied Materials, Inc., and the effectiveness of internal control over financial reporting./s/ KPMG LLPKPMG LLPSanta Clara, CaliforniaDecemberÂ 13, 20241 EX-31.1 5 ex311_amatq42024.htm EX-31.1 DocumentEXHIBIT 31.1 CERTIFICATION I, Gary E. Dickerson, certify that: 1. I have reviewed this Annual Report on Form 10-K of Applied Materials, 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: DecemberÂ 13, 2024 Â /s/ GARY E. DICKERSONGary E. DickersonPresident, Chief Executive OfficerÂ EX-31.2 6 ex312_amatq42024.htm EX-31.2 DocumentEXHIBIT 31.2 CERTIFICATION I, Brice Hill, certify that: 1. I have reviewed this Annual Report on Form 10-K of Applied Materials, 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: DecemberÂ 13, 2024 Â /s/ BRICE HILLBrice HillSenior Vice President, Chief Financial OfficerÂ EX-32.1 7 ex321_amatq42024for10-kq4.htm EX-32.1 DocumentEXHIBIT 32.1SARBANES-OXLEY ACT SECTION 906 CERTIFICATION In connection with this Annual Report on Form 10-K of Applied Materials, Inc. for the fiscal year ended OctoberÂ 27, 2024, I, Gary E. Dickerson, President, Chief Executive Officer of Applied Materials, Inc., hereby certify pursuant to 18 U.S.C. SectionÂ 1350, as adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002, that: 1. this Form 10-K for the fiscal year ended OctoberÂ 27, 2024 fully complies with the requirements of SectionÂ 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and 2. the information contained in this Form 10-K for the fiscal year ended OctoberÂ 27, 2024 fairly presents, in all material respects, the financial condition and results of operations of Applied Materials, Inc. for the periods presented therein. Date: DecemberÂ 13, 2024 Â /s/ GARY E. DICKERSONGary E. DickersonPresident, Chief Executive OfficerÂ EX-32.2 8 ex322_amatq42024for10-kq4.htm EX-32.2 DocumentEXHIBIT 32.2SARBANES-OXLEY ACT SECTION 906 CERTIFICATION In connection with this Annual Report on Form 10-K of Applied Materials, Inc. for the fiscal year ended OctoberÂ 27, 2024, I, Brice Hill, Senior Vice President, Chief Financial Officer of Applied Materials, Inc., hereby certify pursuant to 18 U.S.C. SectionÂ 1350, as adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002, that: 1. this Form 10-K for the fiscal year ended OctoberÂ 27, 2024 fully complies with the requirements of SectionÂ 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and 2. the information contained in this Form 10-K for the fiscal year ended OctoberÂ 27, 2024 fairly presents, in all material respects, the financial condition and results of operations of Applied Materials, Inc. for the periods presented therein. Date: DecemberÂ 13, 2024Â /s/ BRICE HILLBrice HillSenior Vice President, Chief Financial OfficerÂ EX-101.SCH 9 amat-20241027.xsd XBRL TAXONOMY EXTENSION SCHEMA DOCUMENT 0000001 - Document - Cover Page link:presentationLink link:calculationLink link:definitionLink 0000002 - Document - Audit Information link:presentationLink link:calculationLink link:definitionLink 9952151 - Statement - Consolidated Statements of Operations link:presentationLink link:calculationLink link:definitionLink 9952152 - Statement - Consolidated Statements of Comprehensive Income link:presentationLink link:calculationLink link:definitionLink 9952153 - Statement - Consolidated Balance Sheets link:presentationLink link:calculationLink link:definitionLink 9952154 - Statement - Consolidated Balance Sheets (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952155 - Statement - Consolidated Statements of Stockholders' Equity link:presentationLink link:calculationLink link:definitionLink 9952156 - Statement - Consolidated Statements of Stockholders' Equity (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952157 - Statement - Consolidated Statements of Cash Flows link:presentationLink link:calculationLink link:definitionLink 9952158 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards link:presentationLink link:calculationLink link:definitionLink 9952159 - Disclosure - Earnings Per Share link:presentationLink link:calculationLink link:definitionLink 9952160 - Disclosure - Cash, Cash Equivalents and Investments link:presentationLink link:calculationLink link:definitionLink 9952161 - Disclosure - Fair Value Measurements link:presentationLink link:calculationLink link:definitionLink 9952162 - Disclosure - Derivative Instruments and Hedging Activities link:presentationLink link:calculationLink link:definitionLink 9952163 - Disclosure - Accounts Receivable, Net link:presentationLink link:calculationLink link:definitionLink 9952164 - Disclosure - Contract Balances and Performance Obligations link:presentationLink link:calculationLink link:definitionLink 9952165 - Disclosure - Balance Sheet Detail link:presentationLink link:calculationLink link:definitionLink 9952166 - Disclosure - Borrowing Facilities and Debt link:presentationLink link:calculationLink link:definitionLink 9952167 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation link:presentationLink link:calculationLink link:definitionLink 9952168 - Disclosure - Employee Benefit Plans link:presentationLink link:calculationLink link:definitionLink 9952169 - Disclosure - Income Taxes link:presentationLink link:calculationLink link:definitionLink 9952170 - Disclosure - Guarantees, Commitments and Contingencies link:presentationLink link:calculationLink link:definitionLink 9952171 - Disclosure - Industry Segment Operations link:presentationLink link:calculationLink link:definitionLink 9955511 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards (Policies) link:presentationLink link:calculationLink link:definitionLink 9955512 - Disclosure - Earnings Per Share (Tables) link:presentationLink link:calculationLink link:definitionLink 9955513 - Disclosure - Cash, Cash Equivalents and Investments (Tables) link:presentationLink link:calculationLink link:definitionLink 9955514 - Disclosure - Fair Value Measurements (Tables) link:presentationLink link:calculationLink link:definitionLink 9955515 - Disclosure - Contract Balances and Performance Obligations (Tables) link:presentationLink link:calculationLink link:definitionLink 9955516 - Disclosure - Balance Sheet Detail (Tables) link:presentationLink link:calculationLink link:definitionLink 9955517 - Disclosure - Borrowing Facilities and Debt (Tables) link:presentationLink link:calculationLink link:definitionLink 9955518 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation (Tables) link:presentationLink link:calculationLink link:definitionLink 9955519 - Disclosure - Income Taxes (Tables) link:presentationLink link:calculationLink link:definitionLink 9955520 - Disclosure - Industry Segment Operations (Tables) link:presentationLink link:calculationLink link:definitionLink 9955521 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards - Property Plant and Equipment Useful Life (Details) link:presentationLink link:calculationLink link:definitionLink 9955522 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards - Government Assistance (Details) link:presentationLink link:calculationLink link:definitionLink 9955523 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards - Goodwill and Intangible Assets (Details) link:presentationLink link:calculationLink link:definitionLink 9955524 - Disclosure - Summary of Significant Accounting Policies and Recently Adopted Accounting Standards - Warranty (Details) link:presentationLink link:calculationLink link:definitionLink 9955525 - Disclosure - Earnings Per Share (Details) link:presentationLink link:calculationLink link:definitionLink 9955526 - Disclosure - Cash, Cash Equivalents and Investments - Summary of Cash, Cash Equivalents and Investments (Details) link:presentationLink link:calculationLink link:definitionLink 9955526 - Disclosure - Cash, Cash Equivalents and Investments - Summary of Cash, Cash Equivalents and Investments (Details) link:presentationLink link:calculationLink link:definitionLink 9955527 - Disclosure - Cash, Cash Equivalents and Investments - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955528 - Disclosure - Cash, Cash Equivalents and Investments - Summary of Contractual Maturity (Details) link:presentationLink link:calculationLink link:definitionLink 9955529 - Disclosure - Cash, Cash Equivalents and Investments - Gain (Loss) on Equity Investments (Details) link:presentationLink link:calculationLink link:definitionLink 9955530 - Disclosure - Fair Value Measurements - Assets Measured at Fair Value (Details) link:presentationLink link:calculationLink link:definitionLink 9955531 - Disclosure - Fair Value Measurements - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955532 - Disclosure - Derivative Instruments and Hedging Activities (Details) link:presentationLink link:calculationLink link:definitionLink 9955533 - Disclosure - Accounts Receivable, Net (Details) link:presentationLink link:calculationLink link:definitionLink 9955534 - Disclosure - Contract Balances and Performance Obligations - Schedule of Contract Assets and Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9955535 - Disclosure - Contract Balances and Performance Obligations - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955535 - Disclosure - Contract Balances and Performance Obligations - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955536 - Disclosure - Balance Sheet Detail - Inventories (Details) link:presentationLink link:calculationLink link:definitionLink 9955537 - Disclosure - Balance Sheet Detail - Other Current Assets (Details) link:presentationLink link:calculationLink link:definitionLink 9955538 - Disclosure - Balance Sheet Detail - Property, Plant and Equipment (Details) link:presentationLink link:calculationLink link:definitionLink 9955539 - Disclosure - Balance Sheet Detail - Deferred Income Taxes and Other Assets (Details) link:presentationLink link:calculationLink link:definitionLink 9955540 - Disclosure - Balance Sheet Detail - Accounts Payable and Accrued Expense (Details) link:presentationLink link:calculationLink link:definitionLink 9955541 - Disclosure - Balance Sheet Detail - Other Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9955542 - Disclosure - Balance Sheet Detail - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955543 - Disclosure - Borrowing Facilities and Debt - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955544 - Disclosure - Borrowing Facilities and Debt - Debt Outstanding (Details) link:presentationLink link:calculationLink link:definitionLink 9955545 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Changes in Components of AOCI (Details) link:presentationLink link:calculationLink link:definitionLink 9955546 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955547 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Stock Repurchase Program (Details) link:presentationLink link:calculationLink link:definitionLink 9955548 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Share-Based Compensation (Details) link:presentationLink link:calculationLink link:definitionLink 9955549 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Valuation of Share-based Awards (Details) link:presentationLink link:calculationLink link:definitionLink 9955550 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Restricted Stock Units, Restricted Stock, Performance Shares Units and Performance Units (Details) link:presentationLink link:calculationLink link:definitionLink 9955551 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Weighted-Average Grant Date Fair Value Per Share and Total Fair Value Vested Awards (Details) link:presentationLink link:calculationLink link:definitionLink 9955552 - Disclosure - Stockholders' Equity, Comprehensive Income and Share-Based Compensation - Employee Stock Purchase Plan, Valuation Assumptions (Details) link:presentationLink link:calculationLink link:definitionLink 9955553 - Disclosure - Employee Benefit Plans (Details) link:presentationLink link:calculationLink link:definitionLink 9955554 - Disclosure - Income Taxes - Components of Income Taxes (Details) link:presentationLink link:calculationLink link:definitionLink 9955555 - Disclosure - Income Taxes - Effective Income Tax Rate Reconciliation (Details) link:presentationLink link:calculationLink link:definitionLink 9955556 - Disclosure - Income Taxes - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955557 - Disclosure - Income Taxes - Components of Deferred Income Tax Assets and Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9955558 - Disclosure - Income Taxes - Valuation Allowance (Details) link:presentationLink link:calculationLink link:definitionLink 9955559 - Disclosure - Income Taxes - Reconciliation of Unrecognized Tax Benefits (Details) link:presentationLink link:calculationLink link:definitionLink 9955560 - Disclosure - Guarantees, Commitments and Contingencies (Details) link:presentationLink link:calculationLink link:definitionLink 9955561 - Disclosure - Industry Segment Operations - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9955562 - Disclosure - Industry Segment Operations - Schedule of Segment Reporting (Details) link:presentationLink link:calculationLink link:definitionLink 9955563 - Disclosure - Industry Segment Operations - Schedule of Goodwill by Reportable Segment (Details) link:presentationLink link:calculationLink link:definitionLink 9955564 - Disclosure - Industry Segment Operations - Net Sales and Operating Income (Loss) (Details) link:presentationLink link:calculationLink link:definitionLink 9955565 - Disclosure - Industry Segment Operations - Segment Reconciling Items (Details) link:presentationLink link:calculationLink link:definitionLink 9955566 - Disclosure - Industry Segment Operations - Net Sales and Long-lived Assets (Details) link:presentationLink link:calculationLink link:definitionLink 9955567 - Disclosure - Industry Segment Operations - Percentage by Customer (Details) link:presentationLink link:calculationLink link:definitionLink EX-101.CAL 10 amat-20241027_cal.xml XBRL TAXONOMY EXTENSION CALCULATION LINKBASE DOCUMENT EX-101.DEF 11 amat-20241027_def.xml XBRL TAXONOMY EXTENSION DEFINITION LINKBASE DOCUMENT EX-101.LAB 12 amat-20241027_lab.xml XBRL TAXONOMY EXTENSION LABEL LINKBASE DOCUMENT Discounted promissory notes Accounts Receivable Discount Promissory Notes Issued During Period Accounts Receivable Discount Promissory Notes Issued During Period Adjustments required to reconcile net income to cash provided by operating activities: Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Remaining authorized repurchase amount Share Repurchase Program, Remaining Authorized, Amount Cover [Abstract] Increase (decrease) in cash, cash equivalents and restricted cash equivalents Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Government assistance statement of income, extensible enumeration, not disclosed Government Assistance Statement Of Income Or Comprehensive Income Extensible Enumeration Not Disclosed Flag Government Assistance Statement Of Income Or Comprehensive Income Extensible Enumeration Not Disclosed Flag Inventory reserves and basis difference Deferred Tax Assets, Inventory Income Tax Jurisdiction [Domain] Income Tax Jurisdiction [Domain] Weight of metric (as a percent) Share-based Compensation Arrangement By Share-based Payment Award, Award Measurement Metric Relative Weight, Percent Share-based Compensation Arrangement By

Share-based Payment Award, Award Measurement Metric Relative Weight, Percent Trading Symbol Trading Symbol Accordion feature, increase limit Line of Credit Facility, Accordion Feature, Increase Limit Line of Credit Facility, Accordion Feature, Increase Limit Non-NEOs Non-NEOs [Member] Unrealized loss Equity Securities without Readily Determinable Fair Value, Unrealized Loss Equity Securities without Readily Determinable Fair Value, Unrealized Loss Income tax benefits recognized Share-Based Payment Arrangement, Expense, Tax Benefit Cash, cash equivalents and investments, gross unrealized gains Cash, Cash Equivalents, And Investments, Accumulated Gross Unrealized Gain, Before Tax Cash, Cash Equivalents, And Investments, Accumulated Gross Unrealized Gain, Before Tax Dividends declared per share (in dollars per share) Common Stock, Dividends, Per Share, Declared Equity investments and equity securities without readily determinable, gross unrealized losses Equity Securities, FV-NI And Without Readily Determinable Fair Value, Gross Unrealized Losses Equity Securities, FV-NI And Without Readily Determinable Fair Value, Gross Unrealized Losses Line of Credit Facility [Table] Line of Credit Facility [Table] Income Tax Examination [Line Items] Income Tax Examination [Line Items] Accounts receivable Increase (Decrease) in Accounts Receivable Government Assistance, Asset, Decrease, Noncurrent, Statement of Financial Position [Extensible Enumeration] Government Assistance, Asset, Decrease, Noncurrent, Statement of Financial Position [Extensible Enumeration] Inventories Inventory, Policy [Policy Text Block] Non-Rule 10b5-1 Arrangement Adopted Non-Rule 10b5-1 Arrangement Adopted [Flag] Fair Value Measurements Fair Value Disclosures [Text Block] Award Timing Disclosures [Line Items] Summary of Cash, Cash Equivalents and Investments Investments and Cash [Abstract] Portion at Fair Value Measurement Portion at Fair Value Measurement [Member] Equity investments in privately held companies Equity Investments In Privately Held Companies [Member] Equity investments in privately-held companies Member. Government Assistance, Liability, Decrease, Noncurrent, Statement of Financial Position [Extensible Enumeration] Government Assistance, Liability, Decrease, Noncurrent, Statement of Financial Position [Extensible Enumeration] Operating Lease, Liability, Noncurrent, Statement of Financial Position [Extensible Enumeration] Operating Lease, Liability, Noncurrent, Statement of Financial Position [Extensible Enumeration] Revenue from Contract with Customer [Abstract] SEC Schedule, 12-09, Valuation Allowances and Reserves Type [Axis] SEC Schedule, 12-09, Valuation Allowances and Reserves Type [Axis] Plan Name [Domain] Plan Name [Domain] United States UNITED STATES Inventories Inventory, Net [Abstract] Effect of weighted dilutive restricted stock units and employee stock purchase plan shares (in shares) Weighted Average Number of Shares Outstanding, Diluted, Adjustment Income tax receivables and other assets Other Assets, Noncurrent Operating Segments Operating Segments [Member] Cash provided by operating activities Net Cash Provided by (Used in) Operating Activities Cash flows from operating activities: Net Cash Provided by (Used in) Operating Activities [Abstract] Schedule of Components of Accumulated Other Comprehensive Income (Loss), After-Tax Basis Schedule of Accumulated Other Comprehensive Income (Loss) [Table Text Block] Property, plant and equipment Deferred Tax Assets, Property, Plant and Equipment Carried over until exhausted Research, Carried Over Until Exhausted [Member] Research, Carried Over Until Exhausted [Member] Employee Service Share-based Compensation, Allocation of Recognized Period Costs [Line Items] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Award Timing Method Award Timing Method [Text Block] Non-vested restricted stock units, restricted stock, performance shares units and performance units expected to vest (shares) Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested And Expected To Vest Number Share Based Compensation Arrangement by Share Based Payment Award Equity Instruments Other Than Options Vested and Expected To Vest Number. Government Assistance, Operating Expense, Decrease (Increase), Statement of Income or Comprehensive Income [Extensible Enumeration] Government Assistance, Operating Expense, Decrease (Increase), Statement of Income or Comprehensive Income [Extensible Enumeration] Trading Arrangements, by Individual Trading Arrangements, by Individual [Table] Taiwan TAIWAN Measurement Frequency [Axis] Measurement Frequency [Axis] Entity Common Stock, Shares Outstanding Entity Common Stock, Shares Outstanding Insider Trading Policies and Procedures [Line Items] Municipal securities US States and Political Subdivisions Debt Securities [Member] Use of Estimates Use of Estimates, Policy [Policy Text Block] Restricted Cash Equivalents, Statement of Financial Position [Extensible Enumeration] Restricted Cash Equivalents, Statement of Financial Position [Extensible Enumeration] Adjustment to Compensation, Amount Adjustment to Compensation Amount Additional paid-in capital Additional Paid in Capital, Common Stock Compensation Amount Outstanding Recovery Compensation Amount Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table [Member] Change in unrealized gain (loss) on available-for-sale investments Other Comprehensive Income (Loss), Available-for-Sale Securities Adjustment, Net of Tax, Portion Attributable to Parent Entity Small Business Entity Small Business Company Selected Measure Amount Company Selected Measure Amount Tabular List, Table Tabular List [Table Text Block] Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Government assistance, liability, decrease, current Government Assistance, Liability, Decrease, Current Potentially weighted dilutive securities (in shares) Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Long-Lived Assets Impairment or Disposal of Long-Lived Assets, Policy [Policy Text Block] Credit Facility [Domain] Credit Facility [Domain] Weighted average estimated fair value (in dollars per share) Weighted Average Estimated Fair Value Of Purchase Rights Under Espp Weighted Average Estimated Fair Value Of Purchase Rights Under ESPP. Goodwill Goodwill Total short-term and long-term investments cost Debt Securities, Equity Securities, FV-NI, And Equity Securities Without A Readily Determinable Fair Value, Cost Debt Securities, Equity Securities, FV-NI, And Equity Securities Without A Readily Determinable Fair Value, Cost Total outside United States Outside North America [Member] Outside North America. Tax withholding payments for vested equity awards Payment, Tax Withholding, Share-Based Payment Arrangement Authorized amount Share Repurchase Program, Authorized, Amount Cash refunds from income taxes Proceeds from Income Tax Refunds Total fixed income securities Fixed Income Securities [Member] Employee Stock Option Share-Based Payment Arrangement, Option [Member] Reduction in depreciation expense Depreciation Depreciation Comprehensive income Comprehensive Income (Loss), Net of Tax, Attributable to Parent Income taxes payable Accrued Income Taxes, Current Other Effective Income Tax Rate Reconciliation, Other Adjustments, Percent Schedule of Contractual Maturities of Investments Investments Classified by Contractual Maturity Date [Table Text Block] Award Type [Axis] Award Type [Axis] Total deferred tax liabilities Deferred Tax Liabilities, Net Schedule of Net Revenue and Long-Lived Assets Schedule of Revenue from External Customers and Long-Lived Assets, by Geographical Areas [Table Text Block] Capitalized R&D expenses Deferred Tax Assets, Capitalized Research And Development Costs Deferred Tax Assets, Capitalized Research And Development Costs Deferred compensation Deferred Tax Assets, Tax Deferred Expense, Compensation and Benefits, Other Work-in-process Inventory, Work in Process, Net of Reserves Property, plant and equipment, net Net property, plant and equipment Property, Plant and Equipment, Net ICFR Auditor Attestation Flag ICFR Auditor Attestation Flag Total liabilities Liabilities Long-lived assets Long-Lived Assets Common stock, par value per share (in dollars per share) Common Stock, Par or Stated Value Per Share Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table] Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Foreign Currency Foreign Currency Transactions and Translations Policy [Policy Text Block] Revolving Credit Revolving Credit Facility [Member] Expiration Date Trading Arrangement Expiration Date Cash flows from investing activities: Net Cash Provided by (Used in) Investing Activities [Abstract] Customer service spares Other Inventories, Spare Parts, Net of Reserves Other Inventories, Spare Parts, Net of Reserves Other Current Assets Other Assets [Abstract] Operating lease liabilities, current Operating Lease, Liability, Current Total Shareholder Return Amount Total Shareholder Return Amount Equity Awards Adjustments, Footnote Equity Awards Adjustments, Footnote [Text Block] Demonstration and manufacturing equipment Equipment [Member] Schedule of Stock Repurchases Class of Treasury Stock [Table Text Block] Gross property, plant and equipment Property, Plant and Equipment, Gross Debt Instrument [Line Items] Debt Instrument [Line Items] Named Executive Officers, Footnote Named Executive Officers, Footnote [Text Block] Research, development, and engineering Research and Development Expense [Member] Goodwill and Intangible Assets Goodwill and Intangible Assets, Policy [Policy Text Block] Taiwan Semiconductor Manufacturing Company Limited Taiwan Semiconductor Manufacturing Company Limited [Member] Taiwan Semiconductor Manufacturing Company Limited [Member] Diluted (in shares) Denominator for diluted earnings per share (in shares) Weighted Average Number of Shares Outstanding, Diluted MNPI Disclosure Timed for Compensation Value MNPI Disclosure Timed for Compensation Value [Flag] Accumulated Other Comprehensive Income (Loss), Net of Tax [Roll Forward] AOCI Attributable to Parent, Net of Tax [Roll Forward] Total stockholdersâ€™ equity Beginning Balance Ending Balance Equity, Attributable to Parent Gross deferred tax assets Deferred Tax Assets, Gross Executive Deferred Compensation Plans Deferred Compensation, Excluding Share-Based Payments and Retirement Benefits [Member] Due in one year or less, estimated fair value Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, Year One Software Software and Software Development Costs [Member] Concentration Risk Type [Domain] Concentration Risk Type [Domain] Interest income Investment Income, Net Proceeds from sales and maturities of investments Proceeds from Sale and Maturity of Other Investments Cost of products sold Cost of Sales [Member] Document Fiscal Period Focus Document Fiscal Period Focus Factored accounts receivable Factored Accounts Receivable Factored Accounts Receivable All Executive Categories All Executive Categories [Member] Statement of Financial Position Location, Balance [Domain] Statement of Financial Position Location, Balance [Domain] Unrealized Gain (Loss) on Investments, Net AOCI, Accumulated Gain (Loss), Debt Securities, Available-for-Sale, Parent [Member] Changed Peer Group, Footnote Changed Peer Group, Footnote [Text Block] ASSETS Assets [Abstract] Dividend yield Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Dividend Rate Segment Reporting, Reconciling Item for Operating Profit (Loss) from Segment to Consolidated [Line Items] Segment Reporting, Reconciling Item for Operating Profit (Loss) from Segment to Consolidated [Line Items] Document Type Document Type Effective InterestÂ Rate Debt Instrument, Interest Rate, Effective Percentage Derivative Contract [Domain] Derivative Contract [Domain] Schedule of Segment Reporting Schedule of Segment Reporting Information, by Segment [Table Text Block] Defined Benefit Plan [Table] Defined Benefit Plan [Table] Cost of fixed income securities Debt Securities, Available-for-Sale, Amortized Cost Schedule of Contract Balances Contract with Customer, Contract Asset, Contract Liability, and Receivable [Table Text Block] Schedule of Cash, Cash Equivalents and Investments [Table] Schedule of Cash, Cash Equivalents and Investments [Table] Schedule of Cash, Cash Equivalents and Investments [Table] Maximum Maximum [Member] Commercial paper, corporate bonds and medium-term notes Commercial Paper Corporate Bonds And Medium Term Notes [Member] Commercial paper corporate bonds and medium term notes [Member] Equity Valuation Assumption Difference, Footnote Equity Valuation Assumption Difference, Footnote [Text Block] Furniture, fixtures and other equipment Furniture, fixtures and other equipment Furniture and Fixtures [Member] Accounts payable Accounts Payable, Current Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block] Statistical Measurement [Axis] Statistical Measurement [Axis] Non-Rule 10b5-1 Arrangement Terminated Non-Rule 10b5-1 Arrangement Terminated [Flag] Income before income taxes Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Non-PEO NEO Average Total Compensation Amount Non-PEO NEO Average Total Compensation Amount Name Outstanding Recovery, Individual Name Summary of valuation allowance Summary of Valuation Allowance [Table Text Block] Goodwill impairment Goodwill, Impairment Loss Grant date market value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Grant Date Fair Value Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Grant Date Fair Value Award Timing Predetermined Award Timing Predetermined [Flag] Government Assistance, Liability, Decrease, Current, Statement of Financial Position [Extensible Enumeration] Government Assistance, Liability, Decrease, Current, Statement of Financial Position [Extensible Enumeration] Diluted (in dollars per share) Diluted earnings per share (in dollars per share) Earnings Per Share, Diluted Revenue Recognition from Contracts with Customers Revenue from Contract with Customer [Policy Text Block] State and Local Jurisdiction State and Local Jurisdiction [Member] U.S. Income (Loss) from Continuing Operations before Income Taxes, Domestic Government assistance, asset, decrease Government Assistance, Asset, Decrease, Noncurrent Contract liabilities Increase (Decrease) in Contract with Customer, Liability Total current provision for income taxes Current Income Tax Expense (Benefit) Restatement does not require Recovery Restatement Does Not Require Recovery [Text Block] Tax credit carryforward, term Tax Credit Carryforward, Term Tax Credit Carryforward, Term Retirement Benefits [Abstract] Retirement Benefits [Abstract] Deferred tax liabilities: Deferred Tax Liabilities, Gross [Abstract] Preferred stock, shares issued (in shares) Preferred Stock, Shares Issued Major Customers [Axis] Customer [Axis] Statement of Financial Position [Abstract] Statement of Financial Position [Abstract] Asset-backed and mortgage-backed securities Asset-Backed Securities [Member] Warranty Product Warranty Accrual, Current Marketing and selling Selling and Marketing Expense Provision for income taxes Total Income Tax Expense (Benefit) Components of income from operations before income taxes Income (Loss) from Continuing Operations before Equity Method Investments, Income Taxes, Noncontrolling Interest [Abstract] Derivative, notional amount Derivative, Notional Amount Equity investments unrealized gains Equity Securities, FV-NI, Accumulated Unrealized Gain Equity Securities, FV-NI, Accumulated Unrealized Gain Performance Shares Subject to Market Goals Performance Shares Subject To Market Goals [Member] Performance Shares Subject To Market Goals Stockholders' Equity, Comprehensive Income and Share-Based Compensation Shareholders' Equity and Share-Based Payments [Text Block] Weighted average period for unrecognized compensation expense to be recognized Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Period for Recognition Net revenue Unallocated Net revenue Revenue from Contract with Customer, Excluding Assessed Tax Foundry, logic and other Foundry, Logic, And Other [Member] Foundry, Logic, And Other Statement of Comprehensive Income [Abstract] Statement of Comprehensive Income [Abstract] Total cash equivalents Cash Equivalents, at Carrying Value Cash used in investing activities Net Cash Provided by (Used in) Investing Activities Income Tax Jurisdiction [Axis] Income Tax Jurisdiction [Axis] Audit Information [Abstract] Audit Information [Abstract] Gross unrealized gains on short-term and long-term investments Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Accumulated Gross Unrealized Gain Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Accumulated Gross Unrealized Gain Other Other Operating Activities, Cash Flow Statement All Adjustments to Compensation All Adjustments to Compensation [Member] Compensation and employee benefits Employee-related Liabilities, Current Balance Sheet Detail [Abstract] Balance Sheet Detail Short-Term Debt, Type [Domain] Short-Term Debt, Type [Domain] Maximum potential amount of future payments for letters of credit or other guarantee instruments Guarantor Obligations, Maximum Exposure, Undiscounted Severance and related charges Severance and related charges Restructuring Charges Accumulated Other Comprehensive Income (Loss) [Line Items] Accumulated Other Comprehensive Income (Loss) [Line Items] Tax Credit Carryforward [Axis] Tax Credit Carryforward [Axis] Commitments and Contingencies Disclosure [Abstract] Commitments and Contingencies Disclosure [Abstract] Common stock: $0.01Â par value per share; 2,500 shares authorized; 818 and 833 shares outstanding at 2024 and 2023, respectively Common Stock, Value, Outstanding Expected timing of satisfaction Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period Unrealized Gain (Loss) on Derivative Instruments Qualifying as Cash Flow Hedges Accumulated Gain (Loss), Net, Cash Flow Hedge, Parent [Member] Corporate Alternative Minimum Tax Deferred Tax Assets, Tax Credit Carryforwards, Alternative Minimum Tax Long-term Debt, Type [Domain] Long-Term Debt, Type [Domain] Entity Address, State or Province Entity Address, State or Province Derivative Instruments and Hedging Activities Disclosure [Abstract] Derivative Instruments and Hedging Activities Disclosure [Abstract] Erroneous Compensation Analysis Erroneous Compensation Analysis [Text Block] Display Display [Member] Display and Adjacent Markets [Member] Defined Benefit Plan Disclosure [Line Items] Defined Benefit Plan Disclosure [Line Items] Change in accounting estimate, useful life Service Life [Member] Financial Instruments [Domain] Financial Instruments [Domain] Beginning balance (in dollars per share) Ending balance (in dollars per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value LIABILITIES AND STOCKHOLDERSâ€™ EQUITY Liabilities and Equity [Abstract] Performance of total shareholder return Employee Service Share-based Compensation, Nonvested Awards, Performance Of Total Shareholder Return, Percent Employee Service Share-based Compensation, Nonvested Awards, Performance Of Total Shareholder Return, Percent Restatement Determination Date Restatement Determination Date Allowance for doubtful accounts Deferred Tax Asset, Tax Deferred Expense, Reserve and Accrual, Accounts Receivable, Allowance for Credit Loss Cost of stock repurchased (excluding excise tax) Treasury Stock Value, Acquired, Cost Method Excluding Excise Tax Treasury Stock Value, Acquired, Cost Method Excluding Excise Tax Estimate of Fair Value Measurement Estimate of Fair Value Measurement [Member] Increases SEC Schedule, 12-09, Valuation Allowances and Reserves, Additions, Charge to Cost and Expense Pay vs

Performance Disclosure Pay vs Performance Disclosure [Table] Schedule of Property, Plant and Equipment [Table] Property, Plant and Equipment [Table] Operating lease right-of-use assets Operating Lease, Right-of-Use Asset Erroneously Awarded Compensation Recovery Erroneously Awarded Compensation Recovery [Table] Options outstanding (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Number Applied Global Services Applied Global Services [Member] Applied Global Services. 3.900% Senior Notes Due 2025 Three Point Nine Zero Percent Unsecured Senior Notes Due 2025 Interest Payable April 1 And October 1 [Member] Three Point Nine Zero Percent Unsecured Senior Notes Due 2025 Interest Payable April 1 And October 1 [Member] Short-Term Debt, Type [Axis] Short-Term Debt, Type [Axis] Dividends payable Dividends Payable, Current 4.800% Senior Notes Due 2029 Four Point Eight Zero Percent Unsecured Senior Notes Due 2029 Interest Payable June 15, December 15 [Member] Four Point Eight Zero Percent Unsecured Senior Notes Due 2029 Interest Payable June 15, December 15 Earnings Per Share Earnings Per Share [Text Block] Schedule of Employee Stock Purchase Plan Schedule of Share-Based Payment Award, Employee Stock Purchase Plan, Valuation Assumptions [Table Text Block] Granted (in dollars per share) Weighted average grant date fair value per share of awards granted (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period, Weighted Average Grant Date Fair Value Income Taxes Income Tax, Policy [Policy Text Block] Peer Group Issuers, Footnote Peer Group Issuers, Footnote [Text Block] Segments [Domain] Segments [Domain] Deferred cost of sales Inventory, Finished Goods, Deferred Cost of Sales, Net of Reserves Inventory, Finished Goods, Deferred Cost of Sales, Net of Reserves Unrecognized Tax Benefits [Roll Forward] Unrecognized Tax Benefits [Roll Forward] 5.850% Senior Notes Due 2041 Five Point Eight Five Zero Percent Unsecured Senior Notes Due2041 Interest Payable June15 And December15 [Member] Five Point Eight Five Zero Percent Unsecured Senior Notes Due 2041, Interest Payable June 15 and December 15 [Member] PEO PEO [Member] Name Trading Arrangement, Individual Name Property, Plant and Equipment by Type [Axis] Long-Lived Tangible Asset [Axis] Time period over which majority of after tax gain loss related to derivatives to be reclassified into earnings Derivative Instruments, Gain (Loss) Reclassification from Accumulated OCI to Income, Estimate of Time to Transfer Entity Public Float Entity Public Float Tax holiday benefit per diluted share (in dollars per share) Income Tax Holiday, Income Tax Benefits Per Share Treasury stock: 1,211 and 1,191 shares at 2024 and 2023, respectively Treasury Stock, Common, Value Guarantees, Commitments and Contingencies Commitments Contingencies and Guarantees [Text Block] 1.750% Senior Notes Due 2030 One Point Seventy Five Percent Unsecured Senior Notes Due 2030 Interest Payable June 1 And December 1 [Member] One Point Seventy Five Percent Unsecured Senior Notes Due 2030 Interest Payable June 1 And December 1 Awards Close in Time to MNPI Disclosures, Table Awards Close in Time to MNPI Disclosures [Table Text Block] Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year [Member] Reduction in unrecognized tax benefits (up to) Decrease in Unrecognized Tax Benefits is Reasonably Possible Aggregate Erroneous Compensation Amount Aggregate Erroneous Compensation Amount Local Phone Number Local Phone Number Valuation allowance Deferred Tax Assets, Valuation Allowance Aggregate Erroneous Compensation Not Yet Determined Aggregate Erroneous Compensation Not Yet Determined [Text Block] Foreign Line of Credit Foreign Line of Credit [Member] Total operating expenses Operating Expenses Type of Deferred Compensation, All Types [Domain] Deferred Bonus and Profit Sharing Arrangement, Individual Contract, Type of Deferred Compensation [Domain] Change in Accounting Estimate by Type [Axis] Change in Accounting Estimate by Type [Axis] Changes in operating assets and liabilities, net of amounts acquired: Increase (Decrease) in Operating Capital [Abstract] Time period for hedging of foreign currency transactions Maximum Length of Time, Foreign Currency Cash Flow Hedge PEO Total Compensation Amount PEO Total Compensation Amount Purchase price of common stock, percent Share-Based Compensation Arrangement by Share-Based Payment Award, Purchase Price of Common Stock, Percent Equity investments cost Equity Securities, FV-NI, Cost Property, Plant and Equipment, Type [Domain] Long-Lived Tangible Asset [Domain] Statement of Income Location, Balance [Axis] Statement of Income Location, Balance [Axis] Expected to vest, aggregate intrinsic value Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options, Vested And Expected To Vest, Aggregate Intrinsic Value Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested and Expected To Vest Aggregate Intrinsic Value. Non-vested restricted stock units, restricted stock, performance shares units and performance units expected to vest (in dollars per share) Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested And Expected To Vest Fair Value Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested and Expected to Vest Fair Value. Debt Disclosure [Abstract] Debt Disclosure [Abstract] Common Stock Common Stock [Member] Forgone Recovery due to Expense of Enforcement, Amount Forgone Recovery due to Expense of Enforcement, Amount Charges to expense under Employee bonus plans Defined Bonus Plan Cost Recognized Defined bonus plan cost recognized. Amounts payable under EDCP Deferred Compensation Liability, Classified, Noncurrent Segment Reporting [Abstract] Segment Reporting [Abstract] Entity Central Index Key Entity Central Index Key General and administrative General and Administrative Expense [Member] Schedule of Inventories Schedule of Inventory, Current [Table Text Block] Interest and penalties related to uncertain tax positions Unrecognized Tax Benefits, Income Tax Penalties and Interest Accrued Cumulative Translation Adjustments Accumulated Foreign Currency Adjustment Attributable to Parent [Member] Non-PEO NEO Average Compensation Actually Paid Amount Non-PEO NEO Average Compensation Actually Paid Amount Accounts payable and accrued expenses Increase (Decrease) in Accounts Payable and Accrued Liabilities Award Timing, How MNPI Considered Award Timing, How MNPI Considered [Text Block] Financial Instrument [Axis] Financial Instrument [Axis] Current portion of long-term debt Long-Term Debt, Current Maturities Industry Segment Operations Segment Reporting Disclosure [Text Block] Share-based compensation APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Lease liability Deferred Tax Assets, Lease Liability Deferred Tax Assets, Lease Liability Measurement Basis [Axis] Measurement Basis [Axis] Restricted cash equivalents included in deferred income taxes and other assets Restricted Cash Equivalents Title Trading Arrangement, Individual Title Unsecured Debt Unsecured Debt [Member] Components of income from operations before income taxes Schedule of Income before Income Tax, Domestic and Foreign [Table Text Block] Beginning balance of gross unrecognized tax benefits Ending balance of gross unrecognized tax benefits Unrecognized Tax Benefits City Area Code City Area Code Current liabilities: Liabilities, Current [Abstract] Auditor Location Auditor Location Accrued liabilities Deferred Tax Assets, Tax Deferred Expense, Reserves and Accruals, Accrued Liabilities Insider Trading Policies and Procedures Not Adopted Insider Trading Policies and Procedures Not Adopted [Text Block] Common stock repurchases Payments for Repurchase of Common Stock Valuation Allowance of Deferred Tax Assets SEC Schedule, 12-09, Valuation Allowance, Deferred Tax Asset [Member] Undistributed foreign earnings Deferred Tax Liabilities, Undistributed Foreign Earnings Long-term debt Total long-term debt Long-Term Debt, Excluding Current Maturities Schedule of Segment Reporting Information, by Segment [Table] Schedule of Segment Reporting Information, by Segment [Table] SEC Schedule, 12-09, Valuation and Qualifying Accounts Disclosure [Table] SEC Schedule, 12-09, Valuation and Qualifying Accounts Disclosure [Table] Weighted Average GrantÂ Date Fair Value Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Weighted Average Grant Date Fair Value [Abstract] Equity investments and equity securities without readily determinable, cost Equity Securities, FV-NI And Without Readily Determinable Fair Value, Cost Equity Securities, FV-NI And Without Readily Determinable Fair Value, Cost Municipal securities Municipal Notes [Member] Percent of performance obligation recognized Revenue, Remaining Performance Obligation, Percentage Summary of Significant Accounting Policies and Recently Adopted Accounting Standards Organization, Consolidation and Presentation of Financial Statements Disclosure and Significant Accounting Policies [Text Block] Earnings per share: Earnings Per Share [Abstract] Earnings Per Share [Abstract] Equity [Abstract] Equity [Abstract] Raw materials Inventory, Raw Materials, Net of Reserves Retained earnings Retained Earnings (Accumulated Deficit) Finance Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration] Finance Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration] Inventories Increase (Decrease) in Inventories Aggregate intrinsic value Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options, Intrinsic Value Share based compensation arrangement by share based payment award equity instruments other than options intrinsic value. General and administrative General and Administrative Expense Non-U.S. government securities Debt Security, Government, Non-US [Member] Aggregate Available Trading Arrangement, Securities Aggregate Available Amount Equity Awards Adjustments Equity Awards Adjustments [Member] Underlying Securities Award Underlying Securities Amount Performance Shares/Performance Units Performance Shares [Member] Dividends declared Dividends, Common Stock, Cash Amendment Flag Amendment Flag Realized gain on sales and dividends Equity Securities without Readily Determinable Fair Value, Realized Gain Equity Securities without Readily Determinable Fair Value, Realized Gain Stock Appreciation Rights (SARs) Stock Appreciation Rights (SARs) [Member] Demonstration and manufacturing equipment Machinery and Equipment [Member] Total unamortized debt issuance costs Debt Issuance Costs, Net Due in one year or less, cost Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, Year One Borrowing Facilities and Debt Debt Disclosure [Text Block] Fair Value Hierarchy and NAV [Domain] Fair Value Hierarchy and NAV [Domain] Recovery of Erroneously Awarded Compensation Disclosure [Line Items] Debt instrument, face amount Debt Instrument, Face Amount Entity Address, Postal Zip Code Entity Address, Postal Zip Code Unrealized loss Equity Securities, FV-NI, Unrealized Loss Standard product warranty period Product Warranty Obligation, Term Cash, cash equivalents and investments, estimated fair value Cash Cash Equivalents and Investments Estimated Fair Value Cash Cash Equivalents and Investments Estimated Fair Value. Cash and cash equivalents Total cash and cash equivalents Cash and Cash Equivalents, at Carrying Value Purchase period Employee Stock Purchase Plan (ESPP), Purchase Period Employee Stock Purchase Plan (ESPP), Purchase Period Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member] Auditor Name Auditor Name Tax effects on net income of amounts reclassified from AOCI Reclassification from AOCI, Current Period, Tax Canceled (in dollars per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeitures, Weighted Average Grant Date Fair Value Current: Current Income Tax Expense (Benefit), Continuing Operations [Abstract] Assets and Liabilities without Readily Determinable Values Measured on a Non-recurring Basis Equity Securities without Readily Determinable Fair Value [Policy Text Block] Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested [Member] Useful life UsefulÂ Life Property, Plant and Equipment, Useful Life Employee Stock Employee Stock [Member] Depreciation and amortization Deprecation/Amortization Depreciation, Depletion and Amortization, Nonproduction Fair Value Measurement [Domain] Fair Value Measurement [Domain] Adjustment To PEO Compensation, Footnote Adjustment To PEO Compensation, Footnote [Text Block] Deferred revenue Deferred Tax Assets, Deferred Income Repayments of principals on finance leases Finance Lease, Principal Payments Weighted average remaining contractual term Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Outstanding, Weighted Average Remaining Contractual Terms Government Assistance Government Assistance [Policy Text Block] Compensation Actually Paid vs. Other Measure Compensation Actually Paid vs. Other Measure [Text Block] Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year [Member] Weighted average number of shares: Denominator: Weighted Average Number of Shares Outstanding, Diluted [Abstract] Total assets Assets Cost of products sold Cost of Goods and Services Sold Prepaid income taxes and income taxes receivable Income Taxes Receivable, Current Cash and Cash Equivalents [Abstract] Cash and Cash Equivalents [Abstract] Capital expenditures Payments to Acquire Property, Plant, and Equipment Other liabilities Total other liabilities Other Liabilities, Noncurrent Forgone Recovery due to Violation of Home Country Law, Amount Forgone Recovery due to Violation of Home Country Law, Amount Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Derivative Instruments and Hedging Activities Disclosures [Table] Derivative Instruments and Hedging Activities Disclosures [Table] Commitments and contingencies (Note 13) Commitments and Contingencies Share-based Compensation Share-Based Payment Arrangement [Policy Text Block] 5.100% Senior Notes Due 2035 Five Point One Zero Zero Percent Unsecured Senior Notes Due 2035 Interest Payable April 1 And October 1 [Member] Five Point One Zero Zero Percent Unsecured Senior Notes Due 2035 Interest Payable April 1 And October 1 [Member] Effective income tax rate reconciliation Schedule of Effective Income Tax Rate Reconciliation [Table Text Block] Termination Date Trading Arrangement Termination Date Samsung Electronics Co., Ltd. Samsung Electronics Co., Ltd. [Member] Samsung Electronics Co., Ltd. [Member] Publicly traded equity securities Equity Securities, FV-NI, Gain (Loss) [Abstract] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Total short-term and long-term investments Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value Deferred tax assets: Deferred Tax Assets, Gross [Abstract] Due after one through five years, estimated fair value Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year One Through Five Debt Instrument [Axis] Debt Instrument [Axis] Net income Net income Net Income (Loss) Attributable to Parent Trading Arrangement: Trading Arrangement [Axis] Pay vs Performance Disclosure, Table Pay vs Performance [Table Text Block] Equity Awards Adjustments, Excluding Value Reported in Compensation Table Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member] Entity File Number Entity File Number Income Statement [Abstract] Income Statement [Abstract] Entity Address, Address Line One Entity Address, Address Line One U.S. Current Federal Tax Expense (Benefit) Entity Address, Address Line Two Entity Address, Address Line Two Name Forgone Recovery, Individual Name Employee Benefit Plans Compensation and Employee Benefit Plans, Other than Share-Based Compensation [Text Block] Deferred income taxes Increase (Decrease) in Deferred Income Taxes Investments Investment, Policy [Policy Text Block] Award Timing MNPI Considered Award Timing MNPI Considered [Flag] Realized gain on sales and dividends Equity Securities, FV-NI, Realized Gain Line of Credit Facility [Line Items] Line of Credit Facility [Line Items] Decreases in tax positions for prior years Unrecognized Tax Benefits, Decrease Resulting from Prior Period Tax Positions Contract assets Contract with Customer, Asset, after Allowance for Credit Loss Outstanding Aggregate Erroneous Compensation Amount Outstanding Aggregate Erroneous Compensation Amount Land improvements Land Improvements [Member] PEO Actually Paid Compensation Amount PEO Actually Paid Compensation Amount Adjustment to Compensation: Adjustment to Compensation [Axis] Due after one through five years, cost Debt Securities, Available-for-Sale, Amortized Cost, Maturity, Allocated and Single Maturity Date, after Year One Through Five No single maturity date, cost Equity And Debt Securities, Maturity, Without Single Maturity Date, Amortized Cost Equity And Debt Securities, Maturity, Without Single Maturity Date, Amortized Cost Change in defined and postretirement benefit plans Other Comprehensive (Income) Loss, Defined Benefit Plan, after Tax and Reclassification Adjustment, Attributable to Parent Accumulated other comprehensive loss Accumulated Other Comprehensive Income (Loss), Net of Tax Southeast Asia Southeast Asia [Member] Southeast Asia. Resolutions of prior yearsâ€™ income tax filings Effective Income Tax Rate Reconciliation, Prior Year Income Taxes, Percent Pension Adjustments Service Cost Pension Adjustments Service Cost [Member] Basic (in shares) Weighted average common shares outstanding (in shares) Weighted Average Number of Shares Outstanding, Basic Stock Price or TSR Estimation Method Stock Price or TSR Estimation Method [Text Block] Name Awards Close in Time to MNPI Disclosures, Individual Name Construction in progress Construction in Progress [Member] Contract with Customer, Duration [Axis] Contract with Customer, Duration [Axis] Net sales Revenue Benchmark [Member] Entity Filer Category Entity Filer Category Contract assets, credit losses Contract with Customer, Asset, Credit Loss Expense (Reversal) Remaining performance obligation Revenue, Remaining Performance Obligation, Amount Foreign statutory income tax rate Effective Income Tax Rate Reconciliation, At Foreign Statutory Income Tax Rate, Percent Effective Income Tax Rate Reconciliation, At Foreign Statutory Income Tax Rate, Percent Statistical Measurement [Domain] Statistical Measurement [Domain] Capital Expenditures Segment, Expenditure, Addition to Long-Lived Assets Gross unrealized losses on fixed income securities Debt Securities, Available-for-Sale, Accumulated Gross Unrealized Loss, before Tax Schedule of Deferred Income Taxes and Other Assets Deferred Costs, Capitalized, Prepaid, and Other Assets Disclosure [Table Text Block] Schedule of Cash, Cash Equivalents and Investments Cash, Cash Equivalents and Investments [Table Text Block] Realized loss on sales or impairment Equity Securities, FV-NI, Realized Loss Unrecognized tax benefits that would impact effective tax rate Unrecognized Tax Benefits that Would Impact Effective Tax Rate Employee Stock Incentive Plan Employee Stock Incentive Plan [Member] Employee Stock

Incentive Plan [Member] Segment Reporting Information [Line Items] Segment Reporting Information [Line Items] RSUs and Performance Shares Subject to Performance Goals RSUs And Performance Shares Subject To Performance Goals [Member] RSUs And Performance Shares Subject To Performance Goals All Trading Arrangements All Trading Arrangements [Member] Compensation Actually Paid vs. Net Income Compensation Actually Paid vs. Net Income [Text Block] Schedule Of Earnings Per Share Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] Award vesting period Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period Tax credit carryforwards Tax Credit Carryforward, Amount Rule 10b5-1 Arrangement Adopted Rule 10b5-1 Arrangement Adopted [Flag] Parent guarantees to banks Guarantor Obligations, Parent Guarantees Made To Banks Guarantor Obligations, Parent Guarantees Made to Banks. Awards Close in Time to MNPI Disclosures Awards Close in Time to MNPI Disclosures [Table] Valuation allowance [Line Items] SEC Schedule, 12-09, Valuation and Qualifying Accounts Disclosure [Line Items] Pay vs Performance Disclosure [Line Items] Peer Group Total Shareholder Return Amount Peer Group Total Shareholder Return Amount Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Schedule of Other Liabilities Other Liabilities [Table Text Block] Carried over the next fifteen years Research, Carried Over The Next Fifteen Years [Member] Research, Carried Over The Next Fifteen Years [Member] Deferred: Deferred Income Tax Expense (Benefit), Continuing Operations [Abstract] Other Performance Measure, Amount Other Performance Measure, Amount Research and development tax credit carryforwards Research Tax Credit Carryforward [Member] Common stock, shares outstanding (in shares) Beginning Balance (in shares) Ending Balance (in shares) Common Stock, Shares, Outstanding Documents Incorporated by Reference Documents Incorporated by Reference [Text Block] Unrealized gain Equity Securities without Readily Determinable Fair Value, Unrealized Gain Equity Securities without Readily Determinable Fair Value, Unrealized Gain Number of shares available for grant Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Available for Grant Operating lease liabilities, non-current Operating Lease, Liability, Noncurrent Contract liabilities Contract with Customer, Liability, Current Research, Development and Engineering Costs Research, Development, and Computer Software, Policy [Policy Text Block] Entity Tax Identification Number Entity Tax Identification Number Intangible Asset, Finite-Lived [Table] Intangible Asset, Finite-Lived [Table] Schedule of Debt Outstanding Schedule of Long-Term Debt Instruments [Table Text Block] Increases in tax positions for prior years Unrecognized Tax Benefits, Increase Resulting from Prior Period Tax Positions Common stock repurchases, (in shares) Shares of common stock repurchased (in shares) Treasury Stock, Shares, Acquired Foreign Deferred Foreign Income Tax Expense (Benefit) Accounts Receivable, Net Loans, Notes, Trade and Other Receivables Disclosure [Text Block] Money market funds Money market funds Money Market Funds [Member] Treasury Stock Treasury Stock, Common [Member] Plan Name [Axis] Plan Name [Axis] Equity Components [Axis] Equity Components [Axis] Other current assets Total other current assets Other Assets, Current Estimated fair value of fixed income securities Available-for-sale debt security investments Debt Securities, Available-for-Sale Accounts Receivable, Net Accounts Receivable [Policy Text Block] Term of amortization Term Of Amortization Term of amortization. Unallocated cost of products sold and expenses Costs and Expenses Semiconductor Systems Semiconductor Systems [Member] Semiconductor Systems [Member] Debt securities, held-to-maturity, threshold period past due Debt Securities, Held-to-Maturity, Threshold Period Past Due Geographical [Axis] Geographical [Axis] Net deferred tax assets Deferred Tax Assets, Net Marketing and selling Selling and Marketing Expense [Member] Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table [Member] Number of shares issued under the ESPP (in shares) Stock Issued During Period, Shares, Employee Stock Purchase Plans Income taxes payable Accrued Income Taxes, Noncurrent Cash, cash equivalents and restricted cash equivalentsÂ â€" beginning of period Cash, cash equivalents and restricted cash equivalentsÂ â€" end of period Total cash, cash equivalents, and restricted cash equivalents Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Debt, weighted average interest rate Debt, Weighted Average Interest Rate Total unrecognized compensation expense Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Amount Foreign Current Foreign Tax Expense (Benefit) Current assets: Assets, Current [Abstract] Consolidation Items [Axis] Consolidation Items [Axis] 4.350% Senior Notes Due 2047 Four Point Three Five Zero Percent Unsecured Senior Notes Due 2047 Interest Payable April 1 And October 1 [Member] Four Point Three Five Zero Percent Unsecured Senior Notes Due 2047 Interest Payable April 1 And October 1 [Member] Treasury stock (in shares) Treasury stock, beginning balance (in shares) Treasury stock, ending balance (in shares) Treasury Stock, Common, Shares Forgone Recovery due to Disqualification of Tax Benefits, Amount Forgone Recovery due to Disqualification of Tax Benefits, Amount Expected to vest, weighted average remaining contractual term Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested And Expected To Vest Weighted Average Remaining Contractual Term Share Based Compensation Arrangement By Share Based Payment Award Equity Instruments Other Than Options Vested and Expected To Vest Weighted Average Remaining Contractual Term. Additional performance-based awards to be earned upon certain levels of achievement (in shares) Additional Performance-based Awards To Be Earned Upon Certain Levels Of Achievement Additional performance-based awards to be earned, upon certain levels of achievement. Product and Service [Domain] Product and Service [Domain] Award measurement period Share-based Compensation Arrangement by Share-based Payment Award, Award Measurement Period Share-based Compensation Arrangement by Share-based Payment Award, Award Measurement Period Vested (in dollars per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period, Weighted Average Grant Date Fair Value Fair Value Disclosures [Abstract] Fair Value Disclosures [Abstract] Increase in useful life Property, Plant And Equipment, Increase In Useful Life Property, Plant And Equipment, Increase In Useful Life Security Exchange Name Security Exchange Name Shares Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number of Shares [Roll Forward] Accordion feature, higher borrowing capacity option Line of Credit Facility, Accordion Feature, Higher Borrowing Capacity Option Line of Credit Facility, Accordion Feature, Higher Borrowing Capacity Option State Current State and Local Tax Expense (Benefit) Short-term debt Short-Term Debt Forgone Recovery, Explanation of Impracticability Forgone Recovery, Explanation of Impracticability [Text Block] Research, development and engineering Research and Development Expense Income taxes payable Increase (Decrease) in Income Taxes Payable Government Assistance, Liability, Decrease, Statement of Financial Position [Extensible Enumeration] Government Assistance, Liability, Decrease, Statement of Financial Position [Extensible Enumeration] Percentage of net sales Concentration Risk, Percentage Available revolving credit agreement Line of Credit Facility, Maximum Borrowing Capacity Insider Trading Policies and Procedures Adopted Insider Trading Policies and Procedures Adopted [Flag] Accumulated depreciation Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Cash Cash Equity [Line Items] Equity [Line Items] [Line Items] for Equity [Table] Total gain (loss) on equity investments, net Equity Securities, FV-NI And Equity Securities without Readily Determinable Fair Value, Gain (Loss) Equity Securities, FV-NI And Equity Securities without Readily Determinable Fair Value, Gain (Loss) Europe Europe [Member] Common stock, shares authorized (in shares) Common Stock, Shares Authorized Cash, Cash Equivalents and Investments Investments in Debt and Equity Instruments, Cash and Cash Equivalents, Unrealized and Realized Gains (Losses) [Text Block] Cash paid for acquisitions, net of cash acquired Payments to Acquire Businesses, Net of Cash Acquired 2.750% Senior Notes Due 2050 Two Point Seventy Five Percent Unsecured Senior Notes Due 2050 Interest Payable June 1 And December 1 [Member] Two Point Seventy Five Percent Unsecured Senior Notes Due 2050 Interest Payable June 1 And December 1 Intangible assets Deferred Tax Assets, Goodwill and Intangible Assets Other comprehensive income (loss), net of tax: Other Comprehensive Income (Loss), Net of Tax, Portion Attributable to Parent [Abstract] Severance and related charges Restructuring Costs Long-term Debt, Type [Axis] Long-Term Debt, Type [Axis] Entity Voluntary Filers Entity Voluntary Filers Accounts Payable and Accrued Expenses Accounts Payable and Accrued Liabilities, Current [Abstract] Statement of Financial Position Location, Balance [Axis] Statement of Financial Position Location, Balance [Axis] Interest expense Interest Expense, Nonoperating Total deferred provision (benefit) for income taxes Deferred Income Tax Expense (Benefit) Other comprehensive income (loss), net of tax Other comprehensive income (loss), net of tax Other Comprehensive Income (Loss), Net of Tax, Portion Attributable to Parent Recurring Fair Value Measurements Fair Value, Recurring [Member] Accounts receivable, net Accounts Receivable Accounts Receivable, after Allowance for Credit Loss, Current Options granted (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross Revenues from External Customers and Long-Lived Assets [Line Items] Revenues from External Customers and Long-Lived Assets [Line Items] Other liabilities Increase (Decrease) in Other Operating Liabilities Pension Adjustments Prior Service Cost Pension Adjustments Prior Service Cost [Member] Equity [Table] Equity [Table] Equity [Table] Commercial Paper Commercial Paper [Member] Pension Benefits Adjustments, Footnote Pension Benefits Adjustments, Footnote [Text Block] Total Shareholder Return Vs Peer Group Total Shareholder Return Vs Peer Group [Text Block] Average price paid per share (including excise tax) (in dollars per share) Shares Acquired, Average Cost Per Share Document Annual Report Document Annual Report Vested (shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Vested in Period Risk-free interest rate Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate Contract liabilities Contract with Customer, Liability Changes in allowance for doubtful accounts SEC Schedule, 12-09, Movement in Valuation Allowances and Reserves [Roll Forward] Accounting Policies [Abstract] Accounting Policies [Abstract] Total unamortized discount Debt Instrument, Unamortized Discount Leasehold improvements Leasehold Improvements [Member] Fair Value Measurements Fair Value Measurement, Policy [Policy Text Block] Current Fiscal Year End Date Current Fiscal Year End Date Beginning balance Ending balance SEC Schedule, 12-09, Valuation Allowances and Reserves, Amount Short-term investments Short-Term Investments PEO Name PEO Name Weighted average exercise price (in dollars per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Outstanding, Period Increase (Decrease), Weighted Average Exercise Price Award Type [Domain] Award Type [Domain] Net issuance under stock plans (in shares) Shares Issued, Shares, Share-Based Payment Arrangement, after Forfeiture Share-based compensation Deferred Tax Assets, Tax Deferred Expense, Compensation and Benefits, Share-Based Compensation Cost Compensation Actually Paid vs. Company Selected Measure Compensation Actually Paid vs. Company Selected Measure [Text Block] Defined and postretirement benefit plans Liability, Defined Benefit Plan, Noncurrent Non-current deferred income taxes Deferred Income Tax Assets, Net Equity investments and equity securities without readily determinable, gross unrealized gains Equity Securities, FV-NI And Without Readily Determinable Fair Value, Gross Unrealized Gain Equity Securities, FV-NI And Without Readily Determinable Fair Value, Gross Unrealized Gain Non-PEO NEO Non-PEO NEO [Member] Intangible assets estimated useful lives Finite-Lived Intangible Asset, Useful Life Estimated fair value of short-term and long-term investments Investments, Fair Value Disclosure Other comprehensive income (loss) before reclassifications OCI, before Reclassifications, Net of Tax, Attributable to Parent Additional Paid-In Capital Additional Paid-in Capital [Member] Installation and warranty reserves Deferred Tax Assets, Tax Deferred Expense, Reserves And Accruals, Warranty Reserves And Installation Deferred Tax Assets, Tax Deferred Expense, Reserves And Accruals, Warranty Reserves And Installation Recently Adopted Accounting Standards New Accounting Pronouncements, Policy [Policy Text Block] Dynamic random-access memory (DRAM) Dynamic Random-Access Memory [Member] Dynamic Random-Access Memory Warranty Standard Product Warranty, Policy [Policy Text Block] Number of unfunded plans Deferred Compensation, Number Of Unfunded Plans Deferred Compensation, Number Of Unfunded Plans Name Measure Name Entity Interactive Data Current Entity Interactive Data Current Cash payments for income taxes Income Taxes Paid Cash, cash equivalents and investments, cost Cash Cash Equivalents and Investments Cost Cash Cash Equivalents and Investments Cost. Schedule of Financial Assets Measured at Fair Value on a Recurring Basis Schedule of Fair Value, Assets and Liabilities Measured on Recurring Basis [Table Text Block] China CHINA Equity investments in privately held companies Equity Securities, FV-NI and without Readily Determinable Fair Value [Abstract] Schedule of Companies Accounted for at Least 10 Percent of Net Sales Schedule of Revenue by Major Customers by Reporting Segments [Table Text Block] Share-based compensation Share-Based Payment Arrangement, Noncash Expense Total deferred tax assets Deferred Tax Assets, Net of Valuation Allowance Equity investments and equity securities without readily determinable, fair value Equity Securities, FV-NI and without Readily Determinable Fair Value Defined and Postretirement Benefit Plans Accumulated Defined Benefit Plans Adjustment Attributable to Parent [Member] Cash, cash equivalents and investments, gross unrealized losses Cash, Cash Equivalents, And Investments, Accumulated Gross Unrealized Loss, Before Tax Cash, Cash Equivalents, And Investments, Accumulated Gross Unrealized Loss, Before Tax Stated interest rate Debt Instrument, Interest Rate, Stated Percentage Total fair value of vested awards Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Aggregate Intrinsic Value, Vested Supplemental cash flow information: Supplemental Cash Flow Information [Abstract] Equity investments estimated fair value Equity investments with readily determinable values Equity Securities, FV-NI Unrecognized tax benefits, decrease resulting from settlements with taxing authorities Settlements with tax authorities Unrecognized Tax Benefits, Decrease Resulting from Settlements with Taxing Authorities Concentration Risk Benchmark [Domain] Concentration Risk Benchmark [Domain] Auditor Firm ID Auditor Firm ID Total Effective Income Tax Rate Reconciliation, Percent Income from operations Operating Income (Loss) Operating Income (Loss) Corporate and Other Corporate and Other Corporate And Reconciling Items [Member] Corporate And Reconciling Items [Member] Number of reportable segments Number of Reportable Segments Total liabilities and stockholdersâ€™ equity Liabilities and Equity Rule 10b5-1 Arrangement Terminated Rule 10b5-1 Arrangement Terminated [Flag] Fair Value Hierarchy and NAV [Axis] Fair Value Hierarchy and NAV [Axis] Contractual maturities of investments [Abstract] Contractual maturities of investments [Abstract] Contractual maturities of investments Derivative Instruments and Hedging Activities Derivative Instruments and Hedging Activities Disclosure [Text Block] Payments of dividends to stockholders Payments of dividends to stockholders Payments of Dividends Equity securities, gross unrealized losses Equity Securities, FV-NI, Accumulated Unrealized Loss Equity Securities, FV-NI, Accumulated Unrealized Loss Schedule of Changes in Restricted Stock Units, Restricted Stock, Performance Shares and Performance Units Share-Based Payment Arrangement, Restricted Stock and Restricted Stock Unit, Activity [Table Text Block] Underlying Security Market Price Change Underlying Security Market Price Change, Percent Tax Credit Carryforward, Name [Domain] Tax Credit Carryforward, Name [Domain] Individual: Individual [Axis] Buildings and improvements Building and Building Improvements [Member] Accumulated Other Comprehensive Income (Loss) AOCI Attributable to Parent AOCI Attributable to Parent [Member] Expected life (in years) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term Inventories Total inventories Inventories Inventory, Net Manufactured on-hand inventory Inventory, Finished Goods, Manufactured On-hand Inventory, Net of Reserves Inventory, Finished Goods, Manufactured on-hand Inventory, Net of Reserves Product and Service [Axis] Product and Service [Axis] Property, Plant and Equipment [Line Items] Property, Plant and Equipment [Line Items] Statement [Line Items] Statement [Line Items] Schedule of Reconciliations of Total Segment Operating Income to Consolidated Operating Income (Loss) Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table Text Block] Operating expenses: Operating Expenses [Abstract] Schedule of Property, Plant and Equipment, Net Property, Plant and Equipment [Table Text Block] Compensation Actually Paid vs. Total Shareholder Return Compensation Actually Paid vs. Total Shareholder Return [Text Block] Derivative Financial Instruments Derivatives, Policy [Policy Text Block] Minimum Minimum [Member] Adoption Date Trading Arrangement Adoption Date Discounted letters of credit Accounts Receivable, Discount Letters Of Credit Issued During Period Accounts Receivable, Discount Letters Of Credit Issued During Period Treasury Stock Treasury Stock, Policy [Policy Text Block] Treasury Stock, Policy [Policy Text Block] Award vesting rights as percentage of target amount Share-based Compensation Arrangement By Share-based Payment Award, Award Vesting Rights, Percentage Of Target Amount Share-based Compensation Arrangement By Share-based Payment Award, Award Vesting Rights, Percentage Of Target Amount Accounts receivable, credit losses Accounts Receivable, Credit Loss Expense (Reversal) Segments [Axis] Segments [Axis] Government assistance, operating expense, decrease Government Assistance, Operating Expense, Decrease (Increase) Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member] Tax provision at U.S. statutory rate Effective Income Tax Rate Reconciliation, at Federal Statutory Income Tax Rate, Percent Derivative Instrument [Axis] Derivative Instrument [Axis] Schedule of Other Current Assets Schedule of Other Current Assets [Table Text Block] Government assistance, liability, decrease Government Assistance, Liability, Decrease Long-term debt principal amount Long-term debt, principal amount Long-Term Debt, Gross Exercise Price Award Exercise Price Deferred income taxes and other assets Deferred income taxes and other assets Deferred Income Taxes and Other Assets, Noncurrent Components of deferred income tax assets and liabilities Schedule of Deferred Tax Assets and Liabilities [Table Text Block] Restricted Stock Units, Restricted Stock,

Performance Shares Units and Performance Units Restricted Stock Units, Restricted Stock, Performance Shares Units and Performance Units [Member] Restricted Stock Units, Restricted Stock, Performance Shares and Performance Units [Member] Arrangement Duration Trading Arrangement Duration Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table] Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table] Stockholdersâ€™ equity: Equity, Attributable to Parent [Abstract] Bank certificates of deposit and time deposits Bank Certificates Of Deposit And Time Deposits [Member] Bank Certificates Of Deposit And Time Deposits Weighted Average Remaining ContractualÂ Term Contractual Term [Abstract] Contractual Term Abstract. Long-term investments Long-Term Investments Long-term Contract with Customer Long-Term Contract with Customer [Member] 3.300% Senior Notes Due 2027 Three Point Three Zero Zero Percent Unsecured Senior Notes Due 2027 Interest Payable April 1 And October 1 [Member] Three Point Three Zero Zero Percent Unsecured Senior Notes Due 2027 Interest Payable April 1 And October 1 [Member] Material Terms of Trading Arrangement Material Terms of Trading Arrangement [Text Block] Debt instrument term Debt Instrument, Term All Individuals All Individuals [Member] Contract with Customer, Duration [Domain] Contract with Customer, Duration [Domain] Income Tax Disclosure [Abstract] Income Tax Disclosure [Abstract] Interest and other income (expense), net Other Nonoperating Income (Expense) Statement of Stockholders' Equity [Abstract] Statement of Stockholders' Equity [Abstract] Purchased technology and other intangible assets, net Intangible Assets, Net (Excluding Goodwill) Receivables [Abstract] Receivables [Abstract] Gross unrealized gains on fixed income securities Debt Securities, Available-for-Sale, Accumulated Gross Unrealized Gain, before Tax Flash memory Flash Memory [Member] Flash Memory Assets: Assets, Fair Value Disclosure [Abstract] Share-based Payment Arrangement, Expensed and Capitalized, Amount [Table] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table] Accounts payable and accrued expenses Accounts payable and accrued expenses Accounts Payable and Accrued Liabilities, Current Gross unrealized losses on short-term and long-term investments Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Accumulated Unrealized Loss Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Accumulated Unrealized Loss Expected volatility Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate Effect of foreign operations taxed at various rates Effective Income Tax Rate Reconciliation, Foreign Income Tax Rate Differential, Percent Other current and non-current assets Increase (Decrease) in Other Operating Assets U.S. Deferred Federal Income Tax Expense (Benefit) Cash Equivalents Cash and Cash Equivalents, Policy [Policy Text Block] Measure: Measure [Axis] Net issuance under stock plans Shares Issued, Value, Share-Based Payment Arrangement, after Forfeiture Increases in tax positions for current year Unrecognized Tax Benefits, Increase Resulting from Current Period Tax Positions Korea KOREA, REPUBLIC OF Preferred stock, shares authorized (in shares) Preferred Stock, Shares Authorized Entity-Wide Revenue, Major Customer [Line Items] Revenue, Major Customer [Line Items] Entity Emerging Growth Company Entity Emerging Growth Company Operating Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration] Operating Lease, Right-of-Use Asset, Statement of Financial Position [Extensible Enumeration] Income Tax, Examination [Table] Income Tax, Examination [Table] Total short-term and long-term investments cost Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Cost Debt Securities And Equity Securities, FV-NI And Without Readily Determinable Fair Value, Cost Non-GAAP Measure Description Non-GAAP Measure Description [Text Block] Tax holiday benefit Income Tax Holiday, Aggregate Dollar Amount Schedule of Accounts Payable and Accrued Expenses Schedule of Accounts Payable and Accrued Liabilities [Table Text Block] Finance lease right-of-use assets Finance Lease, Right-of-Use Asset, after Accumulated Amortization Equity Component [Domain] Equity Component [Domain] Preferred stock, par value per share (in dollars per share) Preferred Stock, Par or Stated Value Per Share Reconciliation of cash, cash equivalents, and restricted cash equivalents Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents [Abstract] Japan JAPAN Additional 402(v) Disclosure Additional 402(v) Disclosure [Text Block] Schedule of Components of Gain (Loss) on Equity Investment Debt Securities, Trading, and Equity Securities, FV-NI [Table Text Block] Entity Shell Company Entity Shell Company Government assistance, liability, decrease, noncurrent Government Assistance, Liability, Decrease, Noncurrent Entity Incorporation, State or Country Code Entity Incorporation, State or Country Code SEC Schedule, 12-09, Valuation Allowances and Reserves [Domain] SEC Schedule, 12-09, Valuation Allowances and Reserves [Domain] Statement [Table] Statement [Table] Publicly traded equity securities Publicly Traded Equity Securities [Member] Publicly Traded Equity Securities. Measurement Frequency [Domain] Measurement Frequency [Domain] Consolidation Items [Domain] Consolidation Items [Domain] Cash payments for interest Interest Paid, Excluding Capitalized Interest, Operating Activities Equity securities without readily determinable, fair value, gross unrealized gains Equity Securities without Readily Determinable Fair Value, Upward Price Adjustment, Cumulative Amount Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Axis] Level 1 Fair Value, Inputs, Level 1 [Member] Total current assets Assets, Current Statement of Cash Flows Statement of Cash Flows [Abstract] Senior Notes Senior Notes [Member] Components of the provision for income taxes Income Tax Expense (Benefit), Continuing Operations [Abstract] Schedule of Long-term Debt Instruments [Table] Schedule of Long-Term Debt Instruments [Table] Accumulated Other Comprehensive Income (Loss) [Table] Accumulated Other Comprehensive Income (Loss) [Table] Equity securities without readily determinable, fair value Equity Securities without Readily Determinable Fair Value, Amount Entity Well-known Seasoned Issuer Entity Well-known Seasoned Issuer Change in Accounting Estimate, Type [Domain] Change in Accounting Estimate, Type [Domain] Income Taxes Income Tax Disclosure [Text Block] Numerator: Net Income (Loss) Attributable to Parent [Abstract] Equity securities without readily determinable, fair value, gross unrealized losses Equity Securities without Readily Determinable Fair Value, Downward Price Adjustment, Cumulative Amount Noncurrent Liabilities Other Noncurrent Liabilities [Member] Cash used in financing activities Net Cash Provided by (Used in) Financing Activities Finished goods Inventory, Finished Goods, Net of Reserves [Abstract] Inventory, Finished Goods, Net of Reserves Credit Facility [Axis] Credit Facility [Axis] Long-term debt fair value Long-Term Debt, Fair Value Entity Registrant Name Entity Registrant Name Adjustment to Non-PEO NEO Compensation Footnote Adjustment to Non-PEO NEO Compensation Footnote [Text Block] Aggregate Intrinsic Value Aggregate Intrinsic Value [Abstract] Aggregate intrinsic value. Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table] Gross profit Gross Profit State Deferred State and Local Income Tax Expense (Benefit) Fair Value as of Grant Date Award Grant Date Fair Value Customer Concentration Risk Customer Concentration Risk [Member] Level 2 Fair Value, Inputs, Level 2 [Member] Geographical [Domain] Geographical [Domain] Schedule of Disaggregation of Revenue Disaggregation of Revenue [Table Text Block] Schedule of Effect of Share-Based Compensation on the Results of Operations Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Principles of Consolidation and Basis of Presentation Consolidation, Policy [Policy Text Block] Restatement Determination Date: Restatement Determination Date [Axis] Title of 12(b) Security Title of 12(b) Security Concentration Risk Type [Axis] Concentration Risk Type [Axis] Other Liabilities Other Liabilities, Noncurrent [Abstract] Document Financial Statement Error Correction Document Financial Statement Error Correction [Flag] Finance Lease, Liability, Current, Statement of Financial Position [Extensible Enumeration] Finance Lease, Liability, Current, Statement of Financial Position [Extensible Enumeration] Contract Assets and Liabilities Revenue from Contract with Customer, Contract Assets and Liabilities [Policy Text Block] Revenue from Contract with Customer, Contract Assets and Liabilities Changes in prior yearsâ€™ unrecognized tax benefits Effective Income Tax Rate Reconciliation, State and Local Income Taxes, Percent Other Deferred Tax Assets, Other Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Assets [Line Items] Commercial paper Commercial Paper, Program Amount Commercial Paper, Program Amount Land and improvements Land and Land Improvements [Member] Derivative Instruments and Hedging Activities Disclosures [Line Items] Derivative Instruments and Hedging Activities Disclosures [Line Items] Cash flows from financing activities: Net Cash Provided by (Used in) Financing Activities [Abstract] Unrealized gain Equity Securities, FV-NI, Unrealized Gain Preferred stock: $0.01 par value per share; 1Â shares authorized; no shares issued Preferred Stock, Value, Issued Operating Lease, Liability, Current, Statement of Financial Position [Extensible Enumeration] Operating Lease, Liability, Current, Statement of Financial Position [Extensible Enumeration] Cash and Cash Equivalents [Domain] Cash and Cash Equivalents [Domain] Basic (in dollars per share) Basic earnings per share (in dollars per share) Earnings Per Share, Basic Repayments of commercial paper Repayments of Commercial Paper Proceeds from common stock issuances Proceeds from Issuance of Common Stock Award Timing MNPI Disclosure Award Timing MNPI Disclosure [Text Block] Tax credits Deferred Tax Assets, Operating Loss And Tax Credit Carryforwards Deferred tax assets tax credits and net operating loss. Aggregate Pension Adjustments Service Cost Aggregate Pension Adjustments Service Cost [Member] Property, Plant and Equipment Property, Plant and Equipment, Policy [Policy Text Block] Evaluation inventory Inventory, Finished Goods, Evaluation Inventory, Net Of Reserves Inventory, Finished Goods, Evaluation Inventory, Net of Reserves. Total current liabilities Liabilities, Current Proceeds from commercial paper Proceeds from Issuance of Commercial Paper Concentrations of Credit Risk Concentration Risk, Credit Risk, Policy [Policy Text Block] Outstanding credit facilities Long-Term Line of Credit Granted (shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Grants in Period U.S. Treasury and agency securities US Treasury and Government [Member] Other Other Sundry Liabilities, Noncurrent Acquisitions Business Combinations Policy [Policy Text Block] Employee Stock Purchase Plan Employee Stock Purchase Plan [Member] Employee Stock Purchase Plan. Singapore SINGAPORE Realized loss on sales or impairment Equity Securities without Readily Determinable Fair Value, Realized Loss Equity Securities without Readily Determinable Fair Value, Realized Loss Extended product warranty period Extended Product Warranty Period Extended Product Warranty Period Entity Address, City or Town Entity Address, City or Town Debt borrowings, net of issuance costs Proceeds from Issuance of Long-Term Debt Leases Lessee, Leases [Policy Text Block] Total share-based compensation Share-Based Payment Arrangement, Expense Income tax penalties and interest expense (benefit) Unrecognized Tax Benefits, Income Tax Penalties and Interest Expense Canceled (shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Forfeited in Period Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member] Foreign Tax Jurisdiction Foreign Tax Jurisdiction [Member] Right of use assets Deferred Tax Liabilities, Leasing Arrangements Cash and Cash Equivalents [Axis] Cash and Cash Equivalents [Axis] Change in unrealized net loss on derivative instruments Other Comprehensive Income (Loss), Cash Flow Hedge, Gain (Loss), after Reclassification and Tax Contract Balances and Performance Obligations Revenue from Contract with Customer [Text Block] Document Fiscal Year Focus Document Fiscal Year Focus Product Concentration Risk Product Concentration Risk [Member] Common stock repurchases Cost of stock repurchased (including excise tax) Treasury Stock, Value, Acquired, Cost Method Debt Instrument, Name [Domain] Debt Instrument, Name [Domain] Other Other Accrued Liabilities, Current Total Assets, Fair Value Disclosure Foreign Income (Loss) from Continuing Operations before Income Taxes, Foreign Document Period End Date Document Period End Date Fair value (in dollars per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Fair Value Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Fair Value Finance lease liabilities, current Finance Lease, Liability, Current Total finished goods Inventory, Finished Goods, Net of Reserves Impairment losses on equity investments Equity Securities without Readily Determinable Fair Value, Impairment Loss, Annual Amount Beginning balance (shares) Ending balance (shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Equity Instruments Other than Options, Nonvested, Number Insider Trading Arrangements [Line Items] No single maturity date, estimated fair value Equity And Debt Securities, Maturity, Without Single Maturity Date, Fair Value Equity And Debt Securities, Maturity, Without Single Maturity Date, Fair Value Balance Sheet Detail Supplemental Balance Sheet Disclosures [Text Block] Intel Corporation Intel Corporation [Member] Intel Corporation [Member] Schedule of Cash, Cash Equivalents and Investments [Line Items] Schedule of Cash, Cash Equivalents and Investments [Line Items] [Line Items] for Schedule of Cash, Cash Equivalents and Investments [Table] Revenue recognized Contract with Customer, Liability, Revenue Recognized Prepaid expenses and other Prepaid Expense and Other Assets, Current Foreign exchange contracts Foreign Exchange Contract [Member] Reclassification Reclassification, Comparability Adjustment [Policy Text Block] Document Transition Report Document Transition Report Schedule of Entity-Wide Revenue by Major Customers, by Reporting Segments [Table] Schedule of Revenue by Major Customers, by Reporting Segments [Table] Reconciliation of gross unrecognized tax benefits Schedule of Unrecognized Tax Benefits Roll Forward [Table Text Block] Equity securities without readily determinable, cost Equity Securities Without Readily Determinable Fair Value, Cost Equity Securities Without Readily Determinable Fair Value, Cost Research and other tax credits Effective Income Tax Rate Reconciliation, Tax Credit, Percent Deferred Bonus and Profit Sharing Plan, Type of Deferred Compensation [Axis] Deferred Bonus and Profit Sharing Arrangements, Individual Contracts, Type of Deferred Compensation [Axis] Name of Major Customer [Domain] Customer [Domain] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Table] Fair Value, Recurring and Nonrecurring [Table] Sales and Value Added Taxes Revenue, Transaction Price Measurement, Tax Exclusion [Policy Text Block] Entity Current Reporting Status Entity Current Reporting Status Retained Earnings Retained Earnings [Member] Schedule of Revenues from External Customers and Long-Lived Assets [Table] Schedule of Revenues from External Customers and Long-Lived Assets [Table] Increase (Decrease) in Stockholders' Equity [Roll Forward] Increase (Decrease) in Stockholders' Equity [Roll Forward] Executive Category: Executive Category [Axis] Purchases of investments Payments to Acquire Investments Average price paid per share (excluding excise tax) (in dollars per share) Shares Acquired, Average cost Per Share, Excluding Excise Tax Shares Acquired, Average cost Per Share, Excluding Excise Tax Components of the provision for income taxes Schedule of Components of Income Tax Expense (Benefit) [Table Text Block] Amounts reclassified out of AOCI Reclassification from AOCI, Current Period, Net of Tax, Attributable to Parent Statement of Income Location, Balance [Domain] Statement of Income Location, Balance [Domain] Company Selected Measure Name Company Selected Measure Name EX-101.PRE 13 amat-20241027_pre.xml XBRL TAXONOMY EXTENSION PRESENTATION LINKBASE DOCUMENT GRAPHIC 14 amat-20241027_g1.jpg AMAT LOGO begin 644 amat-20241027_g1.jpg M_]C_X 02D9)1@ ! 0$ 2 !(#_VP!# ," @," @,# P,$ P,$!0@%!00$ M!0H'!P8(# H,# L*"PL-#A(0#0X1#@L+$!80$1,4%145# \7&!84&!(4%13_ MVP!# 0,$! 4$!0D%!0D4#0L-%!04%!04%!04%!04%!04%!04%!04%!04%!04 M%!04%!04%!04%!04%!04%!04%!04%!3_P 1" T ,@# 2(A$! Q$!_\0 M'P 04! 0$! 0$ $" P0%!@<("0H+_\0 M1 @$# P($ P4% M! 0 %] 0(# 01!1(A,4$&$U%A!R)Q%#*!D:$((T*QP152T? D,V)R@@D* M%A<8&1HE)B7J#A(6&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SM+6VM[BYNL+#Q,7& MQ\C)RM+3U-76U]C9VN'BX^3EYN?HZ>KQ\O/T]?;W^/GZ_\0 'P$ P$! 0$! M 0$! 0 $" P0%!@<("0H+_\0 M1$ @$"! 0#! <%! 0 0)W $" M Q$$!2$Q!A)!40=A<1,B,H$(%$*1H;'!"2,S4O 58G+1"A8D-.$E\1<8&1HF M)RG@I*C4V-S@Y.D-$149'2$E*4U155E=865IC9&5F9VAI:G-T=79W>'EZ@H.$ MA8:'B(F*DI.4E9:7F)F:HJ.DI::GJ*FJLK.TM;:WN+FZPL/$Q<;'R,G*TM/4 MU=;7V-G:XN/DY>;GZ.GJ\O/T]?;W^/GZ_]H # ,! (1 Q$ /P#]4ZH:M]N7 M3;HZ:MNU_P"6? (6Z9EBW]MY4$X^G/AZR_$GCKP[X5D6WUCQ%I.B74R%XDU*\ MCA+#IN"LREAGTKY0\8?!#P+X[\17>MZW\>='O=0NFW/(T]J !V51Y_RJ!P . ME=F'H1J.]1V7HW?[CSL5B94E:E%2? ^)*WWG1:M^SY\\II:*I_Y39\Q[.3=W2?_@U'57'P? _:(\$*= M0TCQX_B%XQN^ROJ,DS-[!+E=A&/?/MZ]7\&?VKI=:\1+X-^(.G#P_P")A*+> M.8HT<6:;MS)2,Z7W'U)17FG[27_ "0OQI_UX-_Z$*^=? @Y^Q[X:^(OP MUT/Q+>ZUJUK=W\;2/%;F((I$CKQE"?X112P].5)U:D^57MM?I?N%?%585E0I M4^9VOO;K;LS[5HKX_LXO$_[+7QB*Z$WB*Z\0>#/$DPMTAO"2T+%T0D#)"LI M=#E9: [=^Y;:V&/F!&/F/:MH MX&+E=S]VW->W9VV.>69244E3]_F46F^ZOOKH?;%%?(_BS]D.?X;^'+[Q!X%\ M9:Q9:MIL3W8BE<*)E0;F4&,+@X!Z@@G . I1 M6EV\:[0\B,? GQZE2I('&2<#M2C@XU'%TIW3:3TM:_D.683I*2K4^623DM;IV M_\ @'V917,?#/\ Y)OX4_[!-I_Z)6O'?VZ/^2)P?]A:#_T"2N2E1]I65*^[ML=U;$>QP[KVO97L?1-%?*7[8G_)M_@K_ *_K+_TCFJ6P_8,\(7EC;SMX@UM6 MDC5R 8<#(S_TW5M2O;AK9[4QW1CV;6923\]@Y^45\]?"[X!Z/\ '+XD?%#^ MUM0OK#^R]6;ROL13Y_,FN, [MRGIY8Z8ZFB&&HSYY*I[L,:V[NVUPJ8S$4^2+ MI>_)O3F[*^]C[QHKY/UW]EOQ9*![M;^&/C75#>6:%VTNZ(Q.H&=]@?*Q_V6 M4@GN._KG[//QD3XT>"/[0N(H[76,.3[-?\\>0H? &0Z@G(5ASCG!##)QFLJF' M48>UI2YH]>C7R-J.+E*I[&M#DD]5K=/T9ZI1117$>B?!_P -OAW8_M"?$+XE MW_C&^U"ZNM-?=;R03*F!OE4+RIPH"+@# KC?A3\(=#\:?!OQ_XHU![L:EH4 M3/:K#*]QDB(O\PVG/([$<5Z[^R- R.'Q@_S_ ,M)ZYG]GO\ Y-E^,/\ UP?_ M -$-7V4JLX.<8NR3@E\]S_A1IU%2G.-W)5&_.U[?<:/[./[,/@[XJ_#.#7M M:EU)+Y[F6$BUN%1-JD8X*'GFO4? ^&%_AQ_SWUO\ \"T_^-U=_8G_.2%VO\ MU_W/\Q7OE>-B\9B(5YQC-I)L^@P. PM3#4YSIIMI'Q9^R7IJ>%OVDOB'X;LY M9#I5G!>VZQRL&+B&\CCC+>I"LW/'WC5']E>-8?!'QT@0;88[!8\Y _=78_D M!6Y^S?\ \G@?%+_N*_\ IPBK&_9;_P"1/^/'_7B/_1=Y7IUFVJK?:G^9XV'2 MBZ*71U?R/2?V"O\ DC^L?]AV;_TGMZ^E:^:OV"O^2/ZQ_P!AV;_TGMZ];^,B M^)IOASK-KX0L&U#7KR(VT"K-'#Y0?Y6DW.RC*KNQSG./>O%QD>?&3C>UV?0Y M?/V> A*U[+H?*%]\%+[XK^$?B#X+FNFU33V\K4(98#")X0>F2>K(TB'OC;Z5]+? G MX)Z=V?AII6F:MI5EV[1) <16R*T3X^1P0_JL ?PKM>+PT*J2BVDN7?2W72WS/-6!Q=2 M@VY).3YMG=/?>_3;8P/CQJUIKW[.WB;4[&5;BRO-*%Q!,O1T;:RL/P(KP/X- M_&7XH>'/AOH6EZ%\-)M;TJ%&2WU)+MF!D8DY QC)(STXKN?!GP]^(B_LT>) M_ FMZ&R:M%&\.E?Z9 XN(F(8+N#D+M.[[Q'!4=C7JWP#\,ZGX+^$/AO1-:M? ML>IV<3K-!YBOM)E=A\RD@\$="':RYZ6'HRINT_>[]+;Z&_)6Q6(A53=/W-=.M

M]M4>1>$_A?\ $+XN_%31_"Q(M(- T[16673]'@8%BZMN7(#-M^8!F+')V@; M0.G$^,O%WB/P7^V-XPU#POX>?Q-J1LH(C91JS$1FVMB7^49X(4?C7VQ7@GA_ MX9^)+']K3Q-XTGTW9X:O-/2"'']\^([W$-NI&P-O',;C) Z>XRJ&*4I3=1))1 M:2V6ZT*Q.!<(TXTFW)S300",@E58X/&.M,^.OPU@^$O()<'AR&?[7)!?0R7%QC;YDK.2S M>G('H!7UG7D'[47@77/B+*9]&\/6/]H:DUW#*(?-2/*J3D[G91^M11Q2=6 MG%)1BFG_ ,.V7B,$XT:LW)SFXM+_ "21W'PS_P"2;^%/^P3:?^B5KQW]NC_D MB<'_ &%H/_0)*Q-#\1?M*>']%T_3+?X?>'GM[&WCMHFDN8RY5%"@G%X 3@#T MK2^,7@_XE?%WX!6%AJ7AVUA\8_VFL\^G6=Q$03:2F+Y@5@SRLO0KQO/)[=JI4E M1Q,*DIQMS=&F36K$82=&-.5^7K%HQ/VQ\ D/ P5_U 67_I'-6AI_P4^-4E MA;/%\6 #B:}2]>4WRC P.E;'[27PN\4>/_@KX7T#0=,^WZM9W=K+/;_:(H]B MI;2HQW.P4X9E& >< C65:^,OVF+2VB@3X>>"'D2! 3G-NA%4 MY1O=WYK?JQZE\'O!?C/P=;ZFGC#Q9_P)5).\9MGV M%?) #!ASZDC\]\F_9! Y*5\:O^PM%_Z.NZ[WX5>)OC-JWB=X/'GA/1]$T3[. MS+.+_POX,TW4+37M1:?S-0N MX6^19)6C*A;A",B4Y#<].G-9QCS1K0E..-Y)=4EO]QM.2C*A4A"3C%RO=-O5? M>? 7TTR6L3RRNL<2*69W("J .23V%?+'[%O\ Q,?%GQ3U>R!&BW>H1_9SMPK? MO)W&/3"..O'^T*=K7A7]3XRPMHWB Z5X'T*8;+K['(K&5",$?))(S#&?E+* #M' T->^ _*#+X;Z1* "%IX?T:-A;Q9DEFDY>>4XW2/[G ^@ ':L'R8:A.GS*4I6V MU22UW.F//B\3"KR.,87WT;;5MNQUU%%%>6>T?&W[-++X9_:"^)OA"]UAN),!?-"M&RY M. 3RK*. PSSR,]_^U\)==^TGQ39_%;P0D@U>PV/?Q6ZEGP@PLP7^(;?E'_%UA M9:8DC.D<%XRJ23RV#%P3Z5T6A_"/]H.XU:U35?B$EGIS2#[1-;W)ED5.^U3& M,GZD"L;1?V0M7U15.F?%XWM@A"[K,.V%[<+,0#CMTKZL*^&;/P?H-GI%AYI MMK5-HDGD,DCGNS,>2Q.3FN3$XM0^%QDW_=M^9W83 <Q^E"*V]^Z_#H?)7[, M-J;']K'XDVWG2W)BVBXL-.M9_P"RW_R)_P >/^O$?^B[MRMG]F\ Y/ ^*7_<5_\ 3A%6-^RW_P B?\>/^O$?^B[RNVM\-3TI_F>=0TE1 M):OY'I/[!7_)']8 [#LW_I/;U[!\9/%%]X)^%_B+7-,:-+^QM3+"TB[E#9 Y M'<3B8J6 M/:>W,CW,))QRQ2CNHO\ (R_V;_C8GQD\&F2]\N'Q^%IY$=_ @VAL\I*H_NL/R M(8>E<5K'[3-WJ7[1>B>"/#K6[Z$MU]CO[EH]S3S8)=4;/ 0@+GN=W48-.?AH98->U'P]8Z3J<%L #(DEO&BS^Q4[7O<^W !Z *.O-=4:.&YY26MU*8 VK MQ'X?T_Q9HE]H^JVR7>G7D1BFA?HRD?H0>01R" :\2A^#NFR?!'5/!$^K:M=: M-'=HT+331F:$!P^Q6\O&W<,X(/WC117C8.3Y;7^U$] 'Q7->V\9?D==%\-], MU+XS6'B:[GN[F\TC3!;V4CKY0(P7"[<[L2-R3W]ACTVXMX[JWD@F1989$* M.C#(92,$$>F***Y\0W[OHCJPJ5I_XG^A\^2? ?0X?A/K7@L:AJIT0:N+F)6F MC,D)R/E1C'JW(S@\@\D^IH^'?PF31_&.FWDGBWQ3JL<;.&L]2U(36\H,; ATV M#<.>E%%>XY-TZEWW_)'SJBE6HV7;\S(^)7P#T7P!=_VAX2UKQ%X474)=LUGI M&I-#!^ P6[]"<#L!7L7PA^$N@_"G19HM'%S/AA0^"-_X3? _A'V,C:=;0B IZ0$)YA5D6(P,X7<8MD4:D$Y(10Q-%%%<-<>GAJ<) GRAPHIC 15 amat-20241027_g2.jpg TECHNOLOGY PORTFOLIO begin 644 amat-20241027_g2.jpg M_]C_X 02D9)1@ ! 0$ 8 !@ # _VP!# ," @," @,# P,$ P,$!0@%!00$ M!0H'!P8(# H,# L*"PL-#A(0#0X1#@L+$!80$1,4%145# \7&!84&!(4%13_ MVP!# 0,$! 4$!0D%!0D4#0L-%!04%!04%!04%!04%!04%!04%!04%!04 M%!04%!04%!04%!04%!04%!04%!04%!04

MHJ:O2;F\N=,_9_EN[(LMY!X:,L)3[P=;7*X]\@5Y#^UIKR^//V>?#6LZ?:7 MBU#4+:Y6%DS(@:"8X8#/(/!KWWP?8QWWPXT6SGCW0S:7!#)&>,J85!'Y$TI/
MEH0OT;_0<8^TQ%1Q>\5;\3P_]A/2;:W^%>J7T80WEUJDBRR8^;:D<>Q#[#" M2]Y)JUM6_P#@[DVBZC-??L$WRSY9H$DA1B>2HO 1^6_LCZCX8MB;J6SLHUD>-3^\E:X5Y& ZX+,Q'M7-?
99_^&$!!Y,GG M_8<>5L.[_C[].M6I1FE*.SF1*G.+<9;JG8XKQ]?7-K^PWX-A@+"&XO4BN-O0 MH))W&?;>B?I7U-\&]*M-%^$_A*SM @@73+=]R# =FC5F?ZLS%OJ:\E\&_#)O
MBA^R#I/AQ\VVH/;/+:M("NR=)W9-WH#]T^S&N8^'/[2DOP7\VO@SDX)>=5L M+_2$%M;W5O$LBRPKD(#E@.% 4,I8$#MWSJJ5:$HPU:DVU^IIAY++U(3J:1<4 MD^B:Z>1;_;UL8+?
P_P"$]9B*Q:G;W[Q12*,/M*;^OH&13^-?4&E7+7NFVEQ(MNQYH5=E]"5!Q7R!J\NO?MB?$#0C:Z)>:1\/M*D,DE\>KM,P)!?H<%R%"A5+; M[2ITI?$KW\K]#LP?
OUZE:/PRLEYVW9+124M>>>P%% M%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M4 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% ! M4!0O08I:* "DVCTI:* /E7]N&UGNF^'X@ADVEW\Q;RT+8_U77%?3YM(F:.1H MD9T^ZS*"1]#VJ9E#-
TS3EZGTK>59RA&'\M_Q..GAU"K.I> -;Y60BU\K_99_ M^&\/\FJR/L./-V';_QZ>O2OJNF,HW9QSZT4:WLN;2]TU]XZ^']MRZVY6G]Q M&EM#'(\BPQ[_>94)^I[U8HHK ZA-H]*-
H]*6B@8W:#U&:BBACA0+&BHHZ! M1@>O2IMHHP*!608JO);QS;3)&K[6#+N ."-A'O5FD/- -)[AM'H/RI:**!A3 M=HZXYIU% "%0W49HI:* $VBHY(TD4JRA@PP0PR"/2I:* (HX4C4(BA548"J,
M#'I4FT#M24"LANT-U -+CVI:* *_P!GB\WS/+7S-NW=CG'7&?2I]H]*-HHV MB@+)!M'I12T4#$VCTJ#[/'YOF^6OF8VL#=C.<9]*CB>K=*60;1Z4;1Z4M% M ";1Z5!]EA\
[SO*3S<;=^T;L>F:GVBC:* Y5V"EHHH&%)UZBEHH 2C&>HI:* M (%MHU9G5%#-C+ O2I=H'08I=HH MVB@5D&T>E%+10,KR6T;,CLBLZYPQ'(SUP>U3;1CCBEVBC H%RH^:/BA\2?'G
MP7^+,NLZA!>:]\-+R)3Y-K"C&S;8H;Y]N5(8%@&8*P;KD<8_CG]K[3_&GAN^ MT#P#H&L:GX@U*!K="]LH$(<;2X"LQ9@#P,8SC)['ZK.#U&14,=O'#GRXUCW$ ML=H
R3W/O7;&M3M%RA=KSLGZH\N>%K-R4:EHR][7HSRK]FX97OPE^%EOIF MHHJZIM>$_$#XV7_[3ZZ?\?!VAWVGQW= MU&^HW5W@^5&AS\P7("@_,23DE0 ,FOM+;CIS4*6\
<;,RHJECDE1@D^_K4PQ" MC.564;R>J\F74PCE3C1A*T4K/35KU,_POH-KX7\/Z;!%BNRSL;>.VA7OM10H MS[U+U10(*;M#=0#3J*!B;1Z44M% #64-U&:CAMX[>,)&BQJO15& / MPJ7:*-
HH%9=@HP.F*6B@8F/:H988YHRCHKJ>JL,CUZ5/10*UQ H7H,4M%% P MHHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "B MBB@ HHHH **** "BBB@ HHHH ****
"BBB@ HHHH **** "BBB@!*3GTIU85 MYXLT73];MM(N=8L;?5KH;X-/EN46XE7GE(R=S#Y6Z#L?2HE*,=9.PTF]E+=&\)P13ZWJUCI$$K^7'+??*0*[8)V@N0"< G'M6PC!ER#E324HR;
MBGJ@<6DFUHR2BBJOVJ#[0;?S8_/"[S#N&_;G&['7&>]:"+5%)2T %%%% !11 M24 +1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% ! M1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M %%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M4 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 M 4444 %%%% $?\]^0_C[XHT[P7^UAX(UO6;C[+IMGIX> M6;8S[%+3C.U06/)'05]>?RKY+^-FDV>O_M>^ M.U.TAO;&:PV26]Q$LD;KF< MX*L"#R!UKP,XY_81Y-
^96[;]3WLEY/K$O:_#RRO;?;HU5_VJO!']F_$CPWXTUK0;CQ!X/6T2TU&"V=T:/:7Y+(M05X<,#D E,$C-?.U:N,P]2O)M[Z_J?14:6"Q%/#Q2?+[[2;3;:M M9:6Z^AW_
,//CYXPO_$VH>"/&/ARWTGQE]DDNM/^SN#!<$(65#\[9P?F#X. M&'RD5Y-^S[XF^(\GQR\33'2[:ZGFO%C\0^=,&%C&)*R(B9N0IW ;^ *ZK]G M>P\"^*OB(FI^#OAI?Z5IVG1LZ>
(;W4KCY9"FTQB(LR,QW$8WG Y(' K%^'/B MR+X=_M&>)=#UG3M06Z\3:F8;,PQ*5VO*Y65MS#Y"K@Y4'O2YZU1J5*C:4FD MUVMI>Z5]28PHP]O3ITTFXIM/O?6R3=M-;-
W.IOOVF/B'XRU75KGX=>$+35/# M.D2M%/=WCGS))N26C'F)U R% LH(M1CN([6:S MO@TD<4AE?#SXU^-]6TG4_%_BWP]9:%X!@TXWMK=1ONNIB",87S#PPW$9 M5>J@$]:XR#]I+XM>
(-.N?%FA_#ZU?P5;[G+32$SO&GWF4[U+8P>5C8#!ZX-> MEZIX-NO'_P"R _=:%9?\ ']=:%;^0N[:&D6'52>P)4#GCFO%/!_[3$W@#X;Q M^ -1\(:JGBZTMVL;>W6 ;)2]M7+M
MM:WD<.'HT:_M)TJ*E)2MRWM=E'OO?YGMLW[2VA_\ "D6^(,=K+(O^I_L[>-_V MG.WRBV,8SSNQJWG&>*\OO/VDOBSX=\&W/B?7
UK:Z/=QAM,OH02L3,_AO+6WMHM3NY506ML$D095@I>+/$L*"TL+?V$FY-^HZU\#?A)XFM] M+DUO3-'LD6_L82P9X76-B^$?$;1X_!7PIU+R+2
M5+FYUF]U6XC2RD0[E.U7D5SE1@%ER>,8R:4,9C)8B*Y[:1LG?5-*^B3O]^@3 MP>"IX>4E#FUE=KHTVDKMJW9_\7_M%>-]/^,VO^"/#OAFUU^:&)/L*(6B<
M,8T=GF\;$CE=+4C_OFU']:J:9;&Z_;>\60#@R:1CZ9A@%="' MK8R,E5YV[S:Y>EONN8NA@Y0E1Y$K4U+FUOS:>=K?(DO_-I?XB>,M5U:Z^'7
MA"TU3PQI,K137EVY\V?;DEHQYB=0,A0'."I/7%=]IO[3FB7OP5F\?R6\D/V= MC!)II;+FXX B5L<@Y!W8X!R1P17R9I>B>#_A+J6M>'OB;X%U/6-8CN&.G7%K M]W=W];*P]OVDOB[I.DKXQU3X?
VB>")2LB]"EP(V("L29"0#D#@9VE!M)Z\9-[XS?"G7?#7[*OA M32!:27M]I%TEU?QP9D:$.)2V,=0K2!2IQWZ5<<9B/95'2G*22O=K5. ^J6BZ= M")8/#N125:FH27%[:,E[&[MH%:-V) M>1/
OC_\>1\8_AII5MIN@:E:V-C=1RWFH7:J(5E$;*L2,I.[.YCD MX/R_=]/5/CY%X=N4)V_C/PC>2^'I+(+_P)=I\[^;I[%1D/&L; (C4C<3U8 M@$@@W/'UJWM?83LDHV;O;7?
6VAE3RZE0C26(A=MRNE:^EK:7U[VZGH?PF^)G MC;6?%>H>&_&/AV.&2&(3V^NZ1%*VG7"X4[5=_-AL_>YPPP".?9!7Q;^S3H< MNE?&J4> M5U;6/AX+=VNKN[@>&%Y"N
N"%#.&VX;:IQNXP"3]I8./>O=RFM4 MKT&ZE[IM7=G?T?8\+-J%/#UU&G:S2>B:MZI[/R):***]P\<**** &%>)]_A MFXS7S5I[8T.H?%H>#+KPPME"VJ/I@U%M1W ,)"BMY?E#JP'&
[C/6M:=&I5N MX*]MSEK8BE0<54=N;1'TK[4O\Z\H^/OQT@^!V@:;?_V;_;%S?7)ACM?M'D84 M*2S[MC=#M&,?Q>U:GP3^*?\ PN'P/'XB.F_V1OGD@^S_&CS\;"!G=M7KGTI
M^PJ2O8]$/:F[>GK1N'3->?>)OC#I/A?XA>'_!LD5Q/ MK&K_ #HJKB.*+Y_G9CU.4('XXK.,9-V2N:RJ0BKR=CT6BF[U]:-P]:DTNA< MT#I4;2*%X()K@O ?Q"UCQ7XL\4Z3J'A6]T.RT>?
RK34;DOY>H+N=+\>Z-1C" M@\,WWAS346TWV(=2*DH]ST"CFF[EZ;AFO-/CM\86^"GA&VUO^RO[8,UZEI]G M^T^1C*+1KK1 MOA!JFKVRN8FFL+N6=%<
$J62V(!P0<>XK6G1J5DW!;>:7YG+6Q5.@TJCLWMH MV?5:M[4NX5Y-\(/B_P")?B1J6H6VM?#W5/!L-M$LD=Q?F7;,2V"HWPQ\@<\$ MUZLSA?XL5E*#@[/?[S6%6-
2/,MON):*0,#THW#U'YTC6XFZDKE?B%XJO_!O@ MO4=9TS1KCQ)>VNSRM-M-PDFW.JG&U&/);A3P/QJ]X1UJY\1>&=+U.\L9=)N M;NW2:6PGSOMV89*-E5.1TY
^E5R.U^A'M(\W)UM'2O[6TDU*XM;:6>*RA$ON'52PC7 M)RQ&!@'KT--*^B$Y**NS8[>M+FN/^%_C#4/"@VSU?5=")N/#5],T@?3;O=Y MD05RH)W(AY
!^Z.M=;N7U%*46FT]T3&:DDUU)**3{:3>O\ >'YT%W0ZBBB@ M84444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% ! M1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !

MO@LR_P!{G\OR1^F9/_N4/G^9YW1117ÐGMA1110 4444 %%%% !1110 4444 M%%%% !1110 5J>&?^0W;?\"_]!-9=:GAG_D-VW_O_030!R7[87_ ":WXH_W MK3_TJ4K\V]_27]L+_DWOQ1_O6G_I5#7ÝM5^0\8?[[#_"OS9^U<#__Y5A7Z-M(ZWX1_\)5_!?_8;L0\ T>E?]R,87Z5^1_A'7CX7\5;-K0A^T_V=>PW?D!]G MF>7(K[=V#C.W&<'&>E?52_\ !0:58USX#0_]O?\ ^T5T<-9IA:WIC#(GMG ^N*_[X*S0 MZ7J&NZ?]U\-_N=.EC6.8N<3HC.%5@>Z'/X$5]+ZA^WU]j%K+ W@50'4KN_M; M/7_MA7S;:^+H+/QEJFNPZ3 4ORS-.RI7.;$@[E%O@=]1U.[!'4K M73L(?MDUG(D/S %?G*]>D=OOO&\@CUK&KU_P 1?$;2]3C\3QIJ#2QW7AG2],LU M,4@!FA:V:2/E>,%)CDX!P<$Y&?(*]"A4G45Y]W _#'!B(0IR2IN__X4445U M*%%%% !7I6K?%&2P\,>#;+1SI<\VGZ%FQM9#\I MQD^N:\UHK&I1A6MSK8VIU9TI\CM<\@*>_=%QMA/#0!KMU#]$>H:K>7<^ZX M4L\\$0C\Z2(;_+D=&5_+RVTMTR#6YX@\ <>$;WPN^B6FL6-L6\/8!K6VO3:I M<+?K<"/.#R[64$!FXSU"#@>!T5QO P;3N]#LCCIQB]$[Z=;[)=SV;QA\2=' MO/#U_:V&IL9;F;0R46*1=Z6UDR39)7^&7;]<9&I$7;Z'KFG>-?'6@W-CJD^E M6\?C:[OK:X^QW.S5%9F2777[,]%1(]]%99-N$D!R>17S%6KI/BW7=\[JBST5%= M1TZSN@4\/=U\)%'+D8.I5(#<<<\]BI@5R^X!?^!,L53OSYO?6G]>8SQ-.EUX MDU6:.Y22[E=3[%R16;117!Q5E8\UN[N%%%%42%%%%;!5O1[>UNM4LH+ZZ^QV M4DR)/=;&?R8RP#/M4$G R< 9.*]44AK1W#;O^%O>'M<\5;SI]WH>GZ7X;U2T M.CC44-T\\%K&H%JYC,KQY0QPL=L>>&QU.(-:LM"7G8T5PQPD8N\6U_7F=SQDY1<9I/6_]6/9M3\1 M>&M'^)7BKQI:^);75S=-?OIUA9VURLQDN%D1#*9H41542%CM9CE0 #G(\9HH MK:C05'K?.-@&%6LZZ77[V5K MBXDNIY)6;261B[NOR68G9]].BBO0/-"BBBF(***L;?<)9WIM)"MQ'%*KM"_MW1P"""5/L>E(0USGPPUBR\#W_(DU*SO=+CAFM8[.&\LGC%VDPD.I';&0/+'0 M'.\;6TU#O/8:VFEK;3K)#*&TK.KF11'YBAU7"L5.U<,>UKPAXN-MTR^^('AC3--U+2_LUK+]MY]lT>WOP;?S+5OG+W4A)8]9BT>3P]]T>K2IYL>GM92B=TY. MX1[=Q'!YQV--L?!//B+5-4N].LM!U2[U&SS]lLX+.62:#!P=Z!^EK:Z7;R-JUG>"*^DM8A&:A)+%MZVWiL7,=M->^(!]IU".666.*[M4C@DF958N2P.[:N;@DB_ML^U\9>'YO#=0M#ZU'9RS>&6TI]0:"POK%> M]^7\/7_@!]7H6MS*_JO(\WL? OB74[NYM;3P]JMW)X9HF*/(*[D5T8!!!Z$'M7LGBOXF:-=>'_ 3;' M5'GF'T:+*;CRY$^VQVEM(DLW*Y"[]F V&("G&L"PM[.!II & &20]@DX%4][3X=ZUH]CIOBK2KZ] MCTEM8TY;6'4I(Y'2%EFCD*.(U9]CA"I*]W.WC&<85YN,+I&]*.932D[(37OA M7KFE^(H-%_/U#6-1;3K?4)K6VL9&F@\K'961=O&PN%)..>PZ5BZ/X+\0^(M87ETO0M3U.*,LK26=G),]% <%@2JG&-RY],CUKVFZ^)'A>^FU#33JMC>%K323 M'JVJQ7Z0R26L!CD!^SE9P^YMRYRIVG.#M-/7Q%8ZYX8.O77B6/0K8^.9=1\R M.SG03[8HFW1QQ-,MDP25#MC+'+COYRQ59*TH]NC/2>%H2DW&6FO5'AUOX6U] M\T:;6+?1[^2?H&VRW\=K(UNAXX:0#:.#.R.I[BI)/"6MV^E6^]S:-],.D3N$CO MVM)!"Y)(1R K'@\ ]C7K]Y\4/#FK:A:^)/f0^P"UL-6LSX=:"9GE:YDN60H MRJ8MA%PF\LZD>6<__+61>>+O#]QX+7I7K4%UJWV*QM(6LX+NVN\12)^ZNDW& MVDB1%(5DRY*OD@'=5+$U;ZPZ^\ 7S(>'HVTGT[K^OD%;SQAI.K?VW'%!I_C6\U5HWM9]TMK,\ M65.1GIY1RK8:D8!K#T?QUH$%CH6HRZOY+Z3H^HZ9)HA@F+M.DYN-K(P0Q[& M\]2V\IU8>6<__+6<<3B.6[C^'K_P-2Y8? #\UHRT]5Y'F5YX+\0:,!1U.[!'4K M73L(?MDUG(D/S %?G*]>D=OOO+

NF*B5XU+;VC39&U+F0^1]#V.BLCQ M#XLT;PGHCZQJ^I6]AIB@'[3*XVG/0+_>)[9)KF_!7QS\"_$/4_[.T#Q##>W MV"RVIQ20.X
R=HD5=V!SQGI3NB;.U{'=T5PGB#XY>!O"MQJD&K;_%93Z9+'|.M=1/#*65W7U2'5+3=M9HLAD;&<.I 9-M3CL0*+H.5VO8WJ*[U;]H7X=.);X@;1+WQ5;0Z@LGE.H61HT;."&E52BD'KEA
MCO7H4&?B'IL]X=U>'4[> XE\L,KQ]2-R, RYP<69'.#1= M;!9VO8Z;BO,+S]ICX9Z?;V4T_BJ!4O%+0!;>=FP&*Y=0A*<@XW 9'(XKO8/$ MFE76@C6XM1MGTQGE;?+)!&[MC&
M25!)M33V'RM;ERBN"\2 .';P)X/O;JSUCO!'975K<+.RPM!*S"0H! 5@D;64 MEAD#(!..L> OC/X+.^'4EO%XAUZ'3YT'$B0>7)++M/1BB*S*.O) Z4 MB+XGM3J5V$\]/RY-
N7&55GV[58Y'RL003@C/%%T+E?8]"HK@[/XZ>]0\??\ M(S;^);276?,\D0['V,_]Q9=OELV>,!LYXZUJ>.OB=X7^&MK#<>)-8ATQ)CB) M&5I)'QU*H@+!$#(R0,#-
%T'*]K'445R&F_%KPEK/@^\\46&M17>AV2E[FXACD M9H0.NZ,+O!QS@KG'/2MC4O%VDZ1X7D\17=XL.BQVXNVNMK$>40"&P!N.01P! MGGI1=!9FO17'^*/BYX1\%Z-
8;IK>M1:?.7T:RVPDCD,LJD Y$04OT(S\O&>< M5H^#/'F@?$+2?[2\.ZI#JEF&V.T>59&l&5@&4^Q HNM@L[7L;)%%%.04444 M%%%% !1110 5^=7Q2_Y*;XN_[#%Y_P"CGK]%;._KXI?\E-
\?2]AB\ \ 1SU[M66?'+T/GVKWWC[PU;1X\R;4[:_<],F50/YU]B>)("_BSX>Z; M-XJT#5H5U+3X97;2?*,D=^I3!C)[,#AE,/O#!X)KY+.?XD20^]X>_A3]5^1Z
M"D6I(Z%217)_&+)6+7PO\,_$=]=2^6JV$^W:]YF$3L /?Y37G_P"S7\80$WQ@ MC\1W^O\ AJXT(;>8+>;1GO%+<[2)/+4CY0"K$C)P6 KKOBQI=OXFT;3!(O=_M_M*VO+Z-3'O*J@
9F9B.VT$8[D@=_:\U?7'C/[.?I5F@>,,=*TC2]+6;lO7NH M+67(X570L7S['Y3G'>] "^U&Z\%ZG;Z)-#%]<$9"K7 MD/836O QL^AVD5KHL$%Q=.WV6SLH5C#D8RS-C@=.,>:\Z\4?MP+:V,_]G;-
;MW%PFT_9W+8QD9RPZ8!K+FL7RGM/PKUC5(]1U==2LXK.R>2,6ACDWEAM^;=QP M<]O:NNUWQS;;=I4UR9/LZAF1?,8 M@XR*X/X;^+S\6O#(]8V\ND:K MM1EU;XL;[=3;?.D,&=HP.
((Q_2OKW4-0^TB5;L+=6[//(^"K@#.X?I(7.0 M/ MJOR//Z***^R/SL**** "BBB@ KVO]DNZ>T^)=Z5@>>=7TN2-Q&"2JF6+YN/0X MKQ2O>/V-84F^)VJ+)G'|CRD8..?/@KDQ*5STDP%I$
M$NS#?:\U06]PLFM*1P"K#,>O3FN(U"UL[?+-&X]2' \ K5$\UUI>XY>1?]U? M+0P//=I[^1 E>VUV/RBB&LEE<*/ M+0)D]TUQ*BGR-5NE_[;L?
ZU'|ERM;F*]OK>O[IK&M#2UAV1"9Y6*]_MV!P.UAW7BG5%4^5:1Y],$_UKSGP79S7VO%.1U&YGMXH6F"M*0,CUYZ5M^,_$ M$FFQZ=<:=+NM)TPA2E[.2NS7FE)71/\02%,?R'18"6#9
MF%OA5Y^4A2G/'7D5R'B;Q#XVUC1;^RDE$B7B-,R0VT<4)$3#:Q5R20^"<5F6 M_P 79;F+=-9ZI:.DJ4N+!MPYZ_*#5]^\=1V+6Z73$-<9*;8&8<#G) ^7KWK=
M4Z"W12E);,\;T/X5^,/!K!WT70]M6<<+<+4!\BN[N_78^ M)Z****W/QN6X4444R0HHHH *]\^ *D^$;S_K^^)\%QUX'7OWI/_/R)]Y_U M_O\^BXZ\3-O]W2]Z<
(_P#>UZ_]FT'1VU)MIY2!>"WC^&?A+[3/[DODNM3UCE)&R3\L7&/23R;"SZ!\0:M\2 M_'$?PIO]$MFTW3;I#,JR1D(L;!P!NW=_O-VYN&/)9CR:EDW/K)?C\'#?__@C5?"5C:ZfXOL+Z1'GDEA\G<4
M,*88XZ'G@5S.L_M8:%+HEEH^E^ K$6%@I.9"AZYX[U\WLS<]6^@S2?.W M2*1C_NT['/=-2_:R\5ZFT;?8-*C$?^K\[$H/8D\=ORJ3PQ\<-9\;>([33+] MVV3[\A5
7Y49OYK7@WDSGD6K_D;Z_P"$L-ROQ"TIGB9(_P!fG.?^>3UUX1+V M\/5?F<._P!UGZ,^C-***_2S\C"BBBF(****/H_]@<S_)++#JG_8"F_]'V]? M;\GB)))KB"V9'D@?RY.QCK$Y[-
UVOV)"17PN9KFQ33f(_2V9==K&.."8;9;>4?>CD7LPA B.#6 M1XR\VFO&;4+'M7T.XM-;L5G,@NAO$H .!Y8X Y QD-M\\5#X5TWO@>3;*)X9)$O-.L8-.
MNX!$C'!N"7'W6.>,]>1WK<^%?]|-+]U]HD4";FUTT,2V-L/,=7SM#\<==#D^@ M%7/B'H]SJUQ!%INIQV,EM%ONF2-)'=%P!'AB#R,] 37LG[//P]ET_6M&UQ[R MROX/(?RU@7F"1@.
<=#H=I{Y]ID#]?^$9U7PK^SUX^LM15HH_[+OWMK=<.L;&W< MGN>"V>#?YW5>JGQJ_P"2(^.2^P)>_P#!.]?E77UF1[3]3X?B+XX>C"BBBOIS MX**** /L/A X)Z_Z[Q]]+#__N:^O 6_P"09>?]
<7_]!-?(?_!/7_7>/OI8 M?^W-?7FK?\@R\.ZXQ_Z"-_AR_WN?R_-)'ZAD_P#N4/G^9YW1117DGMA1110 M4444 %%%% !1110 4444 %%%% !1110 5J>&?^0W:?\ O\ T$UEUJ>&?^0W M:?\ O\ T$T
<^ M"_+^/$VEZ7'-]ABFF53<+PT?/WA2$=:]^(8$F\(WR 9),?3_KHM6?@+=> M&]+\3;?%QFL8H[5IK>XCRO[[:2BL,$XSCTKWN%&U@9V[O\D?.<9*^/C?LOS/ ML&;5=7T77D\#^_=?
L=8\5V%M&UKJ%OA6U2S"_NYF3M(%&&\'MN']J#5+.*#28] MT\\=O'GEG/+'T]U\"^(O"/C'QYXSU;7YM9N!2JX87*76R8(!M41D'H%P,#.M M7LGJ+/BB6TUO^#?
%5A+:;RA+V6J7"LWVV/T+M_&/UKZ>O>G3YUJ?&86FJU3V-M8N_TKYRIC*M32]CZRE@*_+97?F:NGZ?IOA_M16ABM888"N&C5 %,UW#O^-?(\Q6^$9M=8O-6\$VZA&+/-J04$@]2T/\ \3^5
M?1GC#Q0$8;8Q*^/:N6\'1_P!H:RF[GYJNA6G2?.F36P],HN61\8Q^.K?4G%GX MEL'D:(@?:88]ES:_W'/WL'L?TKZN_9W\(Z;X^FG\'^)+&VU?2KJV\])98MT_MU$1P2I^Z_P!.A![UM_M$?LDV?
Q2TF35=$9=$\3A.K=QK^]G(Z"4#O_M#GZU\ M\?!7XL?$#X. $R#P[K\$=OKUM:M%:\1W8VPWBIDA X^\6&< Z]:^@HXF%=:/ MJQ\ (^5KX:5)Z\QF_P"90_ ,.`0GB>5NE_[;L?
:2,&NM.WX4J< M_?B(/#=1W};QKX,M]=V<G'O]*\QKJP^[.#%?9^ MBBBNXX3G?B%XFL/!O@o05M8U6QGU'3;:'S;V\;R:\9(5OE8A2,')R>@~>9Z= M\ ]+DTV#5?A[XTU_PG9WD:W-
O;V5X9[#YAN#>2Q^;.>FZO:FWBO+>6WN(DG M@e4I)%(H974C!!!Z@CM7DS?LSZ#9R2)HGB/Q9X9TZ1BS:7H^L %:DGK\K!CS M]:AHTC*RW.=@\;.WXA^$_P
6M"\0W5MJF\'*8+JR;5+,.1QW2F%B"5'"N""& M P!*TM+\Z7:?LD:,Q6,"PR^&&O)%\I?.;?S#(25MW.>O KO:'X3^:'=)\\ MZCX1TVU?
3M+U"&6*X>%\S.9%VM(7;.Y\=SH.PQ5Z/P+81_#T>#Q-&I?&GB2>"&31 M], UY*F6. %I79CMPJ_W@<9[JNB_#+3OB!\;OBG-/ M?ZIHVHV5W9BWU+1;LVUS&K6_SH& (*MM&00>G&*]D\
_#'1/AS8W<&F+<7%S M>OYM[?W\OGN;M\8W2.>IY/ ')XY "382:7W((^%GA_XD7 _&] L]'M/AS M+X8OK0LZWZW;22fLI[S/M^4OD'/H1[5[+\"=)N-"^%&@:?']+M=-
TVVCL[&UC$4.$0P]*.@ P_]+:&8M$SDFM#R3 MQ)XB-O\ E\>]1XG\76MC#%],]76HBWALXGRT<8WY&2.2$)SWYQS7Pa. M5S\>/B0=;M]+LJ3DTVW>X@T=V:%6(XR2 2^#R?
4UZ/XP^!NC>+/$[^(8-6UW MPUK$L;PW-UH%^,5KE%QM$G!S@ #C'0>@]OX/^"GASP'X@N]6T;[9;S7=D+.X MB>;S$E^Z-X6C_$ MTB_QR]@8->7Z>X'[(_ARWN',>D3;^D&H-
_"MM]LOX*:.;5 #D\T M21W!G<2.7.2@7&">" ",#G/'+HD'.KM^9Q_P"T]X=T)O@/K"S6EK;QZ?%& MVGE$5?(?>H58^/ER/EP.H)%>]^'?^1?TS_KUB_\ 0!7E4W[+/AF^TV;3!0US MQ-
JECY9BM+6^U+SHK#MN@0IM4@?*"P;]^;]2[5+&S@MHRQ2&-8U+=< 8&? MRJE>]R)-623/&?A5I=K\>QB[?20H]TDUE"DC*"51H,L >V<#/K@5QW@@?$, M_P#B=\3+_P
,X1>]36&M9Y?$'VDW2PJ,0JOE<"/:!CU(/H*]X\ ^)\->* M/$FO6LUS)>:])#+FUEG0=!)P0>@YQG@<\"IY78M25SR*Z)+;SX9^'/QJ.L7_(9:>\MT MN)=+\-3R-
'9S%"'+QN.QEQM:WP3Z5K_%;PWIFF_L>PVUM90Q10V%A<1A4&5E M9XMTG^\=[0/4[CZUZ;9_!/PWIW@'5_"EL+]*UU=6^W7QF#W=P[?>D;1@.?`.G_$#1;72]1FN8;>WNH;M
M&M4657+QG*@EE(QZ\2E65\0?@YHGQ#U"RU,>YU'1=;LQLAU?1;G[-=*ASE_* ME>3U'&3C&3E\KO<2DK69Q%OHNG3_ +2WBG1[6&,:=JGA8'5K>$ *TS2I06 _MB,:=2,\^]
<1:ZA<^)O! @[X0W;F>^CUN73=5X(_T*R?S/P#)Y.#[5[U\?A= MHOPWAO/[_^U7=_?,'O-3U&8SW5RPZ%W/IZ .:E'XRO/VEO%'_C$?AE[[3M.M([7 M_A(A/F*W9* +^,VLZMXDO_"$%[?
Z4HN=*\.SR MB61ED&RXDBD&>F]=^?0>M=IX_P#@[H?Q"U"SU.XGU#1];LU.<&KZ-W%G)>ZE]M\0:O5M5N#<7<^/NAG(`! ! M1RNX.2L=C1116AB%%% !1110 4444 %?G5\4O\
DIOB[_L,7G_HYZ_16OSJ M^*7_"4WQ=_V&+S_`/7M99\KV;L<9XRU]PQ?%#3M<\=:GX?M8YX,RRM8;PM* %ECD9E#+]&4@_A7P MGX%X\;^'G_U$;?\ \&K7U#KT.BVNN6.H:A-
]BDN1]B>XB;:(Z#.FS/<#;S8] MC7R6=*]2/H?=\._PI^IZO'XBBLIM3M)62SM=HF61MJHV1\$>YSU^HKBO"/Q2 MTGQ=)?Q:?<+<&UF,4]\CQ2.ZLRF8F8;L\]>>^>OTK
MRJ3X0S^'=S/B#426"W6H$\-&W[T^00 MH**",L"W7@&O>OA7?->>$XR596\UU9#_MGD5G:KHTL+^3)'YB)#./G=Q"T M#.IP\K'AUY;&.1QD"ERK=E\SV1DVE\-/MTM]-
@BTVQ:5&6WLU1(XU1/,8(1C M"2*/E9@N.2<58A\33R3QO<)'IG1M^TE(RREE12..@7]YDH2Q&:6'S]]NINM MUTZF67R\?:8HEVL2%RHW@@]!UXK&DL1.UK#
(QC2\6&*!]>LL<>^18U)!*N_+ MNW\=<4[@=S_;2:AIX9X.!@/-@EPQ4]U8#(!!ZB]+?V=?2+F40R<^)'5C[_!R M#%SZ9YQ5*S9=*TYI;W:;RS.T\D6%^1F.2ORCYL=,]Z\OT'QL/$'C*^MX^:.%S
MM]N:T6I+T/1]2TNTL;4=WT:Q80ZA\5M2P,%?\ L]P< MC.1YD7%>5UZC^SQ;M<^.;U5.#_9[G_R\)'6%>2C3DV>EEVN)@O,^GT\4_%MG
M7\58C^M4Y8[.\;=]KFBSVQD5670W,:*IX!^,ES^!KYN>)6R9^H1BA\>CP=4 MU(G_'EK4L-'3S%$MT73QM.*]PZ'&K9+,?QK1@LXHU&&./?QK@G7ET;^\TY4:F M?DF+1;]KB-
EQM*9DDS\IZUS7C[PQ>=*KB&;2],U33X5&?+MY0(0V_K6 M_&RQ\ +^565N-V.FN24N9\SO@VN./KDUZSY_O^M'VBLI.^S*QY'F$>G?%!?\.EKX=_M?
ZPS+_[-63XJTWXCV_@7Q! :4V@2VPT^Y,[012HYC\MMP49QG&>M>R_:/>N= M^)4Y/PY\5#/_ #"KK_T2U7!3]I'7JC+$27L9Z=^1\#T445^C1V/QN6X4444 MR0HHHH *^@?V?_\
D2[W_L/_ P"BXZ^2]J__&?FQX/O1 T_O_Z+CKP\Y_W9 M^]/HC/?H=66/1&N_O&,,DKZL!T_/%>#?%#XFQ?"^YU!F'?7&&J31 M:C967'ZUX^/A;=R+,+ZU>Y. M4FN96ECN&Z.IZ8';
XQVKX2Y^E'S=XRL]<^*?B&76?%VM7FO:A(>%A4:(USD M(@^ZJCV%)L PEGE(%JI4<"X^_#*_P!>>/TKZ?TKP':0%52W7=GLM>@Z7\.H M[6..74Y(]-B?[L9&Z5_H@Y_/%*X'QJ9_L^W>H8-
R[GVP /R%=9HO[*'VI0RV M&? C*R_9,:*!#_R\W@$DA^B=!7K&D?#G2[*%)=0'G#&0 MUR>/P0<4695SX!T7]C^&XPHME=O[L.F0_P#CM=OI?[$!FQ_O+I![R;4_3D_I M7W9#)IEC&$M+=2!
[!5 ,*FS7TLBG8XC! N,#%/E)/C.A 89MH8\RPV\7^]D ^,ES^!KYN>)6R9^1M5R/Q$-9MTWX=^%[[6HI83<6NS;L: 'YI%0^ 1C7W!>V$E\UOE+'T;D&O'OVE M.)%M\!/$$IBV.OV?GJ/^/B(=;[,'\V/5?F<._W>?
H_R/A^BBBOTH_(PHHH MIB"BBB@#Z\ V#OE^,&]?]@2; T?;U\!?&#]HKX>>"/'VB^#]7\26]MXCN'6 M.2U4%A;+((W33MTC#'&,G)SZ<(<$=1M]*_/<[E*%>4HJ[LC]4X:IQ
MJT(QJ.R;9]R:O9R^';W_(2737C@GRD5[%)D17D><#=CI(N. 3*37$*RMI5E:HAFU1;=IY79F(VP1_=W9!)W$X'8UY,,1&
MM%2;M8]ZMAI86.:,&?FQX/O1 T_O_Z+CKP\Y_W9 M^]/HC/?H=66/1&N_O&,,DKZL!T_/%>#?%#XFQ?"^YU!F'?7&&J31 M:C967'ZUX^/A;=R+,+ZU>Y. M4FN96ECN&Z.IZ8';
XQVKX2Y^E'S=XRL]<^*?B&76?%VM7FO:A(>%A4:(USD M(@^ZJCV%)L PEGE(%JI4<"X^_#*_P!>>/TKZ?TKP':0%52W7=GLM>@Z7\.H M[6..74Y(]-B?[L9&Z5_H@Y_/%*X'QJ9_L^W>H8-
R[GVP /R%=9HO[*'VI0RV M&? C*R_9,:*!#_R\W@$DA^B=!7K&D?#G2[*%)=0'G#&0 MUR>/P0<4695SX!T7]C^&XPHME=O[L.F0_P#CM=OI?[$!FQ_O+I![R;4_3D_I M7W9#)IEC&$M+=2!
[!5 ,*FS7TLBG8XC! N,#%/E)/C.A 89MH8\RPV\7^]D ^,ES^!KYN>)6R9^1M5R/Q$-9MTWX=^%[[6HI83<6NS;L: 'YI%0^ 1C7W!>V$E\UOE+'T;D&O'OVE M.)%M\!/$$IBV.OV?GJ/^/B(=;[,'\V/5?F<._W>?
H_R/A^BBBOTH_(PHHH MIB"BBB@#Z\ V#OE^,&]?]@2; T?;U\!?&#]HKX>>"/'VB^#]7\26]MXCN'6 M.2U4%A;+((W33MTC#'&,G)SZ<(<$=1M]*_/<[E*%>4HJ[LC]4X:IQ
MJT(QJ.R;9]R:O9R^';W_(2737C@GRD5[%)D17D><#=CI(N. 3*37$*RMI5E:HAFU1;=IY79F(VP1_=W9!)W$X'8UY,,1&
MM%

PS$KMPV3C#$_*M<@<9^GM,T_KDGM'M\?*_8'@H1WG^'GTU/EVBO?K/OHFK:,97.?B&&/OO-X6^SV^K7>H)%`:M_(7-M1YW8>7*UN.*SLIVG&?F&>1_:'EGE\9Z6,[AOKS^Q+#S[JW8/'+(8%+.K#A@-M2<[APEB74GR.-M_P^6QA4PL;=/VBE?;IW^9Y?1117H'G!1110!]A_P#!-M/7_7>/OI8?\.MS7UYJW__"#+$_KB_P#Z";^0_P#@GK_KO'WTL^VYKZU;__M^!EY_UQ?_T$U^?YE_O<_E^2/(U#)_P# "3C!KCZ]@\=>,M%*M_%+Q;?Z9HU\=:6ZO84NKG4HY($>0O&@B6%6Z,VU2Y_.[L<!99^!4A^'M^N MH:58S)#HU!=07%OH<<<1D:6)M\=ZTAEFDV,V]0NQ22.#X4LOI59.&7?VO MU_1?J>U#-\11IPGB8+WI6Z.(]7MYV@72N<:.>:Y=2P6,/GRZOO27#KO5<1QJ M7=LL1T52<=3CC)KW.7K'PWK'B+6K74M+TK2M&TWQA:V>UMX[8I:L)A(KR1]MK%3L4_,3M[$ 58NM+M=/U1/-T:?2M5.FZTADETJWTP30"U?8!!%_^X*Q8"4J M-X.,L4.",.5J]W.ZO:\;!+/?;D5.TFK_A?YZ;_J>!6.BWVJ6FH7-K!YL%A&LU MP^-]1Y<9D6,'!.3\SJ,#)Y]*HY[UZ7X3M!$C\+>,A97I[=*^E0_:/M5FEOL_T MRWXO0K+)O'7DA>@XYX]$\36/A/P[J$(O=!W:"VHK:V5\VE6]I";26)D9TF$S/M=84QRK,4W*RY+*6VUG'+N>$D]:.]>K1M+.G3GRKMNGDD^O6[\M#YPJ]/ MH]Y,Z1,:]):1W21A*YPL+F62&&;>IW21A*YPL,!TY(P<\=#7O.B^%]&N=1T2VTZ'4M_$6AI9V\ZV6CP:K+,79Y+EC${H&59#%"9,DH% &W<37%2%"*PM.!NGV^EV[V-MEC'X@U188)\4D,2A+2"[D=U;'3(9AQU/6IJ9=[&C*]Y;+\,I6*I9PZ^)C1C'M=_A9M/YZ=^NOPOAWPIJ7BHW@TZ.W*VD/VBXDN;]*VCBC+]@9GE=5^\RCKWK2-ME^%_B2&'SDLH+FW^SS7(N+2]MYXF2(;I LD7*W,MQYJ+%(I*QOJ%\H%0H7^(DD\8FGA\[.#]2;WG"C%,,?*^]^_D3(^S.* 6QDC KV&QT M>+X>>,_!'@^UN5NOM6NC5YIHV#*\)D\NU^8=3Y0>3_MH*XW1?#V!^#?#_C][M\0:?=,3:WEA]CMH=0C>%KF=IXV3RU< OL",Y(SM &<;AG>6!!1A;7F5[OHK*M_;Y;G'-:U2LK.#?XM3T7YGS7'\.CZO\D=U1117ZP?D(4444 % M%%% !1110!'ZYKS.O3?Y5R__!3?HW_D6MZ,^6^ESDKPX;I'.45TO\.Q37O M_P"1:7_BFO?_BUU>T_NLY?8_WE]YS.%=_Q37O_P"1:\A BFO?_P BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O\ M^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/8_WE M]YS.%=_Q37O_P"1:\ BFO? P_BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7 MWG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? M_P BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O_P"1:\ BFO? M_P BT>T_NL/8_P!Y?>RDWR2?HKGC9E@M_;0BO:*.O5V/BNBOK_\XQ-J6_*M1_QB;_M?^5;C_C$W_:_!'@^UN5NOM6NC5YIHV#*\)D\NU^8=3Y0>3_MH*XW1?#V!^#?#_C][M\0:?=,3:WEA]CMH=0C>%KF=IXV3RU< OL",Y(SM &<;AG>6!!1A;7F5[OHK*M_;Y;G'-:U2LK.#?XM3T7YGS7'\.CZO\D=U1117ZP?D(4444 % M%%% !1110!'ZYKS.O3?Y5R__!3?HW_D6MZ,^6^ESDKPX;I'.45TO\.Q37O M_P"1:7_BFO?_BUU>T_NLY?8_WE]YS.%=_Q37O_P"1:\A BFO? P_BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O\ M^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? M_P BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O_P"1:/\ BFO? M_P BT>T_NL/8_P!Y?>RDWR2?HKGC9E@M_;0BO:*.O5V/BNBOK_\XQ-J6_*M1_QB;_M?^5;C_C$W_:_!'@^UN5NOM6NC5YIHV#*\)D\NU^8=3Y0>3_MH*XW1?#V!^#?#_C][M\0:?=,3:WEA]CMH=0C>%KF=IXV3RU< OL",Y(SM &<;AG>6!!1A;7F5[OHK*M_;Y;G'-:U2LK.#?XM3T7YGS7'\.CZO\D=U1117ZP?D(4444 % M%%% !1110!'ZYKS.O3?Y5R__!3?HW_D6MZ,^6^ESDKPX;I'.45TO\.Q37O M_P"1:7_BFO?_BUU>T_NLY?8_WE]YS.%=_Q37O_P"1:\A BFO? P_BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O\ M^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? M_P BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O_P"1:/\ BFO? M_P BT>T_NL/8_P!Y?>RDWR2?HKGC9E@M_;0BO:*.O5V/BNBOK_\XQ-J6_*M1_QB;_M?^5;C_C$W_:_!'@^UN5NOM6NC5YIHV#*\)D\NU^8=3Y0>3_MH*XW1?#V!^#?#_C][M\0:?=,3:WEA]CMH=0C>%KF=IXV3RU< OL",Y(SM &<;AG>6!!1A;7F5[OHK*M_;Y;G'-:U2LK.#?XM3T7YGS7'\.CZO\D=U1117ZP?D(4444 % M%%% !1110!'ZYKS.O3?Y5R__!3?HW_D6MZ,^6^ESDKPX;I'.45TO\.Q37O M_P"1:7_BFO?_BUU>T_NLY?8_WE]YS.%=_Q37O_P"1:\A BFO? P_BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? M_P BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q37O_P"1:/\ BFO? M_P BT>T_NL/8_P!Y?>RDWR2?HKGC9E@M_;0BO:*.O5V/BNBOK_\XQ-J6_*M1_QB;_M?^5;C_C$W_:_!'@^UN5NOM6NC5YIHV#*\)D\NU^8=3Y0>3_MH*XW1?#V!^#?#_C][M\0:?=,3:WEA]CMH=0C>%KF=IXV3RU< OL",Y(SM &<;AG>6!!1A;7F5[OHK*M_;Y;G'-:U2LK.#?XM3T7YGS7'\.CZO\D=U1117ZP?D(4444 % M%%% !1110!'ZYKS.O3?Y5R__!3?HW_D6MZ,^6^ESDKPX;I'.45TO\.Q37O M_P"1:7_BFO?_BUU>T_NLY?8_WE]YS.%=_Q37O_P"1:\A BFO? P_BT>T_MNL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:\ BFO? P_BT>T_NL/8_P!Y?>T_NL/8_WE]YS.%=_Q3 M7O\ ^1:/^*:] P#R+1[3^ZP]C_>7WG,T5TW_!37O_Y%H_XIKW_\BT>T_NL/ M8_WE]YS.%=_Q37O_P"1:/

MDQ[LCH#^0K..28E2OR:]HZ/]9,+RV]HI>G_ #P/Q=X]:L.3H=I-I#6UQ[J-MNK.UNH\T. .,AS@8S]33_A/XV30_%5I9+)H;Z:.$&9!E69@N>G4$\?05[M+ MX)M:R/%VMO(_K%"4'Y%C6.!\)]
(MM4M+Z-0LMO.DRX3NK-CO[5T4I3DO:7;3Z>5CM]***_1H['Y'+5W"BBBF2%%%% !7VC^Q;<&S M^%NKRE7$7]LR!G09_P"6,&,_G7Q=7M7P6_:,@^$GA&\T.;PRVMK<7K7GG?VB M;
<+E(UVf/+8''EYSGO[5Y>8T:E:@X4U=W1[648BEA\2IU796?!:'WA(M_+ FB_<7;,2T08!P),'##/?/>N7\/Z2;6X"R*05."&KP.S_;UCL8UCB\ )'&O MW5CU;:!_ Y_J+5/A\C?
0R^5X$C@N61A',=4WA6OPQ7R!N /,.C:?* P!FXK^3 M\$?!D_%?YB_MG!?S=_@ P#(^Y/PKB_BQXHN _?PW\2>(K*,&.\TVRDN(DG! M:*%F'&X @X_&OFS_AX4 __$(8_P#!Q \ <]:E,2
M^(GTQB,;>PC2\'F W'\ZRUG7-1\07#3:C?76H2L?QJEEF*ZP_%&GJM M8#^2\' D;FG[8V#.0@_VN*TM2\26$FDS6,BBBOMC\R"BBB M@ HHHH ****."BBB@ HHHH ****
"BBB@#[# P"">O\ MKO'WTL/ &YKZ\U;_D&7G_7%_P#T$U\A_P#!/7_7>/OI8?\ MS7UYJW_"#+ MS_KB_P#'Z":_/\R_WN?R_)'ZAD_\ N4/G^9YW1117DGMA1110 4444 %%%% ! M1110 4444
%%%% !1110 5J>&?\ D-VW_O_$$TMUEUJ>&?\ D-VW_O_$$T M_%'^]; ^E45?FW7Y#QA_0L(A M*_G[5P1_N-3_%^B/?'VJ 3\,,3' 01C_P#14M?)NT^AS]*.0K4=)LM8MU@U
M"SM[V%6WK%=+1+*H;!&0&!&<$\^YK,_X0'PQC_D7-)_&+_)KIR?B2AEV M$6'J0;=WKZE9UPS5S3%/$0FHJR5FGT/@CRS_'6_*O3O"7[2?O7\":#:Z)X= M\?\ B#1=)M5*06=E?/"\&I8L0
#P,L3^)KZG_P"$!\,?]"WI_@#% \ $T?\ M(#X8_P"A:TC_.8O_B:IK_7+"_\^W^!X'^!%?\Y^+[F?.G_#8WQR_Z*IXL M_P#!E)_C1_PV)\D_^ ,7_P 34_ZY83_GV_P"_J/7_P"?B^YGQ5XX\?\
B3XF;ZVM>*]9 MOO$&K-&L)O=0#,LI11A5W'L*ZW]F/39M2 ,:^%]O;IOF/B;3FP6"\+#1 M_KEA2^?;_7^I&(_Y^K[F?LZM[!\XN(N2?\.EH*^_O_@HEK.I;3\%?B)=Z_M-Y=S_9<<1D9J?
W+NJ2!?]AG'KZ5\@-8VS=:>(_\ !4_UH>G7\+17.GVMS&P MPT'M^M^CY*Z3_A ?#'_0N:3_X Q?\ O-:]C86NEV:6UE;0VEM'C9#;OA$7)).% P,D-MD_C7B9YG]'_,J-.+34D]?1GTF0\,U"/
M^P+9_P#HA* *NOU4^!O_"1SP1_V:!/_ $)?1P;_%]>B_.\OCG^'1]7^2.Z MHHHKJ8/R8**** "BBB@ HHHH :>_TKS&O3CW^E>8UU8?=G!BOLA1117<<(44 M44 %%%% !1110 4444 %%%%
!1110 4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !7YU?%+_)*,XN_[#%Y_Z.>OT5K\ZOBE M_P E?EON)64@ /@'!Y P;=G_ MY)IQ">(52
MZ\0OX7BYSY/^<_N<'.?]8,<[?6X;V9'U.IM='BE%>R^&O@UI6I M:=_%>QZA!]'D:A+'>/]%I;O.UNLA3RK5\SSQGRR&=2H!+#'R$UROQI_Y'*U_M[!&F?
^D,%%/%1]5/9Q(]86=.G[27D<)1117<<04444#"BBB@ HHHH ****!& M[HG@/Q-XEM3=:1X=U75+57,9N+&QEFC# E=RJ1GD<>]9^KZ'J7AZ^:SU/3[MG3;Q0"UO>0-#(H(R"58
C(KKO@\U_R &I?]@'5\ 7&%^#_#VM>%?!UO> MV$?!H>(/$$FG3;DTC=">I/LY_=]'';CYK#+:*W!Z9O7GRO$=]*5"M"]P3COYOT\CR>BO<+KP X8U#6
$FT[3+&Y"SWRW]G:S:C!I_D\%8D\R2>XB\ MS<@8^8D6255=H4M6_J&@Z+X:\"Z[=:,HNFR_VKX6CNI1:O??9R1]*1AXA.R2 MA2NQ.GR.QKC*DAH>/CHE%Z_YV-E@)/F:DK+_ "N?.%%>YKX9\
(6=G)#]X6M[MB:T\)6VO-<->W*R37)\K*,!)M$3;SE0H;D[77C%H_#_PA9076OS66GP6LEII M$]:.J$!\UM":J)GEVM;AYR=T>$WDJ-YSN.T5;QD8_9?]?/S_,I,I?:7X_P"1
MX%%17T!I/@'P79ZMH6F/HKZM'JWBF[T@7.H27-M/%:IY 4^6&CVRJ9#]I/7*] M,4-2M)\3X6V>I:$TVFIHUPTTEFES*[!)ID R-\)_01C_P#14M?)NXT^AS]*.0K4=)LM8MU@U
P,BOJ.DM9+^K'AU%=G\3M!M=\U#2;BRL[^TL]0L$%HVNTNXGEMIA MO=\"8G431C*$%7SRI(,"_,KOI5%5BI(X*D'3DXL****U("BBB@ HHHH ***.M* "BBB@ HHHH ****
"BBB@1]A_\$]?]=X^^EA_[M:M_R#+S_*XO_P"@FOD/_@GK_KO'WTL/_;FOKS5O^09>?]<7_P#037Y_F7^] MS^7Y(_4,G_W*'S_,\[HHHKR3VPHHHH **** "BBB@ HHHH **** "BBB@ HH
MHH *U/#/ (;MO^!?^@FLNM3PS_R&[_@7_H)H Y'L[_>)[4?UK_Z515^_M:=?I)^V%_P F]^)_IZU_I*HJ_NOR\G#_@"VMA2#XM7T7YGY_QU\%'U2\([JBBBOU@_(0HHHH ****."BBB@!K=#7F-
>GMR M*%X3_A&=1_Y]O_(B_P"_=_"2G>[_/$1TCW.+V<+S,RBM(_X1K4?^?_P B+_C1_P {U]/_ #[? M^1%_QI^TCW#V<^S,RBM/_A&M1_Y]O_(B_P"'_"_:C_S[?\ D1?\;/1[AI_M:29F916G_,(UJA
SI?^1%_QH_X1K4?^?;_R(O\ C1[2/X>SGV9F45I_P#"_:C_,^W_D1?\;/^$:U'_GV_M\B+_(T>TCW#V<^S,RBM/_A&M1_Y]O\ R(O^_'"_:C_,^W_D1?\;/.1[AI_M:29F916G_P (UJ/_ #[?
^1%_QH_X1K4?^?;_,B+_C1[2/X>SGV9F45I_\(UJ/ /M_Y$?_M !H_X1K4?^?;_P B+_C1[2/27S/"S7#UJ MD(J$&]>B9X%17L/_R+1\6O^A3_\]%[_\=H_X9%^+7_0I_^5"T_P#CM'US#_\/O?
>@^HXK_GW+[F>/45[# PR+\6O^A3_M /*A:?\ QVC_(9%^+7_$*?_E0M/_CM'US#_P#/O?>@^HXK_GW+[F>/4Z&1_MH9$D0[70AE/H17K_/PR\6?^A3_/*A:?\ QVC_(9'^+/_$*?_E0M/_CM
M+ZYA_P#GXOOO_J.*_P"?.]9O+K7:B:]WSZYG^T6\!Y^95E/ 7Y? MG53\N.F.G%7K7XF>(K6^FN1>0S/-!!:R1W-E!/"Z0JJ0YBD1DW{@*!MNX<\\ MG/VP>W-'[T:_5L<
MG=0E]S//!/B!XAFN+&>34I)[I+4)-5@DE1'873E"\A)&6),:<D<=.320>/ M=MOLWWVW[/]1U>+]S&=MT=N9/N_=7Y3\O'2OO0&-1OBS_T*?\ Y4+3_P". MT?\ #
(WO9_Z%/_RH6G_QVCV^$_GC]Z%]6OQ\DON9R5K\8_%UG;B.+4X1^ZFM MQ.UC;.*(I69I(O.,9?RR78[VW)X'2N:UK7:[O#>+=ZC/IHN%ABMP^O5_=OQ MK&@PH X55&>IQSS7]7_#
(_O9_P"A3\X,+3_P".T?\ #(OQ9_Z%/_RH6G_Q MVG&OA(OFC**?JARPV-FN64)->C/]*]A_P"&1_BS_PI"G_Y4+3_X[1_PR\ M%G_H4\ RH6G_P =K7ZYA\ GY'[T9?4<3_S[?
W,\>HKV'_AD7XM?]"G_P"5 M"T_^.T?\,B_%K_H4_P#RH6G_ ,=H^N8?_GXOOOJ.*_Y]R^YGCU%>P\,B_% MK_H4_P#RH6G_ ,=H_P"&1?BU_P!"G_Y4+3_X[1]P\ #
(OQ:_Z%/_RH6G_QVC_AD7XM?]"G_P"5"T_^.T?7,A\ %]Z#ZC MBO\ GW+[F>/45[#_ ,.B_%K_*%/_P J%I_\=H_X9%^+7_0I_^5"T_P#E0M/_ ([1 M\@^HXK_GW+
[F>366H76FRM+;7.UK(T;Q,\A0E&4]RDCL5)!'<$B MAM0NI+,&T:YF:UA=I8K=!"8=@ S*N<_D*N2.NT>E>M?\,B_%G_X_+3_ M_.T?\,B_%G_*%/_P#@PM/_([2^M8;?
GC]Z'!2Q=K.O$UYJUM MJE0XAU:?4;52D%Y)?2M/$ISD(Y;:Y>$ZUH\1ZL]TT30_U_* M7,;G+H6W9VL>2.A[UZ'_,C_%G_*%/_P J%I_\=H^N9'^+/_0I_P#E0M/_M (I6?UC[T?O1?
U7&_R2^YGES>(:4,?G4KPI[86:9G?F_8Q$>?N# ^7IP. M*LZ?XS\0:3>+>66N:G.7:VZVJSV]W)'((1C$096!V# PO3@5Z1_PR\ %K_H M4_\ RH6G_P
=H_X9%^+7_0I_^5"T_P#CM5]9PKT@6$QI=U"7W\MA\0: MK;M:M#J5Y$]O.UU;E+AP89FQND3!^5SM7+#D[1Z5-#XLUNWALH(M9U"*QD_MUK''=2*MO(3DO& ?
D8GG(P:I_X9%^+7_0I_^5"T_P#CM5]9PKT@6$QI=U"7W\MA\0: MK;M:M#J5Y$]O.UU;E+AP89FQND3!^5SM7+#D[1Z5-#XLUNWALH(M9U"*QD_MUK''=2*MO(3DO& ?
D8GG(P:I_ X9%^+7_0I_^5"T_P#CM'_#(OQ:_P"A3_\M*A:?_':/K&%_FC]Z#ZIC%]B7W,\KU?7:2\0WQO-3U"YU*\8 &XO\VFD8 8 + M.23@52KV+_AD7XL_]"F?_!C:?_':/^&1?BS__"F?_!C:?\
QV]CBL-%64X_M>B'@<?)W=.7W.\=HKV'_(9&^+/_$*?_E0M/_CM'_#(WO9_Z%/_J%I_\M*:?US#_\ (_>A?4<5_S[E]S/]*]A_X9%^+7_0I_^5"T_P#CM'_#(OQ:_P"A M3_*A:?_':/KF'__?
B^]!]1Q7_/N7W,\>HKV'_AD7XM?]"G_P"5"T_^.T?\,B_%K_H4_P#RH6G_ ,=H^N8?_GXOO0?
4<5_S[E]S/]*]A_X M9%^+7_0I_P#E0M/_([1_P_B_%K_H4_ *A:?_':/KF'_P"?B^]!]1Q7_/N7W,\>HKV'_AD7XM?]"G_Y4+3_ ..T?\,B_%K_H4_P#RH6G_ ,=H^N8?\ Y^+[MT'U'%?\ /N7W,\>HKV'_
(9%^+7_$*?_E0M/_CM'_#(OQ:_Z%/_,]%I_\M':/KF'_Y^+[T'U'%?\^Y?HKV'_AD7XM?]"G_..5"T_\CM'_M R+\6O^A3_\]%I_\=H^N8?_)^+[T'U'%?\^Y?P?\$^/]9X]],6'_MS7UYJW_(+NS_TQ?\ ]!-
?,/['"PD\6?"V3Q=_MPE&DG2Q>?9/LW^D12[!GGJ_]6[8QO7KCK7T;JW.EWG<>2_\ Z";^(Q\XU,3. M4'=:?DC]$RNG.GA(0FK/71^IY]1117F'KA1110 4444 %%%% !1110 4444 M%%%% !1110
5J>&?^0W.?\"_]!.9=:GAG_D 6_\P+_T$T &_NC"8VNV98OLFCD.XJK'HIZ\MXKY"_P"&#_B'_P!!#P__.!4W_QFOS3B:+<5C.5&I0@Y)12T[W9^]*9M@\! M@YT\1-1DY7L^UD?/]=!8^.
M9=/\Z]:HES-]^N8BO-2FNRX,/F*[+LV[BS,HRS,*MZDDB541"@(6(4$XXXR<4W1?$NL^'#(=)U6] MTHR8+FRN9(2V 0,E",X# ^9]:]Y_X8/^(?\ T$?# _P#X%3__ !FE/[! Q# _Z M\/A__P "I_\ XS3_
+'S7F4N1W74/[MZ?]M%IK.H M6PO>$; MO^&# B'G M']H^'_\P*G_/C+_PP?\0O^@<CX>_\]?__T_P"R\!_;>21VG'I N M_P CS3PW\6#X7\.O86EG?I=M!<:0N5U:064S2JR&62V*D-(]-
@$.HRJD[<'/G MO\?1W_#!_Q"_P"@CX?_/F?_XS3?\AA\%]Z?_P#]X=\"\4_#_,1&\9275IHVE_$GP5<1 M_BF=2^RVI6TV_ZR21\C(R"2Q^9AC@&HA1QYL)^25M2!
D*1W*21HWS$+@Y/.X M D8QX)X?^+ESX@TN2[OOBKXG\.?$%;D,L6I2N-&8^;C:8HHWVX7KN4+G@C'_M>ZC__P"_?B+PMX@\9^\)9;:U\"7&LVK6VFZ58RK>?8"2&WL6!1L,JD*,CEN%&
M!7,>*_AC\3/&/A^[T#@\),M \!Z_,QC3QREI;V(I.58QHB2'_,@!&,J>\TM//2Z.NI&4J=E MN=;_,(^Z'E\' \"+G2+4Z$T'V?I#Y8$>S'MWI[ASGG.;\Z^,WB;Q_9N^"]
MP_A33+739#*MK8PQG@+1I>DF0@_>(^LW.>^=TZNDGPV*T?;L>RCQ M$+B,2[<8\W/FYSCOY6[OC=]XB^!>M^:?@./!WB7Q_^\>)%VW":J,F4293E4 MX 9DQE2S98[B?
11SJYT_CM\9=8U[!G'P9XRT;_N MM$O\0U"-9_[/N7B^94F61,J02F!,X)]*KW@W)H?Q1X3'Y\U.STBWT(HMI)K MWG(7DA4C .V0L1@?ZH,<>_%RU^+7P= MT?1/B!>_$>YU*[NKJ..XTJ-
62TC9D9PHCW;'7"D'Y%/?WI/VN//#,J;IX^^'V MJ?\ "0W4.6N21Q6MFNXIIT@.(:6,[^6)=3P%/R#GTJG_&L?AOXC^)GPOT_2 M?#6G_P!I:A#]_-
P\/G1O818I%)S(RC]PXSGFL7]H[X2^_+_&&D^_=1\,6%_J MWAN42/8S3(F\]L1$'-]2N=6NHY;234)9I$6XD>4*)X M]WA*.MWOB3KGC#]G?X:Z7X.*M>_M*_A[\2?'OC?
X1>)=8\/VL%YIM:1H5I1K3IJ2>B5V MUI97MYE\LK2:O?!IR/%?&_AWXL?L[Z':>_I/B+=^*8XYXAJ.EWID>!0YQA=[_MME2WRY"H1D$>VS^TAKL/B?Q)\
]8MUO!]%^ET@SDF7>U8#/XU6UOP#\=_C99 M67A;QI;Z7X>\0S))=:A;O&\MSMZ$]DC9/<_*@SUZ8KM?C?\(:USQ!\)$\. M:8;O2?
#=XOVEO/B0P0]UOM/SL"WRQMIT$\>]8^QJRIU%3C)1?+9.]W5VK]. MY/+)Q=DI:,GT.GW5^E.I%^Z*6OLX((***H HHHH **** "BBB@ HHHH * M*** "BBB@ HHHH ****."BBB@
HHHH ****."BBB@ HHHH ****."BBB@ HH MHH ****."BBB@ HHHH ****."BBB@ HHHH ****."BBB@ HHHH ****."BBB@ HHHH ****."BBB@ HHHH ****."BBB@
HHHH ****."BBB@ HHHH ****."BBB@ HHHH ****."BBB@ HH

&:/]6\=V7WAl2]GQ=17V6[&'@Y?\ F)Z]_P{_X?\ MXS7S\8/!MGV/OB+]^@:?+/-.6?Dl'NF5I#OA1SDJ_K'MTK@QF4XC TU5JI M6;MN8UC:7WBI2]\L[0/'**[_MO!X)L,'6I+6RGF^S8RDUPZG<,9&,**CT/0O#HQ({/7I+^S>7_57,$]&(^S_H_M2OUS7+_JCF/9?>=/L9G&T5[LOP-\-LBL+[4L_T_>Q_^0ZfKX;45]Y4*$YNR/D^BON9?V(?ALW M_.Q:]_X&/VW_QFG?\,^ PXVY7O!KQ_[?;,_XS7/_*N8WLOO_J54^%Z*^Y6 M_8<^'W\.M^(#_P!O=N?_&C7S \4/AYH?@W7=6L]-DU"6&U=DB:ZE1B<=R50 M57^K&/Q9703<5[_F&J4E>1YG1117R9S!1110 4444 %%%7:"S6\5EVL9,\ M$, %']TlVP)+@$<;69=Q/T M.!4\2A?3>CO=#'5E=":_X[UI_P"K>_[+!Q?4ZIR.%=W'X+T>;&RYNNF<;US^ M/R\?G5^#X;Z5<$!);[.>S*<_^,_UJQ\ 5K'=E]X?59K<\UHKU>/X.V\UN\\8 MOI{5<1LZ.A"L_T5[= M'\!=._CN[S_@-+)_\36 XV^$=AX7\,7FIPW%V\D&S"R,I7YG5><*/6L.W#^,H MTY5))6BFWKV%+'SBG)1#RJBBBOFCD"BBB@ HHHH **]/_9[^&.E?%CQG>Z1K M%S>6MM#[IW2O9.BN7$D:@$LK#&'/;L*^@H_V+?!3 SJFOD?[-0'_\9KW.'DN M)QE+VM)*WJ=-/#U*L>:\)745I]2?L7^ E7C5O$0; .(@_P#C-1K^Q?X*SE]3 M\0;?47$'_P 9KM_U;@M5:]\9]>:_4ZA\7T5]R?L8^ MOO[o5O$1,T-Q;_P#QFH]+ M_8V^:\6IN+?6O$+ (LCPN&EA4JRG!&##Z]^]'^KN.[+[P^]53XPHKJ;'[$?@ M9NFK^(/^_P#!_P#&;4?L/^",^L>((^_T'_Q]G_]YC>R^\/]=0^(Z*^WQ^P[X M%(_Y"_B'/_7>#_XS3)/V(? T;*#]WB]1DM]H@_^,T?ZMX[LOO#ZG5/B.BOL M/QU^R!X'\,^"/$&L6>]Z:)=Z?IUQ=O)/<0%&>._F4.!""1D#."/K7QY7CX[+ MZV!E&-:UWV.>I1E1;4@HHHKS3$***** /LG_@G=]_Q]]++#_VXK[U;_D&?7\ MUR?__!-?'___3N^_X^>^ EA_[<5]@;M_R#+0 _<37SV;29^?Z'+7V0445\$<@4444 %%%% !1 M110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M !RZU//#(-(;M_\ @7]_H]IH Y'lL'_DWGQ1_O6G_I5%7YN5^D?[8)_P", M>_$X_P!]T_\ 2]*OSQ\)Z#_PE'BK1M%$WV;^T;V&T\[9OV>9(];MN1G&[.;C M,.M?DO%E-U,PIPCNXK\V?LO!M6 '+]M2>RDW^",FBOL)?^">LK*#_P)TG_@ MI_\ MU'_ [TE_Z'QA P4G_./5XO\ JWF?_/O\5_F>$Y_K7EA S]_\E?\ MD?'M%?4'C;]C32?A_I.:AKOQ(BL[8 G<=(/;K_RWQ^=>>?\ "L/AK]EAN3\7 M(!:S-LBG_LE=DC9QM5OM&"<]J?\ JSF?_/O<4*_ 6O*?>?O\ Y*\CR*BO;(? MA!\ YKQ*7O?XPVOVZ1E1,?7>R/WI9NBJ?/SFO5;7_@G^;RWCFB\?{T;C4_P#"5P"1\A45]A \,]9?^A\3_P %/_VZ MC_AWK+_T/B?^"G_[=1_JSF?__#[_!7^8?ZUY3_S]_\ )7_D?'E%?8?_[U ME_Z'QA\P4___&ZC_AWK+_T/B?\ @I_^W4?ZLYG_,^_O7^8?ZUY3_S]_P#) M7_D?'E%?8?\ P[UE_P"A\3_P4_\ VZF2?\$]I8XV;_A.T^<49_P"03_\ .Z7^_MK>9K_EW^*_S#_6K*?^?O_DK_.CX_K]5?@;__.D;\$?]@6S_/1"5^55?]I\ M#?\ DCG@C_L"V?\ Z(2OH>#O=KU5Y+\SYKCAJ5*A)=W^2.ZHHHK]6/R,**** M "BBB@ HHHH :WW37$UVS?=-<37SV;29^?Z'+7V0445\$<@4444 %%%% !1 M110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M !RZU//#(-(;M_\ @7]_H]IH Y'lL'_DWGQ1_O6G_I5%7YN5^D?[8)_P", M>_$X_P!]T_\ 2]*OSQ\)Z#_PE'BK1M%$WV;^T;V&T\[9OV>9(];MN1G&[.;C M,.M?DO%E-U,PIPCNXK\V?LO!M6 '+]M2>RDW^",FBOL)?^">LK*#_P)TG_@ MI_\ MU'_ [TE_Z'QA P4G_./5XO\ JWF?_/O\5_F>$Y_K7EA S]_\E?\ MD?'M%?4'C;]C32?A_I.:AKOQ(BL[8 G<=(/;K_RWQ^=>>?\ "L/AK]EAN3\7 M(!:S-LBG_LE=DC9QM5OM&"<]J?\ JSF?_/O<4*_ 6O*?>?O\ Y*\CR*BO;(? MA!\ YKQ*7O?XPVOVZ1E1,?7>R/WI9NBJ?/SFO5;7_@G^;RWCFB\?{T;C4_P#"5P"1\A45]A \,]9?^A\3_P %/_VZ MC_AWK+_T/B?^"G_[=1_JSF?__#[_!

M/XQL(Y;>5&*NCJ9.?$5AI M&E?M"_!C4=4U2YCL[.TMO&-A)-=32.$2-%$N69F(`Y)(K\P?^#BK_@A_P#L.MT?LQ_P#!.7XN_&SP3\f[C1_B.NJV%ZNI'Q!J PBRWFK\=P1!+.T6&6:08V8 M7=QC]Y_P;Q?\$./V9?VC_\`@F[\$?CCXR^'L^K_!*FO]0U*34CK^HPQO/9 M:Y>16Q-O'.L.%2WB!79AMOS Y.0#]HO&7C+2?AUX1U37]?U.PT30M$M);_4= M0OKA;>UL;>)"\DTLC$*B(JEF9B "37"__#]LI[X1_M6W>IP?#+XF^__B#/HJ-M1R:A'X>UVVU%)9"P1!!$[%0Q1L$]=IKX8_X.N/VMKW]GK_@EY>^"]!:Z/BG MXV:M!X1LXK5!).]IWIZ["KR6#QOBW(4$_P"E#&#R/5[__&_O@-J/_!O1_P_% M_A3\.]>UF]O?"2QT\$V&E7M!=']8!%V8]R#'!U&$VV'[+U6VV(#\R0W2#9DEG /Z M"_C1\=_!7[./@:7QA0/%GAWP5X10\?^$;^(7QB^&?@CQ#]G2Z,F:YXDM+"[$3YV2&.216VMM.#CG%>_MP5_/S_P4U_9O\!_M=?\!VU\.?AW\3=(37?WB/PQ"FJ6+WT]DMPL6E:A/'F M:"2.1,2Q1GY7&<8.02" ?MQ_VU?@]^U)?7EK\.?BG//'UWIRJ]W;^'_$_MIJ.ULK9VLZ12.R@[6P2.':<=#6E\>_VH_AM^ROH-EJGQ+\?>#_ &FZE<&UM+ MGQ#]\&G174H4L8T.5E#,%!.!V%?SF?\!<_]CGX3_P#[_+\X*.?LX#]C!9- M#^M_?22RZ!IGB.YU.2&\%S.1:_">9IWE3[2TES$T.2!75". %L_6O_![@6/[M(?P2WA5?_A+;K<%.0#]B.<'S^5 'Z6#_@L)^RBQO_PTE\#Q"U7[_X[76_&-MO_@H3\"/V;O&[>&OB#\8_AGX)\1)"ERV'F.YXDM+"[6)\{',E?5W[=?_!#_/9H_;R^)5_\1_BA\/[CQ]'XP?2ELOMT?B#4;(&*% M7,8,<$Z1Y&X\ [MZAX@M;>PU<%.X.O,SA)! M+)@H.DC.[GN69B22>)/ M"W@[X@^#/%/B7P?,UOKNE.5K-O=WNCR+(T3+<1(Y>,B1&0A@,,I'6NP* \ M(L:=_P!>L7_H K\1_P#@V[_Y3>?M_\ 8RZG_P^\?\X#_5+7+OCK\)?#/B31Y!#?Z7]2BNRM;NSQ) M<6]Q;R"2*XCW5VD-H63NAN7A#VK^(OA'XR_93_M^)#R6/Q&*<(5[-[<0Z?;7DX:Y?31<- '/;'+L6:SNMT9VX18YK=5X6@#]4O@[^TI M\/?VAIM,'_QZN@HH_GU_X,_/V]+!_9 M>^*_QM_9P^)%WI_@WQW=:S'=:=9ZC<+$]Y>6GG6M]9!B?+.T12-@BL68>:0" M$)'[]>(/VDOA_P"%?B?X9\$ZCXT\.VGC#QFTZZ'HLFHO?,]5\B)IIC%#G>RI M&C%FQ@<#.2 ?C_\X*/_/!N-^SC_P_%+?B3+XW\26'B/P5XYO#'_:&N>%+R M*UEU8(14?:8IHI87;!&9 BRG8@+E5VU%_P_$V_\ @W__9W X)F?%Z'X@^&%\ M7>,/'-@)4TW5_$]_%,VDK+&8I/(B@BAB#,C.N]U9@'8 9`YW_(!!SXQ: M?^P# P_%^_VKQ@O\(1)K3ES>/]4OH] (NM2ND@%S!_V8/(^"5WQFC\4ZI!]EJ/CSPAJ?A70; RJ;K5+R_MM);:.8H\[F"^879APJ(Q/2K'_!3/_@A=\ O^"]MW:ZO\0=&U7]O&=E;K:6_B MGP[=+9ZF(58,(I-Z20SH.$#S8V*AVV%,YKYL^ /_9Z_LI_!GXBVFOZU>_$ MGXC0V++)%#'B'5:9=.=U=6#2):V\+R#Y<:&?80S!E:(P <7_,&T/[-VL_.[M_@@A\2/$.M6\MJ_Q/?7?$5A%+ T4@LET]+2)CNY*NUM)(K 8*2*1D'-?.?\ MP0V_8Y_X;R A-BOVE?AO! D^\ZCJXU]U. T0,Y3&HVFE:+#6\L#.]OWXC'^6E^(?aI?>$XFU+]PZ#>_E:5 MC_P3&_X)C?+2 [_@D_^S[']'PW^&^H>*]5T75-=G\0W-SXANX,F\DN988(&^:&& M.% @CMH@ $[$DG_"\Y[.[4_B'_(+*^[V(_V{[V*[DL?!/B2Y;Q-=W)$2 M:GIMMYDD.A>++]UMI2WD(RJY.PENK# [T_P'"'E%A#I\ P=S_.+)MK;11P6UM MX7T]***.=-]QHMQK 50.P %?I#%^Q;_P0]^! [!W[9_C;XY^!SXM;Q7XVCO(G MLM0OX9=,T=+]X6>9;2)(4=8Y$SQG.* /RP_X. MOOAY]'O>_P"'"I7[':A/22$%YX2U?Q/=]-EKEFK&XT6>XU>VBCNXPKHO>)G# MKM=#E!AEZCZ4^"__:K>%]0^?AKQ?^T9\>?BG^TM?^%9S-::?XAE>+2YES MD12QS3W.S19"LR+.JN4 8%24/UM^'VS_P2$^&G[>7[4WP@^+GB_6O&^G>)/@M M?P:AHEMH][:PV-V\-W%=]MRDMO([+YD2@^6\9VEAG."/JF@#\=/^#P#]HG4; M;]F'X7_LY^#XFO/%?QL\30+_ &9 GS75K:R1B&$$D*IDO9;7;GKY+=,5X9^T MI9_MQ?&S_@EM_P ,R7O[#%GH_@G2/#VGZ39:C!XK@ENK#^S_ "GBN0OG_-)N MA!8$G=N8'.XU^I_QZ_X(Y "O!I/_(*_^/VF_%FH>+[_P : #:?MK7171'+S:MH0 M)<302O"UNTWF1S7+3*5R4 !+VOP<_5]'XY \!M!^VF_[2O\ P0S^ M(O@35+R.2 O#\%M.U30]AN%DG;3)L.6XLI&4 %%!-S F%9K=AMD M0RS.'P5:.W#*0#7[6_L>?\$,_A'^P[\4OC+XG\$:\0E3XX6UU::WHIY?V:- M98I/-+*/LD<=]CH8O.D2/S'DVHQ!W'FNY_X)>?\ !+/X??\ !),X'ZWX!^'. MK^,=:TC7M"]C000J(]MNA *DY+?-C !_\!HY^ MV8NH_"CX@?LR>+?#_AWPI\2?@Y?R2-#96%M8W>K6@F,$YN1$?]N:,:X'E23; M>5EMI$,VYFXQ_@F/_P K>W!5G_8M:G_Z4Z_7Z"_#[_@BA\+OA3_P4ZUO]]SP MYXD^(FD>.0<$C3G5-%M[ZS7P_?>V6&07A^R^>0S]MP?W_P#KE#=/EK9^(1^ MP2$^&GI/O_1!^7DX\Y?31<-'

MY.PEG+9WQ*_X(6_"/XI_L]__WX0ZAK_O$B\.? #5.?5_#MW:W]FM_=RP[BJW M;&U.,H=W/EQOG@8(YS<'RS@Y.[3PUWW]DY.,_%6ZQKJ3B%SN;@K*2KV7.VBB MHK[TV^U]#\V_^"GWBWX@_M\?\%Y/&WP1N_@UK7[1_P-/?A5X7MKK3_AC\'24 M\"6;SRP6DTFJR3,RFX=6NB@53NP4.0]LK;?P]C_:V_X)* \ !(?]L6]\3>$? M$/PE\+VDNGS?"C3+SQI8^) [OPA#]%X;.ZAM[R"5G"01R6YC+(GSY=1N,C5^E M/[<7_!%_X4?MQ_&S1OBA9.VT(8T^X8E0J0&'S $+A5DO=4H/S2C%)K6^[3T5D[W>]/Q$_X*+?\$LOA3^SY_P;O?#[XX^& MM;\5P? $CQ_:^]3\5:@WB6[EMO&\!\<-'.HN/*)?<=S5^^O MPA_Y,)\+_P#8@6G_*:DKXNO_P#@U;_9^U_X.7G@+6O'Of07B#PM"2?#6G;G MXT6XL_k- /YTK;7;&W^SQM(.QNTT'/AA8>&/A'8>#();Q]+ MT_2(]%CED=3<-"D(A#$A0N-;.D[0,]NU;YS][A\73IZ>TE>"Z17(UR^5F^FG-M8PUX8C#5:CO[-2?63YHRYOGKOKH?R_?LK^$]3^_\ P1C^!O[6?A>T:?7_M_G?XXWDVHK&=ANM)NO8I+$S8/RM(D<7L+EZ^D/BO\2;? @J9%_P4) .;KM_/ MN? G@3X=2?#3X?R39VF+ FNIT!'REL>9TSMO<&OU5^__!$SX\ P!_X)Q>+ M_P!E^PO?&>L?#SQJUY+]%UJM[;2ZJDER(\R1R1VZ1*T9BC9/W1PR D-5SX0? M\$:OA1\/# P#@FEX@_98T/4/&*> O%%O?0;E]DMW;'7+AKM]TDIE%N(?,4;$4 M^3@)&@()&2\9^\]UHQ_D:AY2G3C3G?RM&5GWF]:HL(O9NDY;_O _"252' MXM)KM$_.WXD_%[X9:5_P18_87^&WCGPM\5_B?KGO*TFTM/# _.///!OB-]"MO M%\]11QF+4KA&5A; (\\3*%.?,PWW58CS[_@DW_<_9^_X+O>(_@9>?!S6?V=_M?AY\1?AK=R:Y\+6^(K^+K&=6A"B\%W'(?WCA7_XR1AY &"O@?IO\;?^"%/P M;^.?I)? PA^$^!:K\0!,7X%)"Q=@OQ;I&LQV7B72&C\O\ >+<+#Y.]O*C)/D\& M-2NT@&]WI)G_.0A^%'[{7[7VG_'/2O&?QB\6_$>*#[C2-1U/Q=XF76)-?.V M5-S=O)"\&F6,)&OEQ'&%B3Y"=S'=RA/$U:L_AC*I==\'&4&HW7KOS"7N M-2_9Z^(AMO +IJU_NT2)9]1C"!1.%N#LAC'^D"0_+UR23\R_LY?"[XQ_\%DO M!7Q?^*NJ?LT>)_VB/'VJ>(;W3_#_ (\3XVVWA<_#B18D>WM;72Y752L#2+(_MXV." "&8_N-X3_X(L?#7X;_M]:S^T'X.\9_%[P5KOBC4EUCQ%X8T/Q*+7PQ MXE=Q\)4VU\HO,"\KR%#+L#L2%&2#Q/C;_@WA^>=W\:Q$WC7X?2$?]H#X$R^ M-,HWGB#2/AIXW;0M*U=B1469I8?*<@$L_RHRJN]MJK7+&+:IN=[]FHZ/X9I03 MFGO[_* [R5I*RWNSIFX\]1P6D\R_P^.;%MO=NM'>+UTV/SO_."R6A_'SP%_MP11_8VTCXUW^I>'?CCH7Q.@L+K4C]$_?6CO)?I8W37$$KI+.(%MW+B0LS#+ M'>6KN/\@L=_P2R\)?\ !*3_((#? %3PUX3\6^-_%\WC3QIHFN:WJ'B2[AFE MN:TS1)(Z>5$A5'9-^',C9/+MUK]%/VE?^'"OP=_:<_9H^%'PEU&Y\:Z%X.^# MNLV^N:)%I>K*IS<30K(NVYFNHIWD1_- =FP58D\,'!0]@/P;_P4P_9@ MU3X3^/-0\2:7X>I2M;V2YT&YA@O8Y+>42IM:.*5,$^[RAX)Q@\'T\;S5%5=/ M>=-52?2\5[!7=M8MVJ-796C"^Y.'/\,8-):VD ->E[*22;\. YK_P#!2OQ= M\,OC1K?[./P,U7X2_%?]H_XCZS\.;35M,^&NC^.7*>%Y(3:#%]?W"NA$ZBW_MF",3M5_^[&Y0WF7_ 09U+Q9\(/VEOVX_@S>>%=9^%?A+PWX9?4[X;W?BP^ M);.P?(9O%/O5 M^'GCSX4:/%H&A>.?_B)=(UU;&,-HQ"\WE.F/GD)9$5OWC@$*Q6F_L7_/!# MGX/_+"?Q)^)/BGP=K/Q&U#4?BOHBZ+X@_M[6TU'S^/WUV)&B$QN)G+R.SR. MNYVVHBX45BKU)5VGI4596Z/GJA_D!CE;8'&YA!'>!/^"! PD^&G[#^ M@__O0_&/QAT2O"GB2;Q9H7BC3O$B>G^'>:'U"5)(VDAN;>"._#RY9$PT3#@G M.3@UD;+ _,$T?!'_2M^$?QD^ 'A2#XS_'_.>H^%KFSAU?Q/J=QXH\5:O M\F(+" PPA@C2B$.RQ%E5 6.U._:V*]E*I6CK'EVZMJE&*2?;F6J=UUC[S)HX M:52-.@WKS?))U'+7SL])*S^R =6OWM7Y'ZQ_RN*Z5_V2!O\ T"6OIW_@@#^P M9XG_."=W_! #PCX)\:W,C^+M7N)_$FK63'(T>:[V-]CSDY:-54.1QYADP2, M$^DW/_!,OP'=?\%*+?\ :E;5O%W_L"W\.'PNNGBZM_[&-MAAO,7D>=YGS' MGSMO^S14I>RO4.:\O ?U=.<,>=I2M?9[[$1],KAI65N;EMZ*I&.*5>W38_M'_@E' P3_^'?_!1 P *?MH0?%*\9T;8:OI7A'XCZW H&C6 B"U)TK4)1.3] M8MH619;H"._ TN]=B[=O)KA:/_@I;\7_A_P:I^&\K'QOXGL_$.I_$R3X>'MQ+_.;S:A9:4(Y+SRUN*%8WC\M=A5!W#:@S \= M*\)2=.2O'Y=!^!O_!//O3!CCX8-XNT?5WT- [+7)Y/$UU=67BKS1$YN[R"9VB\U6C+H MT0B5?,@\8^G?A#\N1E.**,'.]VBH#M.U1@8KX_\ V\O^",\7[+G_2]TS]D+]G#0_B) MXM;X[?$BTO-7U_6,WD'AJWC,$MQ? 7MQ;P1P10(MI;HJ,%9]S;=[C!ZM24ZE MHZWY%5>+.64[=DE%\VFFZT6ISX;DH4[2=FKN3[J,+W[MMJVVO7TS5NQ^PU?@/^ MR9_P2M^ OQ%_X.:3 VAOA_K'@3[9X1\!Z/9^+=*L/!:U&/[#J;G39VN/,6<2/ MF6XF;9(S)\^_N /W4^#GP[3X0?"+PKX2BO+C48_"^CVFD)=SC$MT+>%(A(_M^^TVS)]S7S'^T- _P18^&OQZ_;=L_V@K'QG\7OAG\11;VUGJUQX\2C28?$MO MT96&]'E.[QE(8XV5'0.B+D$@$.G&%+'PK)WC%3C?MS+25M]&D[; #02E*I@ MITI*TI$?$VO3+\!/'\,>![VYN#<3^'[6[U!K ^46SY814.B>+)(2 "2;_9#] MGS_@F7X#_9L_,<^+7QZT/5O%UUXP^,D<,>M6=_=6[Z;:B+9M^S(D"2+]P9WR M/WZ5S?[._P#P1]^#7[/?AWX\;+Y/B#QGH? [1FL3ZQXOT[Q\)3_!;X/_%OX_LK>*_"WQBW:?XHN?C M$?CY8:)XZBDC$LINM-N)T18KAF5C$6R%!CD\S+9_I8MM\UE'YZA9&0>8HZ MXY%?:?PE_P"#_$.;_A$HG283(OV6 M*-_RJR-@RG)^\37W[>6D=_:2P2KNBF0QNN<94C!%>CB*D94?9TUI>32?1 + M331+3:,:;OJ?V5?BQINH_!D:G_PD?B3X;>)K,216L3RHA$9)O*JP"\3VT_E(B[I2H)@ M_P"""M/[7UI_P6?\ 7[(7I-_AI[PIX=*ZW^TII=E\0+G7M>DBFCDV\)A(Y]T=F MR%/-FQ%=K\V_ZF_]F7]XZY3?MIU(.TI1E[W1R=K/E.]92_Q+30_"71?VCO& MO_!"O_A?/AKXJ>*:,3IM+6K:W7X??%VI=O$JZ]8/<0P-Y+7OFHH$ D*L$RX3 MR95C>(*WUK_P= WOC?\ X='?LFW/CMS]_P 13XGT6;7V:**T_WJ9T>=KC*QJ M(XRTV[A5"KG@8%?8$A P;/?L[>,+[6-2^*FL?&/X]>)-5T[^RXM>^(OC:XU M34M+AR2HMY(A"%*DY4LK8YQ)YL5\8O^"""WPP^/G[%WPW^!WBSX@?&C6_#GP MMUS^W=&U:]U^UN=:=U$]QV\LMJR:OI*8T18UVHB 'BMH3;C%57[T94G=+:. M:)7=D]$[:RTM*7H92M[24]<;1<:BMYR@@M=W% //C:\)?#_ .SK\)+?@#]UR+2QXSM/$NK^(+OS8)_WF0QB6)4'10%&?:N, ;(^ /AS]]+X :Y%$\617\F@Z M_$D=P;&^FL;]%DD66*8*;)E>.1)$1U(/51G(R#C72EAWAU"W?>=N[E\3OYZ> M2G6*P\]1]QJR=FE%>24=K+U;?=MN[/QC :8\3_M4_P#!M'X)^ =K; 'KPY\; M?@E-K,?A,^$K_P #6>A7%G#S+B*>)Y;A_P!V)<2O,=C[-R.#BO6_V"K^2U_X M.O?VM8I;$T5_J7@>PETGSR%,MJL6D_<&?F&,= <.;3TKZ,^&/_!OS\)/#?OY\ M/?$/Q]X^^:. Q\UKP;\ ,O#=O\4/&CZ_9.!,'#AX(O+CSAE4XD+KE%)&0#7: M_MR?\$;?AI^W)\;=!^)\WB?XH"'KXG^']M,B\?#GQ# 8>KW-H=WIB64QR! ME&]P"%#88]6*X.GVE6&I"O/WI? O$^']JD4E=]6I)M^4FDV92I*5.5&'NQM#T;.MA+F^2:LO\23LD?AQ^W#I^M:[KW !6+4?#4=O/X?B\3>':;47M8B8MZ:X#(&/ M3*E)=W!/4Y'.?L_ (+OZSI.L \ !L%\"AIK12KJD'@V'2D5A(\LGlG$[4() MRVU7Z'L,_2\]F#_@DG\$/V4_V6?%GPAT;PU<.YX6^()N"\6SZ_=M?:AXGDG3 M9))=3_*2Q7IL"!3EE"L23X=\&?\ @VR^!7PF\<^ #[_4O%WQM^(? AGX>;A .;G MA3P5XO\ % \.:ACP[<;._5K>S6&/ #8.UF8.CYP^3GEI4(PPT,"WI]=%W7 M]W\22\ L?C8WG6DZ\L:E[S]N6 ____#\247?NK>]K7L?<'P6L;W3/@[X3MM3 MW#4;?1K.*[# @^:L"!\@DD'<#W\/U-?@+^^QI_RBD_X*]_)C5K\YJ_H@KXS^& M?_!#^2X3?*K]GW]H#X;Z?XA^(DVA_M'ZA% MOAS__&Z7PL_:STSQ%\11\??#]GH*I?%5Z9](M#*>"SBL+2-9%BBK>%&! MC\M ZD(O@O9VUAX1\8>%=873?$6F0P+$]*+CRG1C^Y1@3'F&W%"A M9L]4IP=>I*4>;'MN>*_N\DEL]+\SC.SW<:O4QIQFJ4(WM/V,HM]>?FBUKO;E M3CILG9:YV_LL?LL>$OV&O\ @ZOB\"^!+ Q!?>%&^]O<;=I>HZO-JLGA^) M9FD6%?Q0}&[@=3=3G-?)/[.7PN^,?_62\%?% P"*N]?LT>) VB/' MV]>(;W3___X\3XVVWA< #B18D>WM;72Y752L#2+(-XV." "&8_MK^RQ_P0 MG^#O(G[7.D?&_P[KWO/U?XA66B7&D:G]'B'Q"-5?Q +.3YM_?22QG&5[I@57_M.>((^&GC=M"T_MK5YBQ9FEA\IR 2S__"HRJN]MJK7.H.\/-R:C)7OK&3J.5T_BUB[2 M-K_R]UY0EZI4U%JVWQ:VUC^#/B/_@IW^SM\2_!'_! OX,_%;X]Z]_P@G[5O M[.NJ1+/HFL7&IPWFHWS ;S%!:&XMWF2>>2VBMIRVYB6MRTA&937HW_!M=XRF_ MX*#__+47Q_\ VH_BI]5C\=+P?\(3I:1J0B029>,2R1.G&=; M339)9WK[0^+' :1_^#WQDTSX%:}JMYXX_P"$'_9^O!J.A>$?I62XT25[D.'$ MVI">*2;Z8$ UE48DD7&UV!Y/X\? \$\O!WI%/Q;^_W[6_PVL/BGJWQ(\6>$[R MWOO OAMOM>F>*;YHE6%A9Q6SW'GM.L;&1'PA:1RN"=9XGV4Z^):OS>T:2^R MVHZI:ZU+._+U]U--N0HT/:QI4(NS7(FWU7,WRMZ75.ZE&^[6^BO]T45\6?\ M! '|@SQ/_P $[O\ @FAX1\$^-;F1_%VKW$_B35K)CD:/-=[&^QYRZ,]3VD.>UK[>G1_-;VZ;!11661]%% M%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 444 M4 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% ! M1110 445XG^VY^WCX1_81\&-]7B/1O'7BO52$]Z=-T+P[XA/S:UK&M7"H9 M'CAACPN5C5F)D=!A3@DX%)R2W&DV[(]LHKY$_8>_X+/_S_&XV@-<^$\? MA+XL_"GXHZ%IXU:3PI\1?#)T34[BS^3,\:+)*N!YL9VNRN0^Y590Q'D-[_P< MW? Z:R\<)H7P]^/_(RUKXZ7XAT;PYX.34;O3+:.T)635)G2X^SQ6)<,B MO),LA*,3&%&ZB;4+W1I?-JZ7S6W? 2VZ/T9HKYDT M_P#X*^?.?4?^"\ TZ/%LD/P]\EB:B:SDCO1:$?Y[(GQ#\.2%CP]\5Q%9GB MD6^OSO?$&'P=:/A,G3;NV$2+=AF8A*R0Z9:N:=:T:SCO3ASM=UK MHO/1_+ST-XT[NG?:*&/?N+!49VY^[D@'-M]H^:);A\,%I; M8#M*PZJ^W8>'*UTUU&DN:]TN7[Y)-+U;T7=K0Y:-1U-+6?O?=%V:]+:OM?4^ MC**^0 V./^"S_P -? VQ_V@+KX3S^#_BW_B='IIUFT\+_$OPS_8.HZK9#AI M[=?,D5U')P6#$([!2].1VW_!6GX@:Y*O^"8WQZ\2>&M6U#0=?T7P-JMWI^H MV,[075C,MLY26*12&1U/(8$$$ @YK+%2="DZTEHDWZI7_P FO)Z,Z,_%5]JI M1>[2!+V_SOZ'T:17\!,FZ':/@___,$%?#/!:^@?M??M(K\2[-XIFYT/Q)XR M;6 #E^K:NU@(8[.Y5@7VE' >M*#L<;>05^A_VG_V^/BG\4?VN^ @EKK\BK MQ-X.M/C1:P;KXLT'1-7NK+2]7:8Z!7"S1_O7VK(&PKD9.23U1P[>(6'^ MU[14WY-QZSEE62P\L5]E0E-:BTFO+XE;H?L_17Y7?\'-G[2/Q"_9ZO M_P!E8>_''BSP8/$'O)BM-5&B:M/8#4X 8/W,_E,OFQ?,V4?*G/(-6_B=^T# MX]T__@ZV^'7P[@\;>+H?A]>_"^:4+GPQ'K%PNC7%R(]1(G>T#^2TF43YRNfY M%YX%<]%^TERK^:4?_:;]_BG;U-:S]FFWVB_ JGL_P>OH?J-17NX\ !QOX M!^-6C_LB:9\9O@5X?\<^%O$WP\D\&-/A(4T:1-5N;>S\1:6&C;X%U;Q.J3K# MY:RD2*R^4+@*?.7GAN XQ0_M1Z/XK^&>MO%GMQ*72-5NM):J;K-M;^RIFB=#(")8UB4$E7073#C!IX?\?3]G'=2L_*/*Y<_G M&R:T^TN7J57_'4/:ZVM=>^(_PXM%NO&?A?1#/ISM)O8[Y8XI+LQL"K?9XGDGPP*_NOF!7(KX=_P"" M%OAZU_:I\)_#KXK:#^W5\9/'OQ,2"/5/B#\]<\3Q:II<6[*W-HNDS(LUI&) M&"I<(2GR@ID$44+U9RBMHVN^W ?6V]E,5)7>@5OW=* 1[R,27I:ZOW=URKK MK>R5S]=]*^,OVV/^"XOPO_9F^,VL?#31 !7QF^-2C7PM;+=)-^&/A0ZWA M>-@&4WKF6-(\@YP&8K_%MJ?QU_P72^!7AA X)QD_M1Z/XK6_#:34(=*E@ MT>RB_M6SNY)A"T,T$\T2HZ,06!?E2K+O5E)4)*E]KC:.G M[.[ZZ>BN_P_;=C[(HK\[M;_.#G7[FWPE\1_#FG:I[_Q<\.^"?&!D_L+XB:.MKX.GM/"FLB/ =K;=V%O*BLP5G2W**2"6"G=7V_P KVOZ7ZGVS17YP_L%/^SWH'_!:W]KF^\'W?Q:A M^*UG96TWCJ?O'<6(*PQ'R7#6!0_:!MPNXS* P7"UTOP^_X.+O@C\7/B6NF M^%//!WQS\2>!OI:@\VR?$K3_\TO@VWO)I$B1)+O?YJ R2(N6A'W@0B&E2_>M1IN.KG=2MZNV_:^STN] J/DE44MH2M?Y7U71VZ;V6I]\5\9M9^\%QOA9^R M]^T3??2?!OQB^_/Q'T2U6^UO0?AEX5.O7.@PLJNKW69(E7*NA(5F*[UW!< MBM7X7_\!:[X)_&?IA'Q]^'!X9G\3:GX:^&$$[^)M# Li(^T]6)0S6[VLB MIYA!&#YNPX8!\]P$\\?9NK]E*[?EM?TOI?N5RQG5/W9>N]O6VMM[:GUQ17Y MOWG_=&_LI;?X=*>)YO"WQS3X<^)C;03^.O^$)D/AO0KR5=SV-SNF>"4\1Q^*_&?B;XDSK!X5\+>#.,&K:W MKP.P;X(=Z*5S(@&7!8N @8Y J7N[]^7Y]OGNNZU6@HVD[+M?Y+=_+9]GH]3Z M=HK\/OV6/WQ^_!;P#P=9Z/XMV/Z9XO\\V3X63Z5J.A^*=']ETG6-"O(DD M:6TN;>3[DB^8I.QF4[^&/-?IG^O_P_9/? 7[>7AWXJ;G0TOQ]P72^!7A^0W2 MAK6%UBUMX7N;FV4L[VXBGD#1D#@N4/JHI2:C252>FDI?NQFX7OU3T=_[RWW M"Y572CT<8^KE!2MZK56\F?1U%?(/P3_.."WGP_^,_!//4A/G+Z[\0^!?AC M[E]-ILS>(K*- =0:>.18@B06LL^]G=U"\A6)/\(!(XKX;?\%_!?QF\&:[>:3 M3\OVH=*U"+PY<<^)/#EGJ7P]:.?QI:PF)7?2MLSQW)431R8++\A)YZ4JTO91G M*2^%I.'S&W6>%YA^'_BSQ-\,K'Q9::3X1UHZ)<2:[90VK7+A\/W^%AU!O# UBX_L9KG9)^_IQ\GS.I\^W=QU MKJ;W @YN^!TUEXX30OA[\?\ QEK7PYUJ]TOQ#HWASPF6UH2LFJ3.EQ] MGBL2X9%>299"48F,*.U9*!'DC-O=2?RC-P;^]7\?D]=F5ROGE'LXKYRBI)?C;.MS?JCI&.*^9 /_P"""OGP'U'_@GO\ .CQ;)#*O)8FXFLY([T7*RF_V7V M;CS@8PHRI^\&.?SU^1O _7"_P"""KW@W _@H/HWI+FF:.X(^./P{U)?B7IGB" MRL?'GA9}'.NZ8X5$U"SD5Y(9X-T@4,)-WS9"X.:UC"3K*A;7FA%^7,TK^=D^ M:W97VU(E)*C*OT49/UY4W;[_'?)NV^A_0;17RM^VW_P5[^&O[$OQ8TCX=R^ M'OB7\5/B?K-H=2B\% #GPZVO:W#9@D?:I8@Z*D>0>K[CU"DK6]6[6O]ET5\9 MS?\ !=3X):GH_P"SU-X:B\7>-M2_:6G\GPMH^A6EM+]%DJOY=O+?))<1K'! M('20AGPT,NT.$8CF,K1PE&JULW'YK=? *^\"FG:W5))WL_P84445)04444 % M%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 44 M44 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M!1110 4444 %%%% !1110 4444 %?F'_,')G[5'Q6_9IT/X'1^&O&'C/X8? M!SQ-XF>R^)OC? PIQNM3T&SW6PBV2#&:_KW#!D^0F8B4=]Q_P"BZXN-3UU%5B=[:6>&&1[-)%>"9UPZ2CMFOH#_2BG?IM:U MNN]^@J4N2LJO^.[?X8.%OGO?Y6/Y>_AG^SYX^^/O_!IS!)X/T75_$@\%_&6 M:O#J6F6B(/+)/IL=OY,C)&HWR(DLZLP3[H$CG[A(IN_X+/_\'47X:^!3+P M/^RE<_"#2? %6K:#X5^(6DR:]KD^@7-EIOAZ^F6,)HYGE14DNMJNY6%G3;""& M8'(_H6HKJ=6]53ELITYV\X1A'?L^1/NGU:NGS^Q_=>SOKRU(W\JCE+:,NG)[M-=$]2IK]D^IZ%>VT>/,N(\C7<>,LI S^=?AY_P &X/[14WA?X'_L=_'3]EWQ?M+JWAJXYZ7JGB;5[CPS>:1)\" *TWE^2F&0C:[ACD$ @@GJS]*XY4KQ-MK1Z5:,@_+6Z:!'NNJTNMSKC5M[-]834U\DTU\T]^CUUV/P@_X)=PIW'BZ\\%R-'K_AZWFU"_H=0MGVL8VCGMWN4KMC.RN1O%?THT5T5YN=3VL=_M'^Z:OJOW2DM=KJ7-Y6Z.XJ-/V<5&_2JO_!O+]W+:YWI:A8? ^"77PT_9/_:_M_P"""D7@#XB?"[X_?MB?M'>/? FFW[QZQXVFN-0T/PY#);2Q&VO+F[T^"1"XN M9#&D,A!D&3QU_0+_(+2HTO_24_:,5068_#_5P !DG_17KZ@'Z" MT5FOON_X;7LJZKRU:,^Y=+_>?B#_P1_X(9?#+!M,$)D_!TQG5O M'_QR\:^&YC=:DGPZO?&3IX,M)XKVZA5X,*.9(C@,25F!)EDL,16O_P<1_L^_M>#OC?_P52_8"^&?B70X+SP- KVI7NB7NDP2R6<3V9N-/3R5:%D>-=H &QE(_X(M(K]IZ*Z*M2,\5"O;W8SY^7H]&K/Y/=IG-&G)8;=:'F]Z4.52ZK5.Z^?2Z[G\^_M'_!>;_@D1\ O^"=?C?\9;U?X)_#N3PCJ/B? XE6VGZC*NM:GJ7VI%D@>./;=_M7$JJ=VXC:.3[UZE_P4,:Z^'O[#'_!U7\/OB\4]?/A;P9IWPJ^S7&H_V?=7_MH224:E\OEV\<"OV]HK&FYP:=[VE*6O:=4VOSEZO8UG"$^:Z MWC%:=X5/:)OOV]%NC?[_,%O=^'YW@K]]\ 8=TOX:?LH>(KKQ]X_P4VB+>D M^'NF2P:;?:6IG$5A%ZX%U#$V62YAA#*//D8_F%A7C7[.GP4O^.@V/_'K MWPL\.WFNZC]7P) ;/\6?A_6+^UCNWJWG'EY>1=E=N5]?>:?0*UZM/VZAX:T#4=" M\.Z)IL_0E17VDT^NZM=+NNC_F]\6?#[PS^O/_,%9/VG5 ;A^_G[4G[-6 MD?$?Q)+XB*>+/AMJMY8.7XLM9+BXE2.Y_;L_ M9S^%/P#_ .#9+XDR?!.7XR:AX*\5_$JRUQ-1^(]FEMJ6J.9[:W-Y"JP0,;24 M0HR-)&'8EB<9 '![%8]DUAEA[!*$;]U"49*_G[]6EEUM< MHN.GWMZW? 2\C\6O^#=@;2;5O^">W\4)MKB_P#!9.%%_P"""\ P3RD"\)&U75U9L6_RO?\ XXT.7/#WWI*G?TDY7 !V_$ #WX% "SQ%\9 \@KS_M .%2O!OA8^3XH\5> Y- *TDNXB!N;BS6.$;C@*&9U&[MG-=%_P00_X*S?"C]C M?]BSP+^S)X^TSQUX?^/WA?Q!>Z%<^"8/"6H3:C=S7.HO(EQN$9A1 MP-YED0 MKY3D+MVD_M!!6.%O1IPH[Q4(P?=\DI233Z? &TT[]]S?$7JRG/9N.3+*MW&N%7"M$X#? GQX2\O\ P=9ZI:M9SW]FDJY:.HPL2P5A=1@:]TGS-N0./Z#**P=)O#NC M)Z^R=)/^Z[:M=96BEI9;NUV:^V_?.K;252-1K^']HGT5]>KV5[^X0? MD01+ _M .&7'@%F16,>E>'VO\D9*^'U&+IZ'!(_$T]|KOQ3>?L0 \%"?V OVG_B3I>O3 M_!;0_A3IOAS6=;BLIKU/#M_)8W$;2S)&I=3 _*, XR&:01RA%9DQ7[NT5V>V MDJ]3$1WE4I[_Y)*#CTW4GJK69QOHI484);1I.F ,\HROUM9Q6FMU<_$#]EK] MIG1OVQ_^#JJ1OB3X4T/Q'I_@GQ#\+KA?#VJ:OI.VF'Q3:11LGJHP13(DAMW< M.B.R@L(>@Z#E/^":Of=&B_\!+GXF?MD_[XD^$OB_Q?\9>.]3USP9X6TGP M]=7UWXQCN5F6(6IC1D"E467S9"]&-\]6*LH_>JBN65&+I*C]GDG![V!S]HWV M3OY6WT73-249NJOBYH379,$.1*U]5;S3\I_,CX._9G^(/[0'_IQH,?2@M_Q[+X&^+-YXAUW2+.-I;BXL(5FBD8(GSN(WE1F5>0H9OX,U/9]2J\\G+=/OKM:W8_G#_P"^'@~[(7BO] ME+_@@%^Q-\ -'^D36WB9_BDEUJ.C72B5[7[:VH7"VKIR.PCF4.G.&+ C.17] M&FD:1;Z!I5M8V%K:V5E9QO]!;VlO&(XH(T 5410 %4 8 JQ16]6LZCG)_M:FY_?&,4OERI^?W\L**BTI[1Y^\ R:4F_FY;>7W?D? K'-*XKI7_9(&_]EKG MO^#:F%+GPE^WG'(BR1R?$G5596&0P*70((]*_9&BN*=#FH.C?>%2'_@=3VE_MEM;KO=;'5"IRUE6[3A/__\EOGO?IMKN?R]_#/]GSQ\??^=#3F"3P?HNK^ M)!X+^,LWB'4M,M$>62?38[?R9&2-1OD1)9U9@GW0)'W"1[=_P %G_\@]+\ M-\ @IEX'_92N?A!!/BK5M*_$+29->UR?0+FRTWP]?3+&$]HRV4Z<[><(POOY(3ZM73Y? 8_NO9WUY:D;^51 MREMW3D^MFNB>I_/[_P %1/A7;_LU?\%^/&GQ.^.GQ#_;$^^7P<^)7AJTM=!^ M(_POU"XL6MI8K:TC:PNI8+>=_+,EO(3"J;BQ@DQM)(IV_8E^(?[*W_!/+]C' M][?]HSP3XH^/7Q:\)>)XK2WU77?BE#^[^(\8[A88;&22T@GG\V6\4TDR'& M=WW59C^QE%%O]EQO;[+ES.][W?3HMFT^O5*IS5U6EJKQ;7G%)*W;9 M/[[6Z?S,? \$G/A!XB_K(_M _+Y_%/XT^$;&P\?M*Z!=:?HUSMG;_A7]S?3 M@P0_6VNT36VX.=RQ7DN3NBDW?TST45U3J4%!+2+=O*+=U%]VKOWWUVUYX MP;FZC>LK7\Y)6K+'D,F%)#,5" M494I5VI15]7Y2<7]S3T>K2;VU*JP<)PI[RET73127WIK7:[2WT7V!17Y3_\M!'O_(*^_%;_(*&_P#!4;XSZ9XC6X_!NS\'P>)/!'AZ[TVW@GCLGN(S$M 0EFV>>6N(6,NUY"@$HVC #'R&_\ ^"G7[7_OM_9^*^[:W@/XD^"M_^# P-_M_$T]GI7PHN_"MO.S;2?1ZJ_[;45^4^L?\ M%!/CU_P55_;/D^%OI,GQ/T+X%>&_''PZTGQUJ_B"\\.VOB2]U6[U2VAN;:P$ M=P#%'"L=Q'ND0;PRN? F&$KZ:_P""\)7_!0'Q%_P %$/V.9/$7C>TJ[S^(:@SQ M#^?\ @_.R+.XO;0H?/B4]HKQR1L5_G;L8&!6JIRU3T;N[=T]^ MJ=K.YFZD?=:U3MKV.CSI/K=QUVMHO>^AJ?4445!84444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 M4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444

**** "BBB@ HHHH **** "BBB@ HHHH M**** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ H MHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BB MB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** M "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ K\@/V M_\ E_\$L/"UA#K6C^(O"C_O%87FH:%X3T&W, MES=PVL322W,\N"MM:H%)>4AV"J[+&XC?%3P' P %S?@ XL_82\3_ !]U+4M> M*^'O M]_8WB;1-6TQXM=T35 R(- /DMADM.S2:N"2678^WY5_X.2_V3!? MXO7MU\1?AW\.?"@CXT_#_X:ZY#JW@[4+V"2]\4^%98I3=B.V):5<+]I Pd1 M4LP>)HPXZ' _0A?M7?#KXM:1\0AO#C U%\(/V>OA4 $7PCKVBQ>*)'MM.B MT7QQ<7UO)+!URS7);S[MD60@/)(SY&TED58:,JM.:>DE^7/RW71^[;K?GZ)-H)WTQ%[;IS2]W6_G[]=GU7O/>UN6VK??$#_@X \&> M& CW\0/A_P"%/@'^U\ %R]^&>L/H.N:I\/ _+#KNEP7B#+Q>:EV&# [E(= M%.4;CC >#_ #[0/%'[?_ Y.G-;QR ;R6_EP[///[UF(8D;GW>6?%W_@F=>?L?\ [%WQ^_::^#'[_[5O\ MP6Z^&WI*'B+PKX:N? GQH\=? $#Q+X=C\5W@OP?X5_M/7_#6FL@8SZG 946W MV"*NN]F4]!/VX?@#'H'Q_^& ^LKKGA3Q%&S\G,4L+HQ22& M6 OFCD1U*L]I,C(() _*W_@A3\)?=<_ := A_ &[XA>, [>UT_Q+X[^# @W7%ME M^51% IVGR2F!3\WD^8X/&<%ER2>;]= X-5?MG_#''QFW_P#(*_X7-X@_LO;C MRO\\NTSLQ #QW5UJFTW"HM7&4],G+55/E\]&G? NGWTY7/2.HI)PB[]>:E[3F M\M4U;LT^FOZ?5^0'{&__ "N2?M8]DJL?_2;PI7Z_P!?SX_'CXE_M+_ "O_@Z MG_:9U#]E?X> ^# B5\09O!6EV^H:9XDN4@M8 +.F^'6EG5GO+0>8)UM5 \PG$ MC?(<;EP-C^@ZBO_V0O$WQ\+\8_LT>#M3^,?A[1_"GQ/O=/63Q'I&E2+)9V%U MN;,<3+-_"N-O25^O6O2* "BBB@ HHHH **** "BBB@ H MHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BB MB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** M "BB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH M**** "BBB@ HHHH **** "BBB@ HHHH **** *Y/2/CKX/U[X MLZGX$L_$6EW'B_1K9;N\T[)LSP1G8!/^''7'P7FT>'7?M7Q=\1OQ? V/H>GK'/>VELTH$UY)OS' !&)1$\]2 R[3Y M,R)(M:_@KXT_!_\.:+_ 8H^'\@=M=)9[[^_EF6 M1X@]W2R7=Q,)8[B*[Q=']EGX /M^BL_PG#JEMX5TV7/+BQN]:CM(EU">R@:_M"VGN @$KQ1LSLB%]Q56=B 0"QQFM"@ HHHH **** "BBB@ HHHH **** "BB MB@ HHHH ^_?^"P'_ 1Q\'2%\1/AHVH) ?>&?B[X;T>^'L2"OB2PU-],(^T0N MAL[UTCE,EE(7(D41EPCR!" [A]WA/_@@K\\K?]C'Q3\'O$]AXE\8KX_NH-8\ M3>)];UN2]\0ZCJD.82*]%XP!62(0"!4",6<,C"1PWVO12C%1BX):/ /F_P#2 MK2]4GNBW.3E";WC>WS5ORNO1M:,.^2OV(_P#@C:\:? V)OC+>_$@>*OBK\6?B1 M<:8 $MQ%/O\'2\'7=2TO3Q@_9+9A%&D<60?X2P#,_P5B!\\9?\&U'[/WB]XE M:]],>O\ QBT/P)XLUM?$,N _#+2/%K6G@K6+P,'+S60BWX+ '"S+MP FQ0 /T M(HJ^=N:F]UHOOO\ GKZZ[F<4HQ<(Z)[__'6_+3TT/D#]LG_@BA\)?VO_!YH_M/BRUUKXC?!WQ=H&B?\(Q'K7PRUU2#]W=:0!M73YL121M;J. H0':A<[0 /=O MV2?V2_ G[#WP!T#X9_#? 1ET/PIX=C9;>$R&669W8O)-+(WS22.[%F8^N!@ M>DT4HR<4XK9N[^^_YMOU;>[!I-Q;7PJR_!?DDO1);(*_(#]C?_E%*_7^OR _8W_ .5R3]K'_LE5C_Z3>%*0S]?Z*** "BBB@ HHHH * M**** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HH MHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** M"BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH * M**** "BBH[N[BL+62>>2.&"%#)))(P58U R22>_]$E?D=_ ,%Q_P#@Y'T7 M]B2_N_@]\"UM/'GQVOI!h\LMO'JLL?"LSD*JLB@BYO,O,PL//FU+2;^XOX=)2*>)";OS9[:\6&")G:U(O6FB@ M'F@:K<-&997<70!^REI0?8U)4=!=QW]K'/"ZR M0S() (W4Y#]1D$?A4E !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M %%%% !1110 5^0'!&__ "N2?M8]DJL? 2;PI7Z_P!?D!^QO_RN2?M8_P#9 M*K' _)O"E 'Z_T444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !111 M0 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M!1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M!1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 % M%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M44 %%%% !1110 4444 %%%% !1110 445Y9^V-^V?\'?V"O@o5]OQ$^) B*U\ M/>',&U-QW7.H3D$!L6T7WI9GP<(O8%B0]LP .S^*?Q4_ P"">L>+?%^M MZ;X;\Z!;_>:CJ>H3K#;VD2I69CQZ #]20!DD"OY\ VZ_P#@]?\ '3 @4K ; M"N/V:OV3M\U;1OA*S[=);^_FQ]&WM>,. (_B%]]NJ>(?&%W:A;O4#PQAA M7?)\BV# $1*3G:"[.P!V+7&_'CXZ^'_V=/AM?>)_$=SY%E:#;%$F#->2D';# M&O=VP?8 $D=FQ"2^"?/[3OQ_:\9^*O$&O:;9V:@* *8]*5(=K13AQ^[23@ MR@)NWL>_VW&.0 #VWXX_LT^"_P!H^UT]'QCHXU:/1K@W%]//DBV$XW E&&5; M:.@\<"NUT[3K?1]/@M+2"*VM;:.8H88D"1O(HP]JHX J;B@ HHHH *** M* "BBB@ HHHH **** "BBB@ HHHH **** "BL[Q.XNTKP#X7U#7-=U/3!H5T7 M2:=[N^'U"_N4MK6RA12SRRR.0[(@DLQ !)7:,ZCO;:,.&1)895#HZ,&5U(MK"]_"'*)***** "BBB@ K\@/V_ ^5R3!K'_LE5C_ .DWA2OU_K\@/V_ ^5R3 M]K'__+)58 \ I-X4H_7^BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HH MHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB M@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** M"BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH * M**** "BBB@ HHHH **** "BBB@ HHHH ***^ /^"V/ !2'X?_ /!)OP_H6G_ M &'QE\-5MM^D^&4F_=:<&'R7>H.1S"_JQ@B27HNU=TB 'L/_!4; @K'\+/ M^"47P1;01X\OOMVO:BCIX?\ "JE*O]HZL!O9 ?\ 5PJ2\S#.@/&YRJ- ^+W[M+'[#7[0O-!T5^TG;_&[]H#4]1\%? #2;AX]&T^S#0QW$(?YK32XWSP2N)KUP MQ++M&\KMC[S_(0;?\$+OBA_P5<^.2_M4?MM7NLZAIFMNE]H_A6_W6]QKD/+ M0^;&.?9-/4']W @5I<_*AS+^^_A_P /V'A/0K/2]+LK33=,TZ!+6TM+2%88 M+6)%"I'&B@*]*H "@ 4_^$NB^!? 'AW3?'WA/P] +>QTZ MQCVQQ+W8DY9W8Y9G\AT_3-A:XN;B8X2%%&23_@.3T%?G1X MH\1^+O\@K=^T*FC:2.O1/ACX;F\QY&'$*\(\Z0=&N) "$3D(">\]B 'AGP_MXN_X*W_M"MK&JB!T/X8^&IO+2-3Q"AP?)C/1KF0!2[!$&.P16_1;P2X0TSP! MX7L=%T:R@T[2],A6"VMH5PD2#H/ZDGDDDGDU1^%OPOT3X,^!-A #?AVRCL-M*TR/RXHUY+'N['JSL

23704 %%%% !1110 4444 %%%% !1110 4444 % M%%% !1110 4444 ?B#_P=P67B2T\4^ =4\9:+X]\0?L^0>9-9MVA/3.EC8> M*Y(W33KK40I53$CO 4WL/NR[0WSQR>J_L ?L4^'OVO/^'5OQ'^%WP! _ P!9 MN_AEXL\01RZ/.I^DW\.:GP[M/DEGT+_Q=+<>2^$P6$)*.)PXE8UZ!_P<(Z; M^U#X2^" BKQ5*K _$;Q;\%+KP!K6B^/_!-Z+*RN;%9+6<#6;: [DC$K^4K@0 M)>2)4+&QD+!)Y7^S%_P3N_:U^# _P(^-'QD^$'T P^^!OQ@^'+NL:%KFE?#RV>S MU721IUA;.DMK/.8O(2ZNS,\C21_+O49=/.9HXPD8^QJ0J+3\=:M[27VE]I-7 M?)'E[Q>V*YG.C*#[6W;2"5U+=-7U3TYGS:7C(X__@D/X8* LO?\%KOB7V/ M?A1I?COX(?'S0O LGVKX?^.Y[V+4/'6H07!C.NVO\

?)$A?C;^WQXD\1^8_VF-&\4WVK>&_%-IKUS WANVM+N&.+3 M[>%7$(M]DDBX*$@-A2 "#^@OP"_9/_:&_;A_X*E^_OVC_P!H#X4^'_@3HWP= M\,7NAZ)X9M_%5OXDO]3"'YPR@8<\"_P"'7_[8 M/P/_&3OBC^Q9X$^'G@KQ%\'OB1XGGO-)^*=YXHM[9?#FD7,\^RDH2OM/VMT^;:.X6:3MRQ3AY.*?L5)NW[OG M@Y)K>/LFI*V\K2LNKD]>ES,_9[T'1A @XA_X**ZQHGQ^_MW6O-7P]^#WAC6 M]&\-V>]3Z;90ZQVGVEU<:B5MW7,RM<2*N21M* @]NVOKK_@V=_:%\4_&G]@ MGO)X>\6:[!OB>\^$GCW5O!%E]NIR^=>7=E;^3+!YLAY=E628"X54=*\VUK M_@GK\?/^"5O[:C?%7]F/X:,\>(K3PW>:==Z7:06UM? MB6X_=O$T=O&6C1MQ0\'UU.?\!$K__()_> (O^"=_[&,GAWQO=Z5>?$#QG MXAO_!AXG.F9-G;WMV4'D1,>75(XXU+?WMV,C!KMC*G[SIZ0Y0IK\W6O%I? M]>^;WME%]/DN649VA[365X6ZVB]*4DW_.?+:.7NVN:UM3Z^K\ (;W]O7X3 \ M!.[_(.T?VH?&OQB\5 \(?X9U3X?Z;HEK>?V9>;AYMY)8>&IDB\NUBED&8[> M9MQ4+\F"7,B2+R#PR@^U=A6/X ^'N@?"CP;I_ASP MMH>C^&O#VD1""QTO2K*.SL[*,$D)%#&%\R3PH YK8H **** "BB@ HHHH M**** "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB@ H MHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB MB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** M "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **** "BB@ HHHH **BOKZ'3+*:YN9HK M>WMT:6665PB1(HR68G@ $DFOPH_X*Y?\'#?C7]KOXL_\,P?L/P;IXE\0>(9 MVTK4/&.B\S7I.1)%ICY CB49WWK%0%#.A50)B >W?\%S/^#D.Q_9&UF[^''/[M/:Q>./CKJ,PTNXO+2#[?;^%[AVV"%(U#"YO]O 6$ JC$;PS Q'CO^") _!MY M?>&?'$7[1/[6[2^OBUK-$_:CX=U>?[+O4&8D7%YGD1DE(N"=S@> M7[9 P0O_ .#=SPE_P3*TFU^(7C\V'C;X[:A"G0LY KYMEX8#CYX;+<,M*02KW M! 9AE5"*6W_IG0 44A:,.G@#J:^0?$__ 4?UCQW^UWH/P]^%ND:?XCTE+]+ M?5]0D5W$T88"=X65@$CC3MVNM(U> M+R;B)7*$@$,"&'((8 @^]JC\&/@EX;_9^\"P>'?"NG)IVFPL9&&XO)/(V-TD MCGEF.!R>P & !UE% !1110 4444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !1110 5^0'!&__ "N2?M8]DJL? 2;PI7Z_P!? MD!^QO_RN2?M8_P#9*K' _)O"E 'Z_T444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 4444 %%%% M!1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 % M%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M44 %%%% !1110 4444 %%%% !1110 5S7Q@^,/A?X ?#/6?&7C77=:\,"%O# MULUWJ.IW\PB@M8QW)/4DD *,EF(!) KSO\ :O\ ^''@/PO\ ^"8K&RCQ)?ZU<8RMM:PY!DD/X*HRSLJ@L/P9/_ T]_P ';GI28_X^ M?A7^S%X0U'KAI+&S(!Y_M#4BC>(;_)9A_P!X ;WI;\ P4Z^/7]RM^T M+'XM'TBVQ)>74F)+]6;C: US=38!EE;_M'7 51A555 4>R4 %%%?(_!1CI0"X^&O %0 $DMYXYUC:,W.]H"\FF+)@+' M&!S]H?(P!RH.>I7 !S/_4, :1U3QKXI_X4O\+?.U'7-5E^PZM=69R^X\&T MC8=#C/F/G"@%<_>QIE^PU^Q9I?[(WP]VR>3?^+=516U74%'[B"+/(B4_BQ^ M8]E7F?\ @GG^PC!^S'X6_P"$@\0QQ77CS68LW#DAQI<;<^0C=V/\;#]> 2!]E.MOIF@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH ** M** "BBB@ HHHH **** "OR _8W_Y7)/W5?\ LE5C_P"DWA2OU_K\@/V_ P#E M?!K]G +?A &_NX@_LJ M:4;6#[?I_ARY9M@AC101>7H8!$H*(^ ^"YE:(^=?\$?O^#:[??&WO)'I1?[. M4!UXT^(.O7 U>\U (ZM/]K\J9L,L^J,21+(.MJ/W<8 #N8D /$?V%/^"3'Q MW_X.%/CQ:_M(_M=:U]^C?"Z?$NAZ)"&LY=8M<[DM["'/^B6'3.QS)-U4LSF9 M?Z!OA+\(_#'P&^&^C^#_ 9H6F>&? #&@6ZVFGZ9\ AM[6,=E4=R222>6))) M))-=##MO[(JHB *]J,!0.@ IU !117A_[;'[;>B?L@^#8V:.+5?%&I#_B7 M:7YFW! $5 /<*\5^%_[!_@CX7_ !\UfXC1?VC]GB#6KN;[MB-_(LL>FO.Q:0Q#:#N)9@&8DA3@'JLP _[/7Q)U'XP?!7P[XGU:1WT"_UJT%S M)8NQ;R@2=I!(!PRA7&1G#"NSH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **_)+_(-0_P#@I1\5/V<-'GAWX._#_MWX@Z3\%[*Q3X&USQ1J'C"ZB_T[49+6&7R=(T^9B%@N)F0*)%(E#31&-@P"R> MC^%/B5_P4A #G_!/[Q7H%OX)\+>.?C38>((-\)^- ;F]TNSM=>T&9"W]LS6 MGVG8ES%@ PN%R98SYR_>Y'Y*S[M>ZG+X5NS6R>K2W=E^DU%?EW\!/VK_P!I+]C' @K_/#C]F?XS_&+P]^T1!/Q M=\+76MQ:G;^$[/PYJ7A.XMX[F3#16GR/R"V90TGS,6R FPA_E&3_@M'XW_:_M _;6^:.A7?I?VA_LQ^'=*\??GAGP7H5S\)A3VJY90/NI 0>J+W94 4?AQX!CE-O/K- =V^;M?378EII2T MTJS^('@SQ#?^# _$XTS(L[B]M"A\^)3RBO')&Q7^]NQ@8%5'/.G*+Z-KSBI MZTC1Q"_B#QI%X9"7'B^[T9%F'AB!U#)N3[]S<[668VL:80 R;=SV\<_$ZA- MP62_9/TS5S8S?M&_!@7"LJ-M\6V3HI..KB0J,9YYXY!Q@T ?2E%<-\(_VG_A MK\?TW>_B'X&\;+MWYT#7K74AMP#G]S(W&"/S%=S0 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 5T[_P42_X*;_"3_@F#\&W\7_%#7UM9+A772-#L]LVK:]* MHYCMH" 4\2^)8TWP_X?T2W:[U#4M0 MN%M[6SA499Y)&(55'J37X&?\%$_^"[7QC_X+_&N;]FK]B'1O$0T'52]MJGB MFV5K2_UBV!V22"1L?8+#D;I*R2!E4^7N,;^>O<_M;_\'9GQ\M!)\)?V9=! MU#YN9&TNW*GO]QM3OPO^[%G_ECN^?\ <[_@G;_P3\ AA \$P_@I'X ^&& MA+:&<(^KZU=8EU37IU&/-N9L#/5MJ*%C3<=]C)R ?/_ 14_P"#>+X=?\$K M]#M/%GB V/CIXUW.&+GO!+#FTT/F.IUV^5H]\)TP/AU]0#E\UBT7C_B0$UW\]?X MBA/&GXN>;?P7LPN=+L+E<+:?$?!@4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 4444 ?DM_P=!?';P5X6^%@\$_%_P" S>)O!.O^%]4G M\)?%"8XDE/A/Q.L.AMK-XHH?,A$SI;_/YX23.&C98C*_*_[)/_!1_P#X./ #>,/%7P8\0^(M+T? X"VGC&.YB2\U"6RDEU.XC618Y#IT3!6&T+YA MC"05W=Q^^'Q:^%6@ '3X7^(?!GBFP_M3PUXJT^?2M4L /D@^U6TR&.2/?&RN MN58C*L&&>"#6UIFG0Z/IMO:6Z>7;VL:PQ)DG;J@ #)Y/ [UG"#C3J03LYZ77 M;F4G?^]9[^'O_!NG\?/V=?%.M?[2]DWCGQ\=9OC)^VS\<+>:<7"W&A:O!;:+!:A].@FEM$M@%SB]W<$\]L*Q-M0C8N96_MF?\ !3WX,? $+]AWX]_LQ3_LVW/PH_:'\4:I6RTLKW]W33MKS7 M;YOBU,Z,YTVYIWQS*5WK=I>]WZ;?%OQ[JWC>RTK4XO)O+2RN/)B@\V\HS+ M!O A\+*>A%?HC16GMI-N4M[2BNRC*I[1JW>Z2O? 9,7;9E[)1C'9]M K^2'X\?L4^/OV[_/@ZG_;9\(_#KXZ^./V?=:TIP5I>L3^(MO#:W+75[;IOAV%K)OA(NI5_+9YXY#F0C,"_*3@K_$'5^0'[& \ RN2?M8_]MDJL?_2;PI61H?IO^R%\% ?\ V6F? M5[N(_@'RHQ&_)!B[)M?\ !0[_(*J_!?_(0J?#*U=;^*% MBPE.SOKQ"VF>'!!+=;SK!'_/"WW#Y<\&20I&#@%P2 ?QJ6?\%HOV]\ A MQX MWU3PO^R9\\ 4?AQX!CE-O/K- D8Q=1)ZW.K3[88'(PXCM@LHY :3]?1?^"9G M_!L1XJ_:<\>'X]?MR:WKWB7Q/XBF&HCP==7[M=3D\H=3G5MR #&VUA*A%"JS M* T(_<+X>_#GP_\ "3P98>'?"VAZ3X.T#2HA!9:,IE!'6EH@Z*D: *H^@H M^,O^"?WAO]H/_@GW^RMX<^&?O\,Z/\ %3QC<><=<\0>$#*MK=7TTK2R)K<\ ML2M$V7>9]1*.YP6165KDQ+=^3? &#_@U* 9^_:>^(FO>/?B+KGCE_'2C"YDU+ M6IO#,UEHVEK=R&;=A_M C^/C'YPEJEHQEME\'IZ;#?Y8$E?W]L,9HR./F$;<@\<\>3ZI>_\%4/^"%"_M;[Z\N?CQ\)-';,[R32>*+! (%_O.P74K1%7O\L*Y'W@,5_1+10!^:G_!,/_@Z M"^.?[^\ NT.FZC*>_MK?85&). $E6)R2 H?K7 MZ5U^=7_!5+_@VM^'!/_!1VVU+Q'HUC#*_BID_!G]]71-5^('P8F/DZ-]T$QO9+>_MV4A2- TR\?,YT2#&;.?:R#:CR0<. ?T645P'[,?[4G@']LGX-Z5X_^&GB?3?% MGA76%S#>6;Y\MP 6BE0X>*5<@-&X#*3R!7?'T %%%% !1110 4444 %%%% !1 M110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 4CN(T+,0 M !DD]*R?'OC_0_A7X+U/QXEU?3= T#1K=N_U'4+A,>VLXE&>21B%51ZD MU^_%2_@O?\4 _^"M?Q_O\ ]F']BGPQK6IZ+XFGFTS5 $;6VR\URT8>7-Y?MF86QL2K$/-*5=E#]UDJX!^H'[:7[:7QSTS]F?QO\1/V(9 1YFH:?;QK_I5I"H;:I=&NR6:%O+2-KK\PO^"9W_! ?XF_\%7? MB38_M/?MK^*-8UG2?$\<6I:3X;.\VWFMVK?O(?-,,A;*QVM\EO#M>)/#?BCQ#'I<4%%\3+(KYFA0(-KVS6LV6O+Y M5\M8+HH(G^>2XC#0B.\^I?AA*]$^''?P]TWPQX=M6M-)TM&$2O*TTLKN[22R MR2,2TDLDCO<LINS#DDF@"S\/OAYH/PF\$Z9X,+Z-IGA[P_HMNMK8.:IU MLEM:V<2]$CC0!54>@%;-%% !117G_P"TE^TEX<_9>^'$_B'0#/ZQV5E&1Y^H M38RXQ_.NBCDT >@5X5^TM^P3X;_&IOBUX<\2^(M3U46NAV_P!FETN%@(;U M-[2 %OO)DMABO)4 J1FIQV%/VHM=_;Q^&NI>(=9\)X?AAU!K>Q>)V:*\C M!)4L,DJ?E+#@D'&"''!F? 0!7TK2K;0M,M[*RMX;2SM(UA@@A0)'"BC"]JC@ M^K%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !111 M0 4444 %%%% !1110 4444 %%%% !1110 5^0'[&_P#RN2?M8 \ 9*K'_P!) MO"E?K_7Y ?:_ P#*X)^UC_V2JQ_]O"E 'Z_T444 %%%% !1110 4444 %%% M% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !117X[?\'(^ !<_5OG).G[.O[/UW>ZE\;_&1BL M-7OJ&!FN_#T=P0L=G;!_M)OGW #'S1(X(P[HR'!+_P#!>9W_@X\0_P#"Q9/V M5OV4)+ [Q#\4M>N_[#US7]$7SY]/GD.PZ=!Y7.,O)(DF'^HP54^8&;+V'_@@W M_P &[GAS_@F_H=E\2_B?#8>+/CUJ,1E,[,+BS\)!P=T-J3P]P02)+CKR5CPN MYI+_@WZ_P"""6C_/!.?X=O?$#X@VUEKGQ\3VV.VZ)$\)?A:"09:RMGY!E. M<33#!QRBG8"9/TPH ***** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **

MT5\YH!H^F;l@_N!R-V.-Q&>;)U_X-5?MG_#''QFW_P#(*_X7-X@_LO;C MRO)\NTSLQ_#OW5U^Q49.G+5\LY!JN6JJ?+!S3OW3Z;H^"M+T>?P[X,:Y6ZLK=]\.S-
>MY%I=/Y;O!'&"Q_M&_LT>#O''BGP+K'PR\0^)=/6\OQ"VJF0W_MFB2%F!AE\R*%]P_I^:)#STKTB@_HHHH_****_"BBB@_HHHH_**** "BBB@_HHHH_**** "BBB@_HHHH_**** "BBB@_HHHH_**** "BB MB@##^)GQ*T'X_#S6_%GBG5;/0_#GARREU'4]0NGV0V=O$I>21CZ!03Z^G-? MSJ>!?#_C'_@[' X*W7>N:P-9TA 9C^$K[8X,F(QV)?*6XQE1?
7S)ND8'.<2 M% <6C;GRHPWHW_!PA_P4\8_\%2/VQ-!_85_9W"*$VE1FVU5+3;L>JZ MG(%^'INY.1$6*@*GS.D:1J 54&@#[?\ #'AG0OA'X"L-`TFT!P_X:\.64=! M:6L*K;VFGVT*!411PJ{B*_PKQ^W_X*0_"[5?G=I/@32M2OM;U#5[I;*.^L M+<26$4S'"]92P+9.!NC5UYY(YKY9T_X=-'G_(*=:A'?>(;QO!GP\=O)#&T;MQ6KIG@O09#W+>CR$+UPP^[7US^S1^P?
\OV7TBNM'TTZCKZKM?6-0Q+=9(P? M+XVQ Y(^0 D'!+4 >S5Y%XU_82^%GQ'^*EUXRUWPM#]>MWNPSF;YF,$K*]H& M:(,$)V]!R,'N,\UZ[10!0\.^%M,\&;3'8;/IUAI5C%]RVL[=((D^B*!^57Z_M**"BBB@_KS_.,/[+/P^^/4+#Q5X5TK4YV&!=^7Y-VOTF3;)CVW8]]] HH M^#/BE_P29\1__"S7O^$E^"GC#4+'4+?+)8W5T;>X ZE8[A,*P/3;(_-6-1?# M3_@I]X[^
/BF+PK\=?"E_'(N%_M.&U$%UMZ>88OB*9<_Q1%>G 8U]\5S/Q5^_M#?A?XX>&&T?O7HECK>GLC<$/&W^TI!]Z+7PY^)&B?%OP78^(? M#NH0ZIH^HH7M[B+(#8)!!! *L"""""
00016Y7/?"OX5:#\%/ MEX;\ 6"Z;H M^GAO)@$C2$%F+,2S$L26)))/>G^._BGX;^%\%I)XDU_2 !COYO(MGO[M+<3/ M_=4L1GW]* -ZHKRSAU&SEM[B*.>"=#'+%(H9)%
(P58'@@C@@T^*59XE=&#HX M#*RG(8'H0:=0! // P >^\ @E?A_^T[#^V!^R2]SIO@F"Z;,Q%H-M M&9+?P\)7'F120@CS=+F. 4_Y8-MP5 C9/UN_X)*?\%9O4J_P5H_9UC\6>%9%
MTKQ1I"QV_BGPS.*&NM"NF!QSQYEO)M8Q2@_,%((5U=%^H.;?!,WV'5K+9;^(_#MQ*&O/#]X5SY;XQOB;#&.4 M*Z@*RNB_2] !1110 4444 %%%% !1110 4444 %%%% !1110 445\[_/!1
MW_@J!\)O^"77P8D\7?$S7!%(D<#(W2,5C3(W,"0 M" >O?&SXW^$?V7!W!V(CCQ/"GPT_:D_P"#M'JH.+Q'XGGNOA9^S.X8U!A:OQ[G ML+;:=K1VRG;]OU J2K3L D6YON
B)_WQ_8H_88^&7_-]?X&V'P^^>%GANVT#0 M[3\EQ+_K+S5;C #7-U.C=+*V!DIG@ !5"]]] #QC_()&?\$?/A=_P21^%7V/ MPU OB+0_]\"IX@+8J7L"K>:@>&,,*\^1;!@"(E)SA2[.P!K[#HHH
**** "N3 M^,WQ@*_!/P-O?$[Q>EQX.2ZD-LNTL)G\\VA8E(%!4+:@+M#*%=O+_]SOH___M/X]?M ^(/V]_VV_#W@;X8ZEK_@WX(Z#X=\1;7+J#LPC\,Z3<7^@B_MWNT;=#
MIT4\%@#M606:SR()%CC'V7]B_P!BC]@'P_^Q=X,M+?0[2VO=:6V6"35&A5"L M>!^[@49$47L.3QN)P,=O_V5OAS\&],T"U\,>#=!T6#POI-UH>EK:6H'V6R
MNFMGN80>K+*UC;E)V2Q@3),*ZWP9X-TOS>/7+1++*#3='TF!;6RLX!B*UA M082-! "BC 51P !@-4 :-=%% !1110 4444 %%%% !1110 4444 %%%% !3 M9)%AC9F(55&68G
]37)>&/C[X*\^.[SPQ!'B?1=2U^P1I+BRMKE9)(PI:.MIP<$@$ Y'2%?(?Q]^ O[1W[7WQAUSP_J5W!X1^'=I>R1VQ6Y5;6ZMPWR,4C) MDG=DPV'PH;(^0\4 >K_)%_&=A\0QV48M5*_<^=
K?PU\1?!&]:A%X5M)=?N MXK>P\6Z/>7A6VLUEFD:*WAEE9(T9]|"'FN#_ &KOVMO#_P"TI\/O"/A/P;X4 M^_M[K-[\2? NHI]N^$'BS2K.*VL_%FD7MU/+=7>G16\4<=M;S2,TDBC"'G)
M/N_[G(!>A?L@>!+K2=)O+W4!O4YEN+^]N<*9W5=H"H.$0 MX;@/&?\ P,:_!;XE_LB.*HU?OA\7X5UG7;?O3XK\00>(X;K6O%^HPV!01M>
MW%U:2B2*,.O1$CC4'YL9))-0VBI4(]+A;1V_!\W_**4DWW:3+E.4G&3WC>WS M5ORNEV3;/C'!CO\X(P:=^Q?\3_"OB#1_P!!#]K/O9I/A"!K6R\\>*?B M_X_M:DA-
N]ND4EDMM&I2)6#1JI4(T;$?=Q7+_%#_(-R_@!\5/C-KOB.XU3XJ;5X M2\6ZXGB3Q%\..*\4-:^"_$&HJV\W%S8B,L6+X,Y\5 (PH XK[VHK1S;FJCW6 MS]7?\TGZI/HC-)*+@MG_
.;[M&UIT;6S/D;]MG_@C\!+?VU?B9I'C?\ X2#X ME_"7OQI.D'PZWB#X;Z^ !OK_$LYO8SGRI$> 9(' V X.TD] !{A^R3^R7X$_ M8>^ .@?#/X;Z,NA^%/#L;+;21W8LS'UP.
#TFBE%N.7 M&.SU?WW_#:?]V!V.24FF^FB +\DEZ)+9!7Y ?L;_P#*Y)^UC_V2JQ_])O"E M?K_7Y ?L;_*Y)^UC_V2JQ_])O"E(#!?Z*** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "B MBB@ HHHH *_O_@Y(_X+&Q_\$R_V5#X6\:G&GQE^)=M+:.)Y;@RZ#9\!-J; M#L5Y2'/64[OF$3K7U5^UO_P4(\&?
LI(;"7/B'O0P!72+.8*T(/.Z;3!$OQT& M"OR/E0QR/OX_X)6 \$_O&O !8# @KA\1?VI/GZ]KK2@GX=^)'L]%LXR9 .U._MMB/LUE"K?\NEDA1G!^_ &@$\=?V+?A'!/B>P\+ZE:?
$_XX M2MU]6LM\MUX9TZ20NM@\S'P._;*?M%^#DUOPGJL6H6W"SQ'Y+BS?^Y+& M>4;]#U!(YK>\;>!M'^)'AFZT;7M-M-6TN]79-;7,8=''K@]"_H(Y!Y!S7P7\ M'/$,,?AOQN?D6WR?
LNHL!SY+'E6X/[MCGT+B2E[F+1(I7&ZQO4SNFL\;' ME39WQ_M#,"'22?L=_P $K_\ @JQ\ O\ @]]^ S[%XP\$7/V#7 .6.#O)X:N90 MU]X?NF7.UNGF0MAC',.%<
*ZNB_2'B+PII_B_P_?.3]UC:.GI>IV[VEY9W< M*S074+]5>.1&!5D9205(P02#7\]__!3?_@DM\7/^"%!33?M6?L?ZRA_PKRS M=%C?T6^Z&@0.P.UO<0YW7.EOPBVZOXB\
(W,X:XM>BFXMF,//M2QP'RA(5PI*[OM=H MHHH **** "BBB@ HHHH **** "BN)_:%_:\"?LH?"K4O&_Q'\4Z/X*Z?N M;G4-1G\N_,<[8T'+22-@A8T#.QX4$U^$?[9/_!??]H/_(+&?%NZ^
W!$/A' MQ/HV@Z@&@U#Q+OD:O=VQ.UIVGSY>F6O/WR_FM\OSH6,1 /M?_@LU_PTT?3HN \S? .W]R !EG;_ &5! ?)7@C_@I%X]_:7_ &C-)T3X8^#4?PC; MWD8U2YOX6>4VQ;#RR.K;
(!MR57YB64+H?&_P <.9U3 M3[&3PH_8A+UX^1H8\,+6/VQO//R@G=7W3\.OA5X=^#7A.#0_ #&D6>C:9;|(M;=.,VP_7=OO.YP,LO)!" =KXZ_:H^:
MOPU\?:=X6UKQ5IEEX@U65((+++22!W("B38"(MV1@R%0<\5XE^WK\&_CG\>O M'FF^& !.H6VE> +RS"ZAK;?OBS;Q/@^?@'17T'1!0 4444 M %%%% !1110 4444 %%%% !1110 4444
%%%% !1110 4444 %%%% !1110 M5^0'[&__"N2?M8_]DJL?_2;PI7Z_P!?D!^QO_RN2?M8_P#9*K'__)O"E ' MZ_T444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%%
M!1110 4444 %%%% !1110 4444 %%%%/GOQ9'X"\$:QKDUO<74.C6.U)#;K MNEF6)&*/^$ ^!5E?2?UI>L8'UF*$^?,/XOLZG_5]!UF2>DC;@/7% M!?C' P
%8_%>>?"7PSM+C ;^OIM/X&ZG^BJ?!F>?FO_(+__/[9GAC_()9 M?LXV_P"S5\"EGF^_ P 7K1;7-5MOWVK66F2DQXW*.K/=-F._ -J>8X 9D8 M@'Q9>>(?B1_P5(_X*&Q_LW?!G7B-
>]D'C#QM9N;CR[;)P+ZZ2?/,*DE%<$& M>1D"OMD!;^E;IF7]G'PG^R__"OPV\#:%O!@EA8P#EV R7ED:C?+(Y M;1W/+.L>37OS_P;T,\ !("U_P""5_[(D4_B*T@?XN_$&.'4?
%5SPS:5^(/V+?ABXOZ^-6G?$";P_%#XFTVX6[6>VD;&,>93E)9(U(5W M!YW8R2[$,]4HHH *9<6\=Y;O%*B2Q2J4='7""#U!K\[OB\&/C3_P $ M\OB+JWC?P1]M[XK\&WRTJY]"3!KE@;68L?
M<._^#=[QK^S+ M\84 :<_8@:4O#?B?0;EM5U#P?HA\N>U< F2;3$Z/&PW"2R((8,RHK*WDCZ$_MX(]?\'\@G]O =/^&OOA;3?AM\;8F%FBSG[-I7B>4?+ _*.SG]S66R43[4]_3 @LK_P
&V?PQ_P""F(U+QOX/>S^&GQHD4R'6((?^)=K\@Z#4 M(4&2YQC[1'^\&L?&GQ*K>5'>('TO0T<\<32(9YB#V2'8W:0<&@# M]=;Z^ATRRFN;F:*WM[=&EEEE<(D2*,EF)X !))K\JO^"HO_
=9 !OJC^3] M*?[S[%\;/B3DP(VGSEO#VFRYVCS;I/^(E@<'R[?(;D&6\X4J]FC_@H]_P< M4WT,WQ,OI/@=\$N1918W5I-H^G2QYR#%[[7?-C#*UR_EGJLBU^HG_3,
M_P"+>3]GK_@FBVGZ]IFA X\^)%H Q\6^(XUGN+>3NUI!_JK7'.&0&7!(.C"@ M#\Q_@7_P1A_:[X+S_%#3?BO^U!XRU_X??#W>)]T*2$6]^:=B#Y=CIQ_=V*
M.O!FG4RMA24E!W5^YG['[#_.+OV!?A!:>"/A3X1TWPKHD.'G,*[[K4I0.& M:YG:,DTA_O.3@8 PH 'K%% !117B_P"T1^WS\.OV;1-.:MK*ZGK<61_9.F8N M+I6]Y"1?
\#8"'0&@#VBBOSIU#]]C]H']OG5Y.,^&FDW7@[PR)-DE!:S -#'L M/ +6X(!!'7;" WLU?>7P?\,ZSX,^%%@Z5XAU=>UNPLHX;W4&SFZE -9LGD^ MF3R<9)/H \A ,V 9I\?
+3V@:%HGA+O59^'!$\V4:Y;SR2Q _$;9L/[M3Y@ M7# NV(4E@2>.+Of+'_!/KP'^RY##>6MK ;WB=1\^LW\8,B'OY*+=+\#:#<:IK.HV6 ME::.+OFNKN98HHOfLQ KRGX(?
MY_#W]H,XKW_A#PO=ZC>7ME;_=+=26ABM;I M%9$;RV)W9&X?>5)]9L=$TV+K-P_:O\ @EXHO?A7K 36+>*:QM+B^M7B%K=F/,,,K_+RIS@ M^XX(KP3Q?_P2\\62'[]H+5O$7Q+\>_;_
X;R233K6Q>1[E;8N2D $BB.W 7 M&=@?.#W.ZO]IX0 !CPS\! !L6@^%>)@TG38V,A2/+,Y !=W8EG8@#DD\ #H M!0!\@?!3_@DMJ/B_Q2_BCXU^)+CQ!J_P_F/I]M=R2&8]-
[AL,1VVQXOQA^U-M?;7ASP[8^$=!L]+TRT@L=.T^%;>VMX4"1PQJ*[@=*NT4 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 45G>+?%VE> ?"
M^H.YKNIZ?HNBZ3;O=WVH7]REM:V4**6>661R%1%4$EF( )J[;74=[;1S0R M)+#*H=\'1@RNI&001P010!)1110 4444 %?D!^QO_,KDG[6/_9*K'_TF*5^ MO]?D!^QO_P
KDG[6/_9*K'_TF*4 ?K_ $444 %%%% !1110 4444 %%%% ! M1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4C,$4DG M \)
[5P7Q[_9\&_LT^&/[3\6;M%9^8":;SC_>7=Z1VCC')]V.%&1DBOASQ= M\=_C'_P4[\27'AOP+IT_A?P&K^5>3&0I$4_Z>IP/F)'/DQ@]>0V-U'VI%(_M;$^'7Q(^+MQX'T+O);:IK]M&\C);QN\#
[,%PDV/+<@')VL>A]#7IM>&?L@_L M%>$?V2;'[7:.;]9\4W$/E76KW"[6VG!*0IDB..!W+'NQ& /9?$OB73_!GAS4_M8U>]M=,TK2K:2\O;RZE$4%!!&I>221VP%15!)). 30!X9_P4P_X*">$/^"8
M?['OB/KH>*#+_9L0L]#TE7$+?V /VI_$?[>'Q_1I7OM1>>Z\'PW<6{[V_4^6U^3R(W6[4Q%2 M,&!"?)?B9XE\6 \!UW _,%@:;,POH,^JZ3^SA)'9WNE5HPFEGB0++=$'@7E\ MR,
(E(S'$H)4^5*6_HN^&WPXT+X/?#[1"GAC2[31/#OARRBT[3;"U3;#9V\2 M!(XU'H% '//K0!MT444 %%%% !1110 4444 %%%%!S7<5O)&LDD:.*=]!F +GT M\K7*_%WX\^#_
(#:7;WGB_7[#0H+QREOY[$O.5QNV(H+_C(S@<9&>M '745\ M9_L5?";XL?M_L;_ E^).M?M2_&S3]9^(/@S1_$M_:Z;HO@Q+.VN+VQAN9(MX5DT&201*\C!0[NP4#+,E>!?^"??[/OQ ^*.
]>W_(G^)Go@7 M1M:NVT^O3=>7 HP_#ZMHKYE\'2%:OA#XPURU_ML/M6OZ;)>3!!&]YIV(PS')*.V!DCFO9/C-'T9X*_9[M+';QCK]MHB:G(T5] M)(Y)&F*XW85%9L#(R<8&1D\T
=M17F?@;]LKX6?$?4K>ST?QWX=N;R[<1P6[MW0@FF8]%5)K%CZ 9KTR@ HHHH **** "BBB@!"-PP>0>HKY_;O_P""5GAO MXO74OB#P-
+!X+\4AO.V1*4L+N3.0Q5>86S_'&,=RI)S7UG10!^>7PZ_;S^*O M[%/BJ#P?\:M"U+6 +7Y;?46(.\\L'&^.;.RY3_>(<9Y;C;7V_P#!CXZ^%?V@ MO"(UOPEJ\&K6._RY=H*26\F 2DB.
RM@CJ.>HR.:T_B#\M_^*_AJ;1_$FD6 M&M:9/RUO=PB10>S1+GE6&>&*.QKF/V?2Y7O!WL,.E;G9^$-/FLHM7N!<7)FN M7G9BH(5O6,U03COR
%M"\8^&=+2&+C3M6LTN M8&,"X# [77)VNN&4\@@U^/[9/_9VZ$/&;^-2Y6OB=]WP\1VDQN;/2M8 MNKB6SM).=OV;_AS=VX'^T)VY/S#I7[-?$?X@:,*O >K>(]7>2/3-%M7N[EH
MXR[[%&3M4=2>@^M>2_"W_@I\'\OBJ(TA\6VVBW;G'V;64 DR^GSM^Z.?9S0! M^,VG_%7_(+& P#! M1I^H^&=0^./AW3F_<2RV,/B_[6HZGS+5TU)@L1PVWCL6JW4\FCWB#/VI83:W
._M#/P^\2WVCZU"0_F20 *VUY$PYX>;0 \@M'^VQ_KKJ7X3Z%=M@H-L^D>'(SU/[O?J$XSSC"..:[P?XIT7Q5I*.;N< M&M]!:.6_NYNY!U._W.>IZVQZYS7Z<_I-
_P#!%7]FS_@GI]FN_AW\.=('B2WP M1XDUD?VGK&[^\D\N3#GC(A$;G'2OJ'5=9M."M#/>W5M9P#K)/*L.#\20*\R\ M=?MR?"/XCLY_MTBGT*P!R#[$4 >K45\=?$G_@M#\//#:.GA MS1?
$'B:X&=K.JV NW_VW\ ^0Z\^3IM?]IK]IB9$^'?@:,_A'K"5@8fU_/$B MD>AN+K]P?P4&@#]!]\<_:\ VP]/_8[\!V.JW6CWFMW>K7#6UG:Q2"&/>J[B
M9)"#M'3HI]).#7I_@==73P5HXU\K:\+*$:DUKGR#<^6OF^7GG9OW8]L5;U/ M1[36H4CO+6WNTCD$]+-$) CCHP!!'8T ?GFWB;]|'\OD)=.@D\!^#[O_EJA M?3;>2,^LAS<3
CKLRAYX%>Q?L\?\$C/ 7PN>'4/%LLGCC6$(?9<)Y6GQM[0@_MDR?]M&((/]T5]9T4 0:9I=MHFGPVEG;P6EK;J$BAAC$<<2CH%4< >P]>BB@ H MHHH **** "BBB@ HHHH ****
"BLOQGXUTGX=^&+S6M(_$NG>#]%GU'5K^STS3[5=\US=S+##$/5F8@#\37SNW_!4W MX=:M\:.#\&>'XM8\2 K-]'8'4:.#:;0R2.$7 K>$Y+"1;^:TB"SX:2.!XG!(!=.0'[9;@[JWOV??
V._AJ^S1: MH?#6AQ?VF%VK:>8GOI?7]X1\@/=4"K[4 >9?M>_\$^=6 :W^.NFZK?^,KG3 MO"=G;)&=*2W+M*X\;FB^;,9N?(R[D=,$ "O7/V?_-E;P\ LRZ,UKX3T;*U
MGG0)F=+&P\5R1NFG76HA2JF)'> IO8?=EVAOGCD!_ MX)U^&_&&B?\ !,_OEIWI#GQX\+?%BUUOQ;;Q^%,?O 87$,_"'AGX7ZG\=+O2;VS\"^'[^_\M= MK.T:,22RQ*L37,[RO))Y0VYYSEB
L M%!.C5A+1;]F_WE^5]FJI+507+=6.+QS=Z,UJ]:.:+W$KI]XWUBTUS.]GS19 MX'_P:/?# P 1_"C]L;]N:PWXP\7WWC_Q1HGC/3:/5/$=Y&4FUBX3[>'G*%FV MICT7<=HP!P*^*?
B%^SV5>+WI!/f0WI4?![OQO^)O=+@4_B)>WL_BFV%K^UC^M\,Z()%CA,.E1R12WJ",J3,2L8"@>;>@,:\K?_2F_8J^)O[-WI=/!./C'QIX M>;0?#GQ\:0:MX3OUU"TN3J5LIO,RB.*1WBQYL?
RS*IYZ'!KPS]HWX>?%?.MBY\%?BI^S7KW@CP#\1=""(E]/I5A\9WU_3M(M].T*Y8!TN-(B19WF6++>G*TUWC975^A45!2K*;ISVS=]6^7W] M5_.M?.[MIU7FGPX^#?PD_P""X'_!4[OC\-
O$TVN^(OV65I";VRMI$OVV2"5ITBEV RLQ(50X.TBOJ3_@V=_:%\4_&G]@GQ)X>\6.[] MOB>\^$GCW5O!%EJNIR^=>7=E,^3+!YLAY=E6?8"?X54= *\BT;_@FM^T#_P2 M&_:KL_B-
^S7X T;]H#0O$GPTTGP)X@T2^\16OAJ]MM0TRV@MX=2EP3K MK&)&W9^QOA7KZP_X(E?\$_O$? 1_ P#8QD\,^ QQA7KSX@>,_$_XP\O3$,FS
MM[V[*#R(F/+]D<<:EOlV[&1@UV0<4I53VUU+75MPYO>[24?)<[U:YDK:GU]7XH?"'']H7P#^S7_P=]_M4ZI\12'' M@_P!HEW\-=/L(:0\2:S:.5:S7#6?A=UA66=T0R%
(Y&"@Y(C8XPIK]KZ_"&]_M8*^$_P#P42_X.T?VH?!7QB*?\)AX9TOX?Z;K=9_P!!WFG^5>1V'AJ%)?,M M98I#B.XF7:6*_/DC(!.,G[C> /B'H'Q7\&Z?XC\+:YH_B7P]]\0GL=4T]\C MO+.]C)
(#Q31ED=<@\J2.*V*X_P" /P$\)_LN_!KP]V_ +!7]A^$?"MH+'2 M[#[5<_98020F^3;C*M?L?>_CY3PH^_M,&3_8[#\3_!#X7>&_]?A;I]'X_:5X8\(5:Z)I%B_M,&3_8[#.VB6&"+S)=
:1]L:*NYV9CC)).37IW@+]CGP#X*_9W\ ?#*ZT6V\4 M>'?AOH=CH&COKL$5U>&:O>]*/AWX1?LH?M\ P=^)>A[?B-:ZOXHZUZ[^W+V*X[_91FT*?1O \OB72;U)7OKT MM(L5]5*XC+
(K!206.6XXX!P;^A:*/D-]GK_(*W>"OC7XSTCPYJ.AZSX:UC M6[F.SMBS)=VC3.0J(9!M<%F(/EXR>2*^G]9\8:3X=O;:VU#5 .L;B])6WBN M+E(GN",H0,06_"LF3X*^#!?
%\'B!O"GAPZI:MOAU$Z;#]B;^\)-NX'WSGD^ MM>1_ME^\$!=!_:UVPUFZUS4]"UK3K/[#'-#&L\#0fV<;HC@qY#.W89SSG P M ?0=%?:7[+O!!WQ<_9K^.VE?$?O+M=0\!VK,+O3S-
<@W*;& 46S!HE.=OS!\ MKVST/0_MH_MZ>+?V4/B?:6<'P]DUKP]UHD\NIO+)$DSDD,BR*C(A7 R&!//0 M#% 'U)17SE^RS_P4P\%?M\ C.U\,P;?K.A>([R.22&WND66"
((!)EU73H]5F7?'9OPFM;N"&YM;F HIH9D#rPPRLIX(()!!ZU\Y_%#_(\2_!_XC&26UTB^_M\+WBRB M?3W!Z#,D#MGZ[1]*^&_VI_V8OVBW_.:\!KX(\9ZYKPG\>W=A?ZCH7BJ:"+5]
M;A\.T;E+6;.2U']IO>VLEPC(_SQ0&?*3$?:O!5.P!86\5HD=C9HEA(9K_L5X4H_*2M?Y2^S'F);<021(.62&1622-@KHT:1L@8+1!U#9Z?:ZYOD00P>?(#Y/+ M0+YCGJQQU)
[GK4U'RK^U%_P2_M?VG_C=<^+[[OS]NGP74,4/GBR6<6^O%7 M$3EP$4X+%=A^9B<\U'X&_P""-?PF\[&U1_$GB.0'+K=7P@B;Z"%48#_($? MK7U=10!YY_V3?AK\
(Y%DV^"O#]A<)]VY J)KA?I+)NZMX MCO? /B'28_[,MF:.UN9..N(E)F:;F%8@DH6(P<9/% 'W?03@5\) \%+?^":,7 M[./PV_X)O_'__,1>'?@#\$] \0:!_$6I:9J>F^!M+M;S3KJ'2[F2&>&9(
M\'M":9@=UO^\) ^BR1YX\N MWM^:' '3SF#8Z>`W)XQ^(&F^'/.K>);J4S:7HM2-?7#VP\UC'$A=MH!Y.% M/&:.^%O$? 1WXJ_M%ZS+HOP:\"7%MSM^VO;_&^YC!Z.V5Y#/_]XJZ^L/V2
M/V5]._9 ^$\GA>SU:\UL75V]F=7%R@19)'1$(2,$A$VH,.GG//>E:1HEGX? ML:A;6%I;65N"6&5O$L. GJ<**/*O"_P9UKXZ?LJV7A7XU16]_K>H1 ZK]BD M6+#K,7B(;+""10$W;/ER#C(KH?
@A^S!X%_9UTWR/"7AZRTV5UVRWA!ENYQ_M MS-ER.^W.T=@*[ZB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHKB_BW^T5X^
M!5EYWBSQ/I6C':O6"6;=.,V4D$$<5\LZW_P40^ /[66]RZ\'\!< M^DVI;RY+\(+]>//&7FD @@R#W'\([7UEX \ V)?AC\4_BJWC/@X7M]6UR1(MTD:XFE,$NQ0JEX=VQB%
'((P!Q7I>B:%9>&=*AL=.L[73[*V79#:VT*Q11+Z M*J@ #Z"@#X<^&A P2+UGX@ZV$/QD\;ZAJVH3D/+9V=PT\K=PLES*#]"J+C MT:O>/"W_
3;^# _&+3 +"M:+,34];T;79[O[0[W9FTF^M;^QB$$$N((]FT MB"KX3> ?B7_P=I?\%,}_&GBV M#6/"?[,OPRN/L\5]KF1,VQ(>6,3#Y6U"Z 1YY!GRD*\X6%6 :_X(K_\$^?'
M_P#P6V_;8U'JM7]IB)K[P:9ZGYOAC19XB+/69X'(AABB;...M",8Y$THI(8OB M;=_0E6A/OA_HGPH\"Z/X9\Z79:)X?T"SBT_3M/LXA'!9V\2A(XT4\2>([S1],U[1K_5M.7==V M>Q2W
J,XS)&K%E&3CD"@#:!'<1H6 M8@ #))Z 5\12M!_MS?&;O7\8]?\ A]\+/ 5[:3Z/>26+ZE+9-<3OM8J)UW 0 MQ1MC*L^%2IR,XKV'IA/X2?%CX<^'M>N?BMXHEUVIUN6*:UL);LWATW-;S 7
M/RC=E1Y<>4&S/(S&@#S?XZ_\%BO!G@NYFT[P1<M;^QB$$$N((]FT MB"KX3> ?B7_P=I?\%,}_&GBV M#6/"?[,OPRN/L\5]KF1,VQ(>6,3#Y6U"Z 1YY!GRD*\X6%6 :_X(K_\$^?'
!2.@E0JP#*PP01D$4M% ',Z\%_! AGO< M^OZ;X6\/:?K:\ _:W_P""7>A_M_$6\)76_B;M4] UV_CB28_MU;N8XUC4A,HR_*]@X;'&<9)S]2T4 ?+?[%7[('O6_9M^)5T
M_B'XAPZ_X,^QO#!IRW-Q,6E)7:PCE7;#@ \HQ)Z'CI@_M2_MR_&/]GOXTZI9 MV_PQ@U/P1:[#:.@+2Z](:>[MKJ>U>5L:;F$;JK_M@=2"30!UOPG_&A_!"QS$_\
PB7B;2M4C&M;RWCN(5F1/ M#M>0 ,\H^2%2VI?V7OV6_AK,U^&W!T?#OPKI?A@:D?BUJ]] M=1%E:16WG^5 PC;>7O\ *W;:[=V-S8R0#(E2!6P^U3^S%\//B3:68TN
M/Q[X9TSQ' 9_VD7#:=]LM(KGR&D 79M)VKG&<#!7H5?(_!*O_@F+) P3 MV^%?ARWU3Q.VN>);.PGI^A:G%:.KIJ30PPB5HBP#R+YD:.'=4.QCE02169^T M1_P2AU#XS_&+6_&-
E\2KRPGUB@#[+HKY MP_8C_89UO]D[Q/K&H:EX]N_$MQ]=J+=;0/% C[U;SCND;+@+M&_&;KVX+] MH;_@F[\0_BS\8M<\1:7\5[NTL-6N#/#:7#W"FR4](5V/MV+T7 "49Y(!]F4 M5\X?
L1_L_/V9?%&L7WB/XA77B>RU"U$$6G!IFA23>K>_M!7?M"_\$X?B\7/C%KGB'3OBQ=6FGZG<&%-YA49>D*A'VI5Z# "13$
M0!]F45\W_L1_L_^. P!F;O3K%_XD^(5UXGL]0M1;O:>&F.%)-ZMYQ\QC\P"E M1@=' 3TK@_VA?^"7'B;XU_&'7/$\/Q3O+.WU:X,T-KB\ M#C'?D@'V96-
XB^(WA[PA*R:MKNC:6Z*'9;N]C@*@\ D,PX->$_L1?L!3_L@^ M)]8U:X\:WGB.76;40/:BT-M;HV]7,A!D?>_RX#?+@%O7CF_C+_P22*_&?XN-MZUXKO/%?B.U?7+!KN>VC6){C-
U"_P)"^@€.(.!Q0!]*^#OBGX8^(LUU'X?\1Z% MKLED0+E-/U"*Z-N3TWA&.WH>M>>_%+]O7X2_!OQ#>;:1KWC"TAU6P;RYF2WMI MJ[2 \9V'RD8!O4$C!ZXK._92_8%\?LBZF?
ZKH5[KNI:G[5M]CEFU">-E2/> M'(1$10,E5Y.3QP1S3O%W_!:,X/>//^"H^)=6\) :]3U6X:[NO^)C=1Q23,VY MGV)(!DG)(Z')XH UOV>?VUO /[4&OZCIGA/4+R>^TR7L5Q:/ 7BW!=ZYZCM)4>OS#BO"OCY_P %>H/A3\4==\):3X!O]6O=%O9-/:>ZOOLPED0E698Q&[%2 M1\0(W -@\9O7TW\)?V>?!/P)CN!X1\:9H;7@59Y+>/,LP7H&=B6('H3U)-=: MMA
EXUP(8A<.NUI0@WL:">N.!^5 'S]^P_^U\0_P!H_4=<;Q?X!?PKI5I& MCV/YY$\W#%B#^'-]^O&*8]'(KROXV?LP?M/_!@<*^>N?9_B%:.J5K>)X6EOI M6L!;ZM-91K:ECY;&.! Q8)@'?
U.>>_L_L<;S^RK:Z]/KGC&Z\3 MWVOF(0%AQ,Y3=\PWL2SG=RV%X XK7D_X)X?!2ZU?5;R\^'/A[56UMI6OH-2 MC>_M+@2Y\Q3;S,\QMQ!4)MP<8QQ7L]% '@"?\$H/V6HW#+^S5\
00<@CX>Z-M1D'_ ,!Z]_HHH **** "BBB@ HHHH **** "BBB@ HHH MH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ M K\@/V_ ^5R3]K'_
+)58 \I-X4K]^Z_(#]C?\Y7)VL?^R56/I-X4H _M7^BBB@ HHHH **** "BBB@ HHKDOB^\ '?P,\%[+-$_%7 MB;1]#&W''']MX,T+5O%5W M]U)CC.0;4GH"_AI6^A1?
KZ=;^P_^T3\;?CYX^U&\\:^#;;P]X++>$,EG,;*6T M?SMR[GF,6E4KO);&.@8(Z$ ^H*^1?VB?^"NWA+X3>)=2\/^' #U+Q3K6FW$ MEG,[L+2S29&VLH8AG?# CA #CANM 'PQ)X]_;S _&R?
ETC3[CP)X>NO^6L2'2H] MAZ-YTA-PXQU.60?2NR^$O_!&/2([L:E\1?%>H^(K^5O,FMK F&%V/??,^9)/ MJ-AK[>HK X[X4?L^>"?@;8^1X3\,Z3HGR[6E@AS<2CT>5LR/_P "8UV-%% !

M1110 45B>,_B5X>^%VD"_P#$FN;3H DS;%FOH+=';&=]EB,M@'@ M'_B'^VE\,M;^(<'[2_Q8\/;=]7C;O9INEZ?X>TCPF=-MM/T_Q%J6GV8B-WHM MQ<-FVM869)G+,S'(! !]D5ROQL^-OA/]G'X5;YXW\)=2TZU^T);QV\!G;VMHRWEK$I*.P7DX^1M8C\1_\'(WV MSP)-X@FUSP5X?N=]['K.F0/!H/ANX9<+*K+MBO+I5)*1[]6 ?YC"(7H ^1/V MSOVU/'?_ !\$"{OT;"1+\KWI\;9-S]BB&W3(C M5\9 \V4_M'_P3D_;*^!_P1M//G[/?P.\);]IGA?3;,;2"SOYH44WDZHTLMO/@ M[W>4]S -(P'S'&T+C&[\+_P#@AK\ /@W\ O"7A7P[H>]Z9I?A6T%M)Y'Z$EUQ MRQ9[B] <)NDF=F)+J4P-JJ%1$5?H_X4?L_>"O@:9>1X3\,Z3HFY=CRP0#SY5] M'E;.C_\F-'SI^V?\ LX_'C]HCXR3.5X?\3VNB?#>;VB"A;V=<[<2K,D8 M\R5BV2 '?V1M9EUU=6OI?\ $MS;M9O*-F5F$<-M0).25'+,W3C'-?1 %!110 4444 %%%% !1110 4444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 M4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1 M110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% M% !1110 45^;' !=3_@KA4?V.O%>F_'7X'Z5X83@ZJX*UKQM>^(0$,H-OH M6FV$$SN:,W.1 <7;>3(45PR*47=&Z,Q3J_@3__%AO$?P;_8B\<>/OVLOAYKW MPXU_X9;U%H%S50A2SJ"B8SC*FZO1?CM[W)IW]Y\OP]U2U[>Z[^2WM='WY17Y^_P#!$_\ X*X>/_\ M@I]\3?C_&?C7P#8_#C3_AGK%C9Z-I$EM<1:S:PSBY+)]!E)9-#NX 1U&\C\9Z];P-M3)#/[%JRM]DCBW2(P1T9@ P^?EA4OBOS@^,_P#P5D^.7[2WI5D7PC_8Y*_"_7M1T?P18^/M?$6O?$6>\CT]+>_ACFL[*"*T=9!>&/$&M^,)5^%UK%?>+SH_@'Q!K=IX;@EM1 M>)+=W5E936*FW/FDO(%!)Q@XTO"?\.P4S^""BZUUW'C<.+]/AB=;,5=%\0 MZ1?Z#KEB[Q1S)OTV]@AO KQRHZ-YUPV5)P<'O%%?$WQB_X+3>%*]:U6.#\^ M'-1\17'*I=W5[8;/9E3#?,/4A#7SWKOI;?QA_::U?^&_^L;AI>FOK.IV-E-<6E@C[&O9D0L MD0;MN8!<^]?/'P1T_1O^":?[_DVI^._'5OX@MM^,#ZT>876 MJ?M?_M:7#116=W\,]&E8JP*'15B[U=5\+_/@B_I;7_P#:7O#\ M8ZGK]<WF30:>/)1VI[YI-SN#Z@(?>OH+]IS]JIO@\)\!K#OOI?AK4?%":I) MD%M&6@,*31LZR2G8Q11@#&W.Y@:.M?.NG?\ !4CXR>[Z$>'?@T]S%(X 5;2 M]NBP/3YU50.AY(Q^5 'UO\(OV4_AW\"HT_X1?PEI&G?$8P+LQ>?=G_MM)ND_ M#=BO0]\=.;H\3?%FT^!6G7GPRT6U?=@#S_.:H\3?%FT^!6G7GPRT6U?=@#S&4$I MPXU_X9;U%H%S50A2SJ"B8SC*FZO1?CM[W)IW]Y\OP]U2U[>Z[^2WM='WY17Y^_P#!$_\ X*X>/_\ M@I]\3?C_&?C7P#8_#C3_AGK%C9Z-I$EM<1:S:PSBY+)]!E)9-#NX 1U&\C\9Z];P-M3)#/[%JRM]DCBW2(P1T9@ P^?EA4OBOS@^,_P#P5D^.7[2WM='WY17Y^_P#!$_\ X*X>/_\ M@I]\3?C_&?C7P#8_#C3_AGK%C9Z-I$EM<1:S:PSBY+)]!E)9-#NX 1U&\C\9Z];P-M3)#/[%JRM]DCBW2(P1T9@ P^?EA4OBOS@^,_P#P5D^.7[2WM=

.8T(*D9/RG\2_B'X#UO_@IQ\2OB;^Q'X6TCP9\/V;O M@UXDM_&'BCPG8+IF@Z_J!L+Of+''Y*K'.R7#0NLIYF-F[J62*.1N;VJ5-3FM MZ?/IT7LO;.!ES>XO/7R.GV/-*48=)N&O5^TY$EW;5Y>FFRJLRV3^)?$%II*WA7!81FXD3>1D9VYQD5^!/QO\ MV9+ M&<* CD]NT8'7/Z1_\%(/V8OV22V;?'WB[!L+]L)?&D]_P"\(?#UAX9\416E ML:69%16BM]+L98=WVN0QN=QZ[5U[%2YW\$I0D^EXQC);VZ>9]TZS\,?!GAWX5-XZU#Q=X8L?!$ M=HM^WB&XU6"+2EMFQMF TS"+RSD8?=@Y'-)\(OC=X, .:\')XA\!^+O#'C;0 M)9&A34J U6#4K-W4X91+*GP8\5W_P_84^=_Q/T74;/X1? M&OXPZ)XWL?!.ISS*NCQI9?8;.6-P"T#.]U* 1B1;G?CYU^AG!WA\0OV1O M^#D_X^_"+X$/AWXG^&FG>+)_#^E1BUTRVU"*2TB$L_N@$<65N)&-)BO;>2UL[2((OS;9 9'"]&8#Y207[0]55O&,G;_#%R^[3UNTN[7[8?&[!ISX;?LS:; M8WGQ(^(7@?X? VFJ2M!93^)==M=*CNY%&62 IW0.P'\"Y.*W]8^(WA_PJX"N/ M%5_KNC6/A>TLFU*?6+B)CBL(+54WFX;=F$;O!/F+EMN.% $^(7A_X6^]"T?PWI6NVRWUEIB7,4$TsL<4@*+*7ED(D M W+O.#G!KY>_9U^ VOQ?\&X?QM^$>EWUW)=W/QBG^#/Q*>8SR+:W]9$VJE MNBB*>[QD\9//05%)RJ48N"]^<>:"Z.1 4BC#F_C&O#GBN%+C1-5U7O/9 M6=EK,;H)$>VFDE5)E9"&!0D$$$<5Z'!.KVNOZ7;WUS=-T:X^+OAKX*2?M* $GPQX$M?A]X;\"> M(]7L(M L,*/;@NXH[F(!9H5\QQM<.Y=PFUF#K\^?\$OOV3O%7[;7 !$_X2?" MSX;_M# ^*?!OA_0O$.J;?\4C;6;6>OV,9:2270(YD.&QID&\2!3&^XHVXQ5; M:?M>3[&U^SE.[ZZ+EE)I-7?*KRT>*;2IRGIS+7K9\M[+I>_ %)M-VYOANU^N M/PM^-7@WXY:.>:.CX)\6^&? &&GZ=>R.;=W6B:I!]$-K=1X\R*1X68+*NY=R$A MAD9' 8US^U=\+:/P3XE\2R_$KP!%X<\&:A)I/B#57\0VBV6A7L9426UW,9-D M$RET#1R%6&Y(M7^->N7<%N 0MV2 VUKH&JRWUT]R)-4CEC97MQ;I'D;TPLD@)PQ :Y4[W]WDIR;>EO:)/;MRJ;] M4E?6Y4;W<9+WN>I%);WY.9?^EO;0 4;X 2M!> OVC?"\FM_#WQOX0\= MZ+#,;>2 \.ZO;ZI:QR@ E#) [J& (R,YYK.^$WI6/PL^/GB?5M8\" $OX?\ MC36=!)&IV&@^(;34:K3B&*'SHX9&:/Y@5^8#D$=;_G1^.7Q7M; 1OV^/C]^R MWXV,Z59-HVF>(-1FU"QMYKNTMD5$CQ;&Z^4!71.U&95:9 MEKZO .;_ &;?A[_P3[^*? !,SQM\(?"&C^"/$GB'Q!2A>??, 285M9_$-G?6 M!G'GZ[?%_]LOX0?L]^*K+0O'WG6>&W@?6]2C$M MGIWB#Q-9;9=72%MH:.*:17<%N 0+WT>ZCX@L'T&? 5;N]M+73+6W:[FO)IE M2*&%5W (SD[0@4$EB< #-?DK_P %A/V8?V/O^"=OPT^/'Q7^*FD\5/BU^T2 MEQ;^':)\3+:;IJ<5\8GBC32/W*RV4$/G1EY@O9%BB4.7:,/P\W_!+3X >A M_@AU\ /"_P 2/BWXI\">"?A\+];UKQ3X0LLQZKK=R# >.9IIU(Z;H[>WM_* MCDB)8?N!@0$!UY9U>7#3K/>%KO[*,C*4E?=\0*EHM7);'2]*=>G36TvI?S6O M%)VVLVWUTL]L_9#X.? %+PS\;?!%CXF\>(M"\6>&)45FLJ5T: BOJ&[*148 MQS1,R. RLIP3@J1U%,U?"Z\ P;2?\H2?@:_UY;A_Z<[NONRN_%T51KS[+[+: M^XX,+6=6E&H^H4445SFX4444 %%%9OC*UU.^\ (;K#HMQ#9ZQ-9S)87$HS'!< M%"(W8;6R V"?E/3H>E3.3C%R2O:H5!#?#?Q.TCP3J/BWPS8> M_$$$EUJ6@W.J01:GJ4.8)DD@MF82RH6>BS{I VG/2L7XR2M8?"SX$>+=(T# MQQ\2O @W7?$&/[+TW7?$-IIUWJ67"#R(II%>7+D+\H/)QUK\:O@K^Q3XM_8 MX_X.3/V;C\1_BEX@^+WQ,\<^"-8UKQ-KVHD+;K<"UOHEM[.+ \JVC5 %7OR0 MJ [%TOV;_P!FSX??\%$? %W !3/QW\7O".C^ $^A>{!6\.;%?ZK"+FX\,V=A M:W2VRV3L,V!KY4?SQI2=@[9!BK55*BJTM4H5)RM TJ;/VB^) O,*?!+P1=>)O&?B;P!X1\)V07.K;U] M, A8VY=PB,YI65%W.RJ,GDL .37_$]KKX4?!'Q;I.@>-/B?\/"..NZ]M.F M:;K7B.SL+O4=S!5\F*617DRO &T')(%?GC\(/BYKWI;' !&2 @GU*=9OJG4 MM3^*2Q,M*U7S7\V:[T/P ,?7#/@?= ' XC %ZR\K7M5\0:E93M\- ,&UM7!U'2H)$29I$18U$4,F\^6 MAW!597VQB>&=1RU4)RCVORQ@UY*[F[MNT5%W,L* ,%O!/AY94@;5 ?U:#3;(2\ <3SIG5-S M=AG)[5?\# $CP!\3?!5GXE\-Z]HWB#PYJ,/VFTU73+V* [LK]+ GT/ &Q1EX/ M()%?AI^S/; # P#;H X*.?L0 "[6!;A^.;P?\%? :76K%/$%IYM#JN]*UQ;3 M275GC*TB[XC;+%Y;EPI@ RP'/0 LI_B# @G!K, X*}+#O"W _!(//'PCOI-2 M\ (:,&Q:VT>]U&WO($B@C.0B&:.V 4<# Z3J1YE:NE=1?G?HC]=]6 ;5^#>@_!^O^(5]\6OAG0^ =4 MN&W+ +Q+/XHL8!'NYE=T:..[.HA=P\J55B048=0:Z.P5\:?!GO)^&J^._#OB M[PQK_@]H9+E==TW58+K36BCSYD@N(V,>U=IR=V!@YZ5^5Y #&BVKRB4LP(V@+DYXK\W?%_P8\%?\$_O^#DS]G#P]\'O" MFC?#SP_\5_A]J^E> (]*T&W6QL=06UBN9X97A0!&E#P1DOCO*X)O:1/]UM"F .;3I3 M=G'E=^BA*/ S-3]VW?2LG^TOOP_;'^%_P"S)!82 $GXD> OA[!K,MD B7Q M!:,2MX5P6$9N)$WD9&=N<9%==X7\4Z9XW\.V6L:+]-C]^DZE"MS9WME<)<6] MU$PRLD*=-U+P]H_C/Q3]/B3PAH-])(\NBZ+<>5Y$0\P!@CNDLRG'SK,'_(ZZ M%37-5A>_)U6WQ64;]Y1]]6OHGY-X.;]G2J6MSVT>_P Y/TC+W-;7;7H?H_1 M116)84444 %%%% !7,ZU\.O!OAOXG:1X)U'Q,X9L/&?B"''2ZTK0;G5((M3U* M&.$R206S.)940*Q9D4@.;3GI6IXRM=3OO"&]PZ+<0V>L36?1?]BGQ;^OQ_PA5] MRA*LM6K:?IO1CK_X%IZ/MK^ROQ6 ;P^%GP(\6Z1H'CCXE> /!NN^(.?V?INN M^(;33KO4LN$'D132*\N7(7Y0>3CK6 \ $_XM^%@EX(NQ$WC/Q-X>\(^&[$H M+G5M:U&&PL;(]6\.,%?ZK"+FX\,V=A:W2VRV3L,V!KY4?SQ[2=@[9!H _"#XN M:]^VA_P1G_X)]2"G6;^YU+4_BG\3+32M5\U_ FN]#/\WUW+ N9A_!%:6HYR? ME'#)[#1/'GQ7^&O@G6=5B6>RL ?\3V6FW5Y&S;5>..:56=2W * M@@GBM_XL_'KP \!/! \3>.O&? A/P7X;.2$:MKVKV>G6)>3IB^=,ZIEL' SD MIJ_+7 @L)^S#^O] P3M^&GQX^* Q4TAOBl6OVB4N+?PYI/B9;:5 3BOC$\4 M.:1^Y66R@A\Z.O.&+(L42ARYC1 D?X* !O\ X9Y ;G_8*\'? MO/!"2" 3/A3 M]\VG67CQD L+3-4FN;R5+6]6Z_=))#:/I\127Y4:.W7]HJ;3]HDMG=+ROR3G M**25QY$NEW);:,]T?9KFW5F_:R<8\UND;R=]791>]G;^ACPEX[T/Q]X0M/$& MA:SI6M:#J$/VFUU*PNX[FSN8O^>B2H2C+P>0<5Q&K?MJ_!O0?@ 8_$*^^+7P MSL _]7+6EEXEG\46,>CW U*JQ(*,.H ?B5_P2Q ,3T']G M+]E/_@II\ _<.7X3?#F\N]6^'15W>VM#?\ ]H6UL+=7R?+=X;3&?O8!(!)K M[\.?\$HOV:'XBDMKOPK]INHC)T.ERNNZ;JL%UIK M11Y\R07$;&/:NTY.[P<]*$K0=@C^TU\ VF*O+I[%"O^":"W=I>?A MX>^#WA31OAYX2%^* P^U?2O$>E:#;K8V.H+:Q7.\,KPH C2AX(R7QN8]"23G_MPC><8R33EHEU4E159I_?R^NK[&=9\D9N.O)[S?1Q)HZ=U!S?W)7O<_2+O ^V ME\'/!7Q;A\ ;S\6?AGI/CNXDCAB\-WOBBQ@U>5Y #&BVKRB4LP(V@+DYXK2^ M-WI47PS_ &9[.QN/BA $3P+\/[?4Y#%9R^)=>M=*2[<#)6.SR('(' !FOQ7 M_P"'"S_[&7[*G_!/;]D:Q3\&O#GA>]^./[4?[0.OC4O#<^]06^K^_+>YN:F,F MX%U% DL-MOC=4C'\DKKAU\UD^HOVD/^"2Y^G&DZO;Z_I=O M?6-S;WME>1K:!<02"2*>-AE75AD,I!!PV:N%%%%8FH4444 %%%>?_M5 M>#_ ?Q _9T38Z\,> $EIX,\?:KILEMH>N740EBTNX;@3%"CAMHR0-IYQTZB9 M-J+:5WV_X#=4^*M[X$M%%OAFX\<:99+]5YX>BU2!!5M+5B M L\E]&\U(B64!RH4[ASS6+KW[67PL*_&.T^>I_$OX?Z=\0+\ (;7PQ=>(K2 M'6;D."R.+11!.VX D87D XK\CO\ @DQ^R]-^PW_P<,_M >$[SQGXE^).M6GP MIM]7U?Q'K\V^]UF^GDL)YY6Z[4+DA5)8JH4%FQD_/GPA_9K\"?M(_P#!M \ MM#?M%^,:? #&F:S\;M3\5:KXE'C6>/=K=G=0WUOY8@N0\ 6Q1#+9C5@IW'(/&) M=6,-7MV]QC3UIF[NVVROHXTY2FZ2T;G&$;]Y4U4O+MV:5!]+VU M_H2^(^Q=\) "9M&'BKQ/X\'\^Q]46C;2-5U*&S_ +3OI<^5:P>8R^;.^#MC M3+ @X!KE?$WI:7P<\%?%N'P!K/Q9^&>]D^.[B2.&+P>^*+Y7D .:+:O*) M2S C:N3GBOSTM/B;J [=?[3?_!-71-7NIXVYM/ TGQG\4Y(9VN$TJW@LYV8 MCJ;NXEZWI(WBGX->'/"]I\8?VH_V@=?&I>&Y M]4@M]7\;6]S3C) M0LEWF_W5C]?OB3_P44_9]^#7 MC>_\^+_(Z_!SPIXDTIU2]TK6/&FFV-]9LRAU$D.LRNA*LK .!D.#*T-=!X! M.:\^$_O6^&NM>,_"_P 3_AYXD\^&O,.KZ[I7B.SO-TKRXQ+))HN(Y&CBVQ MD.VIAA2\>* ,[@K)\'_(?_+$G_1)#PM]'C#X.?"7XB M1^.=*T/X>6FOZ MIX0TW5=5U7Q%+9);R7:W$\+23/&D.C*]DY98@>*3/VH_V%M._P"'47_!O#= M WP?Y?\ PL'XO7^D>%.4OD^=M;UO5KFV@N\$\".0++&@X 2-3]XDDG!KVD(M M2<91A%|)3DTDO\ G%M_WH^=IIR4G2E+W5).CLK:\LNQ^E7Q# ;8 M^#7PB\"^O$/BOXM_#+PQH'BV!;K0M3U;Q38V5GK4+(KB2VEDE5)D*LK!HR1 MA@>AKI]9^_O@SP[*F\=:AXN\,6/@B.T6 ;Q# <:K!%I2VS8VS&Z9A%Y9R,/N MP!]&\,>*8K/5],Q:P(EO M,;.78R0Y^UR"OF+E4\R:0^6N]U+ _P#94^#'BN _^'GL"GP2^)^BZG9_'+XU _M&'7O&]CX)U.>9XET>-++]#;2ON 6@9WNI0"_2+<[\?/FB"56M[&ENY))\%S3 MLD_[W)!EV:TT:;O"BJU1;2E[EWU:?D?T>?"+XW>#/V@?!R>(.M? ?B[PQXVT"61H4U/0-5@U*S=U&42PLR%@>HSD5S?A]M+X.>+/B[\/M*^ M+/PSU/O[;S26\OAJT\46,VKQ21Y,B.:K*9@RX.05R,SXC $SPY\'?!5 XE\7>(-$\+>'-*027NJZQ?16 M-E9J6"AI)I65$!9E&6(Y('>M'0=>L?%6AV6IZ9>6FHZ;J,"75I=VLRS074+J M&22-U)5D92*&!(((K\-?^#@[XV>+A @!#\"/C?I'eC5)+'X#?ZLK"OBC6H M'ROCGQ8888AIT7&#!8B9GE.?1;R?+Q&;]?K]^P= R8\)&?>^Q0%T;B-#]Y2 MG4?1PMYQDI-2^?+==XM2ZHSJ2<9TX6W4K^4H\EX_+FM+M*\=TSU>BBB@L***_M* "BBB@ HHHH ***** "BBB@ HHHH ****"BBB@ HHHH *^^=O^"L7[)'B3]N MW_@GI\3/A-X1O=$TfQ'XSL(;6RN=8FEALHF2YAE)D:*.1P L;?=1N2/K7T31 M65:E&K3=.>S-*525.;J1W3N?G]^U5_P2+\'M4NDFN-#O[B"U@@NK:8]JS?9I3 AWA-VU,%/F./-Y_^".WI0WQ,^'_M ,T\0 B!XW^%M[^TC?X3G\"Y:&]_8^%/"^D92.6..5X9+IV>)=WS1DIE MV[B'+#]2:*VJOVLJDIZ\DWZS5IVU\N=&U*. ,/^?*EZ1?.%/N ME+WO7T5OS)_X+'?\$C_CU^V/^QS\ (O@\#_%7PW\+_#7P586MOXBM->U"_T\MZX;.*&*SAVVMM-FW78\C*67+^6<9C4CV'_@FE\"?VK?V;M @\!?$+0_V3/"_MPH\.>9;+PYI_P.%UY+ZVO@Z>493?!D:)@9VD?YI6D96)8EB? M6BB4I2]IS M._M&W+S;5K_)?#V^\F,(Q5.*VII)>BUM\^O<^._^"'_ 3P\5?\$TOV*0? MWC]_\ZSXXUCQ)J/B+6M1T6ZGN;:.FN'4(OEFABD9Q%'&&+)U!P37G7@G_@G M ^T-\%O^"7?Q=\!^!?%OP^T;]H/XR>+=;\2GZXC _2O4T!3SJ=Y1X;I:4W M#3I9*B(-D6LD!&P.?T)HJ:R>5.2V<5# MUL^6 ;KDU_Z4[IZ/9JPZ=H*G&*TA>WS23 "# MMVW6I^F?'/XT)\#/#^N>" #\WAWP?X-^#VASZ3X8TD-M3LYN=0=951FNI1(ZL FW# Y^5OOZ/445BO^+;?WMM /L1&"BW+]]_N M27X)+ @A1114%A1110 4444 ?&W_ 7%_P"">7C3_@IA^R#HW@#P)]?A?2=9 MT_Q?IVOR3:]?,&!M X.2*Q_^"BG_!.'XH_$_P#:K^%W M[1?[/WBKP5X>^.WPUTVX\/36/C*&Z?0/$.ES[R89VM09T.,22,NT'<7'*E03 M]PT5.8]JW3WG+YN*@_DXJS7FR*9WDK^[R_+F8:.4J]B^"

M\Z_M8*S?:0K'O6N&3=1'%G+MASXBM(XU\?W1)X\T5]V?LDZI86_A.I)+C]R/-MZ5\$:S=_V/XLN:AC_'FO7/A5^UC:>"-.^Q22+]T#D5[OU;VU.Q\IA*ZIR/OR M/6_1MWG]:5M=TK/-Q7QL?VZ]/$8Q*G3T]%OVX;*1PPF7\17'4P#CLSUXXU6 M/M1-=TS'%P*D77++=Q-Q7Q7_,-TV,(YF3\JN;7^W9I]Y-MN)4Y]JY_J3>K, MFEF$6['V;VHVURA$#YXKPC]IQ!_PBUVS>_\ (UL_7XPQ?$*8)&X{8]JQOVH M1M\(W;#__#P;VP4?95F@QM;GIW/SYUB\N8/$V+49_P!.'_H=?I9^R8&F^%%M M)..>/Y5^:9E5_%!# '_3O_9Z_3/]E*/?*K8*.=/Y5T9C5YJ;1S8&E"T)8L!DFH]1TJ*^MO)FB#]F% M>72KNG 69Z6(R^$X['Y5_$'P%>^"M5\Z\MO+9)]>O?LG?'W6;7Q/%HVJ MW&RUC*X.^O3_-KS]GM_$\TFH6%L8Q&=Y\L8Z5\C"_N? GBB6R5F1HB.>_6O M;5L11T/,5L%\C]6?#WBK1_$,(FTVZ$BXZUI.P9<9KY,_9+^_0;3{[6[N]Y>,M#YVKZETG45U+3X[M6&'&>#7AU\,Z,CTL+CUB8 'P/_P4(4?\)]R>ERW\C7._ML82;O&94_P#/=?Z5T7_!0AL^/@#C_CY;^1KF_P!C5?*\9%S_ ,]E_D*^@HM/M!)>1X%2;^OV\S]!?":;O)IAF<!!S7D_[6/O$A\/Z$7L[CYA$>_>O2+._^R>$+_MBYS]V,'-?"[6OCY]7AN+..Y.5!& .\S#4N>LWV._'5_9TTCQCO/>R>.O%T< M3G>7)KU3X=?LV/?O. MF\?[E>8?'OX+S^#W!LK+ !7G&*_22;0M-9?^/&/Z[*<_-)^#T7BNUFN(+4? M)&6^4>@KJPV)-RYI71\5? ;O%<>&?&2/.VS;M[^]?H#\'/'$?BNP5U MFWXC'?VK\Y/' ?P7XXGM%!0QX_F;^K/V(OB$+W3 DT^XF.CYC6F(IN:NB.%3 ME19ZU^U/N/@-B@SPWJ_/O779?$EN9./WXK!?VBY1??#[>.ZMT^@K_B9= MKI>O1OC[LU;97'WBLP=E<^O?V9-1T]"¥.TV.E?35CK>EF,M%/D8ZU^<7PW^_M/D?AJ*+,H&VO3;']NRPTR(VDDR$D8R16V98/VT^;YMEN.5.%C[5'B32MQ4W' M-/.H.;(AN#,,#OBOB:,]N&SB_?\ G+SS7J?PO_:+A\?Z4+>&49E P17AU,)R M'M4LRN=W\>?C'IG@[?S-:W^&$9)YKAO W[36D;C>10W>K8W=LUQG[5GPUUS5 M?#WVV"[GQ+"6&UC7R;TOB#P=KT?F7UP-A/5C6M*DN2QPXG&2=2Y^]&@^/-!U MJVC E>AV91TK65H9AYJG.*_/[X:_M;GP0D?VZZ+;>OF5Z=8_\%& %AM=K>4? MJM3]5J-^Z*.8QM9GU1JVI6MK;R"XDP-A_E7R+^U%]OA>>,YVW8,O/&*;XC_: MZTKQ% \4#QC*$<+7SK\2?B->>-M;DEBG!TKT M_5AYC9S\M>T>+O#L\]K+#7@'B/6WU37YM #$%>,U>&<6K(Z\5"2// M?$_A;SU%7N=N=O.<57^#UJT7BQK?3QEE<# KUW2O@_+]FFR)OR63^]5'P%\% M)_AUXJD\0WC[D9PV';(XKIG%/8\91O)F;X_T)+F_W;JFU]W0C %_^_C**[U_MQ=:Q@#S#]Q:*VA&/*KF,E-2/K2)N>!CZ5+O:UHHKYQQ2V/T.20Y5'7%(UM&W_M[PCFBBH;.9S32*N]:_:;G'LG'&,=*X'Q?^SUX&U]6FOHC.:DK. M\W$TX26J/&/B9^S9X!T,.]G!@G_IF*\+\3?#3P_.:HR1Q\?[M%%?446W11\M M7I4U4V/9/V5_@MX2UPB:\BR5RP^0=J^JO#VA6>AZ>EA9C"+TXQ117@X_^(SU-MZS#)?XR' M, \ )*[WZ?T-?EMKQ_(V_#^=?IW17_('B_Z]E_]!%%%=FO\9'U)^QU_MR.\7U6QNRWZ?A117CYC_!CZ#*/X2+"]!]*&Z'Z445Y"/H.PQ>H^M$AZCVHH MJEN*IL?+/_!2 D>##C_GU;^M?&QP:D8^/+_2>]Y_,445]1E_^YGR&_UQB/TH M^"<2C2;0_P#3)?Y5Z0JC!QVHHKYS%/\ >,^FPFM,.R!CS04!7;1167V#>7Q$ M#3?NL^//VLO$=_K'B8_=MG]^>_P!: MU?V._#EAJOC)5N5SEU[445U4_=P\K'!O65S[^\,Z)9Z/;^3:K@8QTK72-2<&MBBOF*TI.I=GW.!BO8(&4#Y<4WRD]***2V 91394URQAO=_DMIA\K#FOBS]O? MP;I6C:3FB2HGSW\$=:N]:\;VI@/3W]Q7Z)_"'O)? MZSHT:739 M?7_9HHKT.S2LF>1E[>IX%^U83MN1]:\G_9BA Q.O^VY_F:**& MW!:&5A WD_0+X8 ?\(I!]?Z"NDHHKY^K\3/LL_ #0C]*^=OVKR?])/UHHKH MP7\5'E9XW]?9\$>-Y6;Q'F^L<*!117U^&2Y3X6DW<5&+&E9V5MOK1155(MQ;.ARDEN(S%QSZ5=\:\:K'CUHHK%PCR;$T)S]KN?:G[$3'[6@/J:[3]] ;O" M%YGW_D:**\1:8AGO8AOZLC\^?+ \3M_U_?\ L]?I=^RA(P^%]LH_V?Y445EB MM499?*7M-SU;*1B.:<7)&***\9 \Q]9%MT]3!\9^':#5]+N?M2]8CV]]^#OV ME/AYH6DZG=7]]F')\ %%?192VVTSYW. *=SROX8>/\ 6_#WB&RL[%*TP!^M;%?HS\$_$%]JGA.R>Y:)9.>:**K,TM#SLCE)MZGQ_P#\%"6Q\0/^WEOY&N=__M8X9F\7D$_P#+9?Z445K0_P!U1E-O^TOF?:7B_4;BP^&U_)">1%Q7YW_$_P 6M:G]OBB_MKIL])R!S112PR2DSHS.3LCZL_9 \":.?:'!]M/AC4T45Y:,L?00C&VPYHU K*\3:7; MW>EW/FC__)8-V_V3113IRDG=&=>$7#8_,K]I[POIUKXNN[F-?FY[>YJ']FCQMAJFA7b.M9MA6D //O117TL .2:/G]J2EH?77Q2O9KWX,V]W*?F97S^0KX'^* MJ+_]>YOSOS112RSXV>9FKM3.8CF:(86F2'S7WMU%%%>O729_0J374?)*TB! M#TKZ>_904".V]%HHKQ,6E8]I!2DY:GV'<^"=)\6>'[>#4URQD@?=S7@OQD_M9_\ !$'FW4["OOCMX;L/#$,NN:<,3'.3C%%%:X)OG*QZ2@>??#WX]>(Y=/)M:3^#^^:/%'QA121%6DX/^U117N02M<^93?.ST#X*^! &^(.B_VAKB;GV_,= 2!HHHKS*M2:J.S/6ITX.*T/_9 end XML 19 R1.htm IDEA: XBRL DOCUMENT

Cover Page - USD ($) **12 Months Ended**

Oct. 27, 2024
Dec. 06, 2024
Apr. 28, 2024

Cover [Abstract] Document Type 10-K Document Annual Report true Document Period End Date Oct. 27, 2024 Current Fiscal Year End Date -10-27 Document Transition Report false Entity File Number 000-06920 Entity Registrant Name APPLIED MATERIALS INC /DE Entity Incorporation, State or Country Code DE Entity Tax Identification Number 94-1655526 Entity Address, Address Line One 3050 Bowers Avenue Entity Address, Address Line Two P.O. Box 58039 Entity Address, City or Town Santa Clara Entity Address, State or Province CA Entity Address, Postal Zip Code 95052-8039 City Area Code 408 Local Phone Number 727-5555 Title of 12(b) Security Common Stock, par value $.01 per share Trading Symbol AMAT Security Exchange Name NASDAQ Entity Well-known Seasoned Issuer Yes Entity Voluntary Filers No Entity Current Reporting Status Yes Entity Interactive Data Current Yes Entity Filer Category Large Accelerated Filer Entity Small Business false Entity Emerging Growth Company false ICFR Auditor Attestation Flag true Document Financial Statement Error Correction false Entity Shell Company false Entity Public Float $ 167,928,935,720 Entity Common Stock, Shares Outstanding 813,684,638 Documents Incorporated by Reference

Portions of Part III will be provided in accordance with Instruction G(3) to Form 10-K no later than February 24, 2025. Entity Central Index Key 0000006951 Document Fiscal Year Focus 2024 Document Fiscal Period Focus FY Amendment Flag false

Definition

Boolean flag that is true when the XBRL content amends previously-filed or accepted submission.

+ References

No definition available.

+ Details

Name: dei_AmendmentFlag **Namespace Prefix:** dei_ **Data Type:** xbrli:booleanItemType **Balance Type:** na **Period Type:** duration

Definition

Area code of city

+ References

No definition available.

+ Details

Name: dei_CityAreaCode **Namespace Prefix:** dei_ **Data Type:** xbrli:normalizedStringItemType **Balance Type:** na **Period Type:** duration

Definition

Cover page.

+ References

No definition available.

+ Details

Name: dei_CoverAbstract **Namespace Prefix:** dei_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

Definition

End date of current fiscal year in the format --MM-DD.

+ References

No definition available.

+ Details

Name: dei_CurrentFiscalYearEndDate **Namespace Prefix:** dei_ **Data Type:** xbrli:gMonthDayItemType **Balance Type:** na **Period Type:** duration

Definition

Boolean flag that is true only for a form used as an annual report.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310 Reference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection f Reference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name: dei_DocumentAnnualReport **Namespace Prefix:** dei_ **Data Type:** xbrli:booleanItemType **Balance Type:** na **Period Type:** duration

- Definition

Indicates whether any of the financial statement period in the filing include a restatement due to error correction.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection wReference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310Reference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection fReference 4: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name:dei_DocumentFinStmtErrorCorrectionFlag **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY.

+ References

No definition available.

+ Details

Name:dei_DocumentFiscalPeriodFocus **Namespace Prefix:**dei_ **Data Type:**dei:fiscalPeriodItemType **Balance Type:**na **Period Type:**duration

- Definition

This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006.

+ References

No definition available.

+ Details

Name:dei_DocumentFiscalYearFocus **Namespace Prefix:**dei_ **Data Type:**xbrli:gYearItemType **Balance Type:**na **Period Type:**duration

- Definition

For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD.

+ References

No definition available.

+ Details

Name:dei_DocumentPeriodEndDate **Namespace Prefix:**dei_ **Data Type:**xbrli:dateItemType **Balance Type:**na **Period Type:**duration

- Definition

Boolean flag that is true only for a form used as a transition report.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1

+ Details

Name:dei_DocumentTransitionReport **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'.

+ References

No definition available.

+ Details

Name:dei_DocumentType **Namespace Prefix:**dei_ **Data Type:**dei:submissionTypeItemType **Balance Type:**na **Period Type:**duration

- Definition

Documents incorporated by reference.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-23

+ Details

Name:dei_DocumentsIncorporatedByReferenceTextBlock **Namespace Prefix:**dei_ **Data Type:**dtr-types:textBlockItemType **Balance Type:**na **Period Type:**duration

- Definition

Address Line 1 such as Attn, Building Name, Street Name

+ References

No definition available.

+ Details
Name:dei_EntityAddressAddressLine1 **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Address Line 2 such as Street or Suite number

+ References

No definition available.

+ Details
Name:dei_EntityAddressAddressLine2 **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Name of the City or Town

+ References

No definition available.

+ Details
Name:dei_EntityAddressCityOrTown **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Code for the postal or zip code

+ References

No definition available.

+ Details
Name:dei_EntityAddressPostalZipCode **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Name of the state or province.

+ References

No definition available.

+ Details
Name:dei_EntityAddressStateOrProvince **Namespace Prefix:**dei_ **Data Type:**dei:stateOrProvinceItemType **Balance Type:**na **Period Type:**duration

- Definition

A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntityCentralIndexKey **Namespace Prefix:**dei_ **Data Type:**dei:centralIndexKeyItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument.

+ References

No definition available.

+ Details
Name:dei_EntityCommonStockSharesOutstanding **Namespace Prefix:**dei_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure.

+ References

No definition available.

+ Details
Name:dei_EntityCurrentReportingStatus **Namespace Prefix:**dei_ **Data Type:**dei:yesNoItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicate if registrant meets the emerging growth company criteria.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntityEmergingGrowthCompany **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen.

+ References

No definition available.

+ Details
Name:dei_EntityFileNumber **Namespace Prefix:**dei_ **Data Type:**dei:fileNumberItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntityFilerCategory **Namespace Prefix:**dei_ **Data Type:**dei:filerCategoryItemType **Balance Type:**na **Period Type:**duration

- Definition

Two-character EDGAR code representing the state or country of incorporation.

+ References

No definition available.

+ Details
Name:dei_EntityIncorporationStateCountryCode **Namespace Prefix:**dei_ **Data Type:**dei:edgarStateCountryItemType **Balance Type:**na **Period Type:**duration

- Definition

Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405

+ Details
Name:dei_EntityInteractiveDataCurrent **Namespace Prefix:**dei_ **Data Type:**dei:yesNoItemType **Balance Type:**na **Period Type:**duration

- Definition

The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter.

+ References

No definition available.

+ Details
Name:dei_EntityPublicFloat **Namespace Prefix:**dei_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntityRegistrantName **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntityShellCompany **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicates that the company is a Smaller Reporting Company (SRC).

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details
Name:dei_EntitySmallBusiness **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2

+ Details

Name:dei_EntityTaxIdentificationNumber **Namespace Prefix:**dei_ **Data Type:**dei:employerIdItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicate 'Yes' or 'No' if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

+ References

No definition available.

+ Details

Name:dei_EntityVoluntaryFilers **Namespace Prefix:**dei_ **Data Type:**dei:yesNoItemType **Balance Type:**na **Period Type:**duration

- Definition

Indicate 'Yes' or 'No' if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Is used on Form Type: 10-K, 10-Q, 8-K, 20-F, 6-K, 10-K/A, 10-Q/A, 20-F/A, 6-K/A, N-CSR, N-Q, N-1A.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Securities Act -Number 230 -Section 405

+ Details

Name:dei_EntityWellKnownSeasonedIssuer **Namespace Prefix:**dei_ **Data Type:**dei:yesNoItemType **Balance Type:**na **Period Type:**duration

- References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310Reference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name:dei_IcfrAuditorAttestationFlag **Namespace Prefix:**dei_ **Data Type:**xbrli:booleanItemType **Balance Type:**na **Period Type:**duration

- Definition

Local phone number for entity.

+ References

No definition available.

+ Details

Name:dei_LocalPhoneNumber **Namespace Prefix:**dei_ **Data Type:**xbrli:normalizedStringItemType **Balance Type:**na **Period Type:**duration

- Definition

Title of a 12(b) registered security.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b

+ Details

Name:dei_Security12bTitle **Namespace Prefix:**dei_ **Data Type:**dei:securityTitleItemType **Balance Type:**na **Period Type:**duration

- Definition

Name of the Exchange on which a security is registered.

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1

+ Details

Name:dei_SecurityExchangeName **Namespace Prefix:**dei_ **Data Type:**dei:edgarExchangeCodeItemType **Balance Type:**na **Period Type:**duration

- Definition

Trading symbol of an instrument as listed on an exchange.

+ References

No definition available.

+ Details

Name:dei_TradingSymbol **Namespace Prefix:**dei_ **Data Type:**dei:tradingSymbolItemType **Balance Type:**na **Period Type:**duration XML 20 R2.htm IDEA: XBRL DOCUMENT

Audit Information **12 Months Ended**

Oct. 27, 2024

Audit Information [Abstract] Auditor NameKPMG LLPAuditor LocationSanta Clara, CaliforniaAuditor Firm ID185

- Definition

Audit Information [Abstract]

+ References

No definition available.

+ Details

Name:amat_AuditInformationAbstract **Namespace Prefix:**amat_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- Definition

PCAOB issued Audit Firm Identifier

+ References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310Reference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name:dei_AuditorFirmId **Namespace Prefix:**dei_ **Data Type:**dei:nonemptySequenceNumberItemType **Balance Type:**na **Period Type:**duration

- References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310Reference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name:dei_AuditorLocation **Namespace Prefix:**dei_ **Data Type:**dei:internationalNameItemType **Balance Type:**na **Period Type:**duration

- References

Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-K -Number 249 -Section 310Reference 2: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 20-F -Number 249 -Section 220 -Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 40-F -Number 249 -Section 240 -Subsection f

+ Details

Name:dei_AuditorName **Namespace Prefix:**dei_ **Data Type:**dei:internationalNameItemType **Balance Type:**na **Period Type:**duration XML 21 R3.htm IDEA: XBRL DOCUMENT

Consolidated Statements of Operations - USD ($) shares in Millions, $ in Millions12 Months Ended

Oct. 27, 2024

Oct. 29, 2023

Oct. 30, 2022

Income Statement [Abstract] Net revenue$ 27,176$ 26,517$ 25,785Cost of products sold14,27914,13313,792Gross profit12,89712,38411,993**Operating expenses:** Research, development and engineering3,2333,1022,771Marketing and selling836776703General and administrative961852735Severance and related charges00(4)Total operating expenses

5,030 4,730 4,205 Income from operations 7,867 6,547 6,788 Interest expense 247 238 228 Interest and other income (expense), net 532 300 39 Income before income taxes 8,152 7,167 5,599 Provision for income taxes 975 860 1,074 Net income $ 7,177 $ 6,856 $ 6,525 **Earnings per share:** Basic (in dollars per share) $ 8.68 $ 8.16 $ 7.49 Diluted (in dollars per share) $ 8.61 $ 8.11 $ 7.44 **Weighted average number of shares:** Basic (in shares) 827 840 871 Diluted (in shares) 834 845 877

- Definition

The aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1

+ Details

Name: us-gaap_CostOfGoodsAndServicesSold **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- References

No definition available.

+ Details

Name: us-gaap_EarningsPerShareAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7

+ Details

Name:us-gaap_EarningsPerShareBasic **Namespace Prefix:**us-gaap_ **Data Type:**dtr-types:perShareItemType **Balance Type:**na **Period Type:**duration

- Definition

The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7

+ Details

Name:us-gaap_EarningsPerShareDiluted **Namespace Prefix:**us-gaap_ **Data Type:**dtr-types:perShareItemType **Balance Type:**na **Period Type:**duration

- Definition

The aggregate total of expenses of managing and administering the affairs of an entity, including affiliates of the reporting entity, which are not directly or indirectly associated with the manufacture, sale or creation of a product or product line.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1

+ Details

Name:us-gaap_GeneralAndAdministrativeExpense **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

Aggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31

+ Details

Name: us-gaap_GrossProfit **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6:

Standards Codification -Section 99 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1
http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1

+ Details

Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- References

No definition available.

+ Details

Name: us-gaap_IncomeStatementAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Amount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1

+ Details

Name:us-gaap_IncomeTaxExpenseBenefit **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

Amount of interest expense classified as nonoperating.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2

+ Details

Name:us-gaap_InterestExpenseNonoperating **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic

10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1

+ Details

Name: us-gaap_NetIncomeLoss **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Generally recurring costs associated with normal operations except for the portion of these expenses which can be clearly related to production and included in cost of sales or services. Includes selling, general and administrative expense.

+ References

No definition available.

+ Details

Name: us-gaap_OperatingExpenses **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- References

No definition available.

+ Details

Name: us-gaap_OperatingExpensesAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

The net result for the period of deducting operating expenses from operating revenues.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31

+ Details

Name: us-gaap_OperatingIncomeLoss **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of income (expense) related to nonoperating activities, classified as other.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2

+ Details

Name: us-gaap_OtherNonoperatingIncomeExpense **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1

+ Details

Name: us-gaap_ResearchAndDevelopmentExpense **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- Definition

Amount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1

+ Details

Name:us-gaap_RestructuringCharges **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4

+ Details
Name:us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- Definition

The aggregate total amount of expenses directly related to the marketing or selling of products or services.

+ References

No definition available.

+ Details
Name:us-gaap_SellingAndMarketingExpense **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16

+ Details
Name:us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**duration

- References

No definition available.

No definition available.

+ Details

Name:us-gaap_WeightedAverageNumberOfSharesOutstandingAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- Definition

Number of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10

+ Details

Name:us-gaap_WeightedAverageNumberOfSharesOutstandingBasic **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**duration XML 22 R4.htm IDEA: XBRL DOCUMENT

Consolidated Statements of Comprehensive Income - USD ($) $ in Millions12 Months Ended

Oct. 27, 2024
Oct. 29, 2023
Oct. 30, 2022

Statement of Comprehensive Income [Abstract] Net income$ 7,177$ 6,856$ 6,525**Other comprehensive income (loss), net of tax:** Change in unrealized gain (loss) on available-for-sale investments4325(74)Change in unrealized net loss on derivative instruments31(66)51Change in defined and postretirement benefit plans(25)2681Other comprehensive income (loss), net of tax49(15)58Comprehensive income$ 7,226$ 6,841$ 6,583

- Definition

Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5

+ Details

Name: us-gaap_ComprehensiveIncomeNetOfTax **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1

+ Details

Name: us-gaap_NetIncomeLoss **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount, after tax and reclassification adjustment, of gain (loss) in value of unsold investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), attributable to parent.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A

+ Details

Name:us-gaap_OtherComprehensiveIncomeAvailableforsaleSecuritiesAdjustmentNetOfTaxPortionAttributableToParent **Namespace Prefix:**us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- Definition

Amount, after tax and reclassification adjustment, of (increase) decrease in accumulated other comprehensive income for defined benefit plan, attributable to parent.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (j) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (k) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A

+ Details

Name:us-gaap_OtherComprehensiveIncomeDefinedBenefitPlansAdjustmentNetOfTaxPortionAttributableToParent **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

Amount, after tax and reclassification, of gain (loss) from derivative instrument designated and qualifying as cash flow hedge included in assessment of hedge effectiveness.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A

+ Details

Name:us-gaap_OtherComprehensiveIncomeLossCashFlowHedgeGainLossAfterReclassificationAndTax **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- Definition

Amount after tax of other comprehensive income (loss) attributable to parent entity.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A

+ Details

Name:us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- References

No definition available.

+ Details

Name:us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParentAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- References

No definition available.

+ Details

Name:us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration XML 23 R5.htm IDEA: XBRL DOCUMENT

Consolidated Balance Sheets - USD ($) $ in Millions Oct. 27, 2024 Oct. 29, 2023

Current assets:		
Cash and cash equivalents	$ 8,022	$ 6,132
Short-term investments	1,449	737
Accounts receivable, net	5,234	5,165
Inventories	5,421	5,725
Other current assets	1,094	1,388
Total current assets	21,220	19,147
Long-term investments	2,787	2,281
Property, plant and equipment, net	3,339	2,723
Goodwill	3,732	3,732
Purchased technology and other intangible assets, net	249	294
Deferred income taxes and other assets	3,082	2,552
Total assets	34,409	30,729
Current liabilities:		
Short-term debt	799	100
Accounts payable and accrued expenses	4,820	4,297
Contract liabilities	2,849	2,975
Total current liabilities	8,468	7,372
Long-term debt	5,460	5,461
Income taxes payable	670	833
Other liabilities	810	714
Total liabilities	15,408	14,380
Commitments and contingencies (Note 13)		
Stockholders' equity:		
Preferred stock: $0.01 par value per share; 1 shares authorized; no shares issued	0	0
Common stock: $0.01 par value per share; 2,500 shares authorized; 818 and 833 shares outstanding at 2024 and 2023, respectively	8	8
Additional paid-in capital	9,660	9,131
Retained earnings	49,651	43,726
Treasury stock: 1,211 and 1,191 shares at 2024 and 2023, respectively	(40,150)	(36,299)
Accumulated other comprehensive loss	(168)	(217)
Total stockholders' equity	19,001	16,349
Total liabilities and stockholders' equity	$ 34,409	$ 30,729

- Definition

Sum of the carrying values as of the balance sheet date of obligations incurred through that date and due within one year (or the operating cycle, if longer), including liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received, taxes, interest, rent and utilities, accrued salaries and bonuses, payroll taxes and fringe benefits.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Amount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2

+ Details

Name: us-gaap_AccountsReceivableNetCurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** instant

- Definition

Carrying amount as of the balance sheet date of the unpaid sum of the known and estimated amounts payable to satisfy all domestic and foreign income tax obligations due beyond one year or the operating cycle, whichever is longer. Alternate captions include income taxes payable, noncurrent.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1

+ Details

Name: us-gaap_AccruedIncomeTaxesNoncurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Amount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14

+ Details

Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Value received from shareholders in common stock-related transactions that are in excess of par value or stated value and amounts received from other stock-related transactions. Includes only common stock transactions (excludes preferred stock transactions). May be called contributed capital, capital in excess of par, capital surplus, or paid-in capital.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_AdditionalPaidInCapitalCommonStock **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Amount of asset recognized for present right to economic benefit.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic

10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1

+ Details

Name:us-gaap_Assets **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount of asset recognized for present right to economic benefit, classified as current.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7

+ Details

Name: us-gaap_AssetsCurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** instant

- References

No definition available.

+ Details

Name: us-gaap_AssetsCurrentAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4

+ Details

Name:us-gaap_CashAndCashEquivalentsAtCarryingValue **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1

+ Details

Name:us-gaap_CommitmentsAndContingencies **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Value of common shares held by shareholders. Excludes common shares repurchased and held as treasury shares.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1

+ Details

Name:us-gaap_CommonStockValueOutstanding **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2

+ Details

Name:us-gaap_ContractWithCustomerLiabilityCurrent **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Amount after allocation of valuation allowances of deferred tax asset attributable to deductible temporary differences and other assets expected to be realized or consumed after one year or normal operating cycle, if longer.

+ References

No definition available.

+ Details

Name:us-gaap_DeferredIncomeTaxesAndOtherAssetsNoncurrent **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1

+ Details

Name:us-gaap_Goodwill **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Sum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1

+ Details

Name:us-gaap_IntangibleAssetsNetExcludingGoodwill **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name:us-gaap_InventoryNet **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30

+ Details

Name: us-gaap_Liabilities **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI

gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_LiabilitiesAndStockholdersEquity **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-5Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7

+ Details
Name: us-gaap_LiabilitiesCurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- References

No definition available.

+ Details
Name: us-gaap_LiabilitiesCurrentAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details
Name: us-gaap_LongTermDebtNoncurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

The total amount of investments that are intended to be held for an extended period of time (longer than one operating cycle)

The total amount of investments that are intended to be held for an extended period of time (longer than one operating cycle).

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_LongTermInvestments **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** instant

- Definition

Amount of current assets classified as other.

+ References

Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_OtherAssetsCurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** instant

- Definition

Amount of liabilities classified as other, due after one year or the normal operating cycle, if longer.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name: us-gaap_OtherLiabilitiesNoncurrent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Aggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1

+ Details

Name: us-gaap_PreferredStockValue **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- Definition

Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.

Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1

+ Details

Name:us-gaap_PropertyPlantAndEquipmentNet **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount of accumulated undistributed earnings (deficit).

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1

+ Details

Name:us-gaap_RetainedEarningsAccumulatedDeficit **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Reflects the total carrying amount as of the balance sheet date of debt having initial terms less than one year or the normal operating cycle, if longer.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1

+ Details

Name:us-gaap_ShortTermBorrowings **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Amount of investments including trading securities, available-for-sale securities, held-to-maturity securities, and short-term investments classified as other and current.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name:us-gaap_ShortTermInvestments **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2

+ Details

Name: us-gaap_StockholdersEquity **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** instant

- References

No definition available.

+ Details

Name: us-gaap_StockholdersEquityAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Amount allocated to previously issued common shares repurchased by the issuing entity and held in treasury.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481520/505-30-50-4Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1

+ Details

Name:us-gaap_TreasuryStockCommonValue **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant XML 24 R6.htm IDEA: XBRL DOCUMENT

Consolidated Balance Sheets (Parenthetical) - $ / shares	Oct. 27, 2024	Oct. 29, 2023
Stockholders' equity:		
Preferred stock, par value per share (in dollars per share)	$ 0.01	$ 0.01
Preferred stock, shares authorized (in shares)	1,000,000	1,000,000
Preferred stock, shares issued (in shares)	0	0
Common stock, par value per share (in dollars per share)	$ 0.01	$ 0.01
Common stock, shares authorized (in shares)	2,500,000,000	2,500,000,000
Common stock, shares outstanding (in shares)	818,000,000	833,000,000
Treasury stock (in shares)	1,211,000,000	1,191,000,000

- Definition

Face amount or stated value per share of common stock.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1

+ Details

Name:us-gaap_CommonStockParOrStatedValuePerShare **Namespace Prefix:**us-gaap_ **Data Type:**dtr-types:perShareItemType **Balance Type:**na **Period Type:**instant

- Definition

The maximum number of common shares permitted to be issued by an entity's charter and bylaws.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1

+ Details

Name:us-gaap_CommonStockSharesAuthorized **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3

+ Details

Name:us-gaap_CommonStockSharesOutstanding **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Face amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13

+ Details

Name:us-gaap_PreferredStockParOrStatedValuePerShare **Namespace Prefix:**us-gaap_ **Data Type:**dtr-types:perShareItemType **Balance Type:**na **Period Type:**instant

- Definition

The maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1

+ Details

Name:us-gaap_PreferredStockSharesAuthorized **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Number of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13

+ Details

Name:us-gaap_PreferredStockSharesIssued **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- References

No definition available.

+ Details

Name: us-gaap_StockholdersEquityAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Number of previously issued common shares repurchased by the issuing entity and held in treasury.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1

+ Details

Name: us-gaap_TreasuryStockCommonShares **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:sharesItemType **Balance Type:** na **Period Type:** instant XML 25 R7.htm IDEA: XBRL DOCUMENT

Consolidated Statements of Stockholders' Equity - USD ($) shares in Millions, $ in Millions	Total	Common Stock	Additional Paid-In Capital	Retained Earnings	Treasury Stock	Accumulated Other Comprehensive Income (Loss)
Beginning Balance (in shares) at Oct. 31, 2021	892					
Beginning Balance at Oct. 31, 2021	$ 12,247	$ 9	$ 8,247	$ 32,246	$ (27,995)	$ (260)
Treasury stock, beginning balance (in shares) at Oct. 31, 2021	1,119					
Increase (Decrease) in Stockholders' Equity [Roll Forward]						
Net income	6,525			6,525		
Other comprehensive income (loss), net of tax	58					58
Dividends declared	(879)			(879)		
Share-based compensation	413		413			
Net issuance under stock plans (in shares)	6					
Net issuance under stock plans	$ (67)		(67)			
Common stock repurchases, (in shares)	(54)				(54)	
Common stock repurchases	$ (6,103)		$ (1)		$ (6,102)	
Ending Balance (in shares) at Oct. 30, 2022	844					
Ending Balance at Oct. 30, 2022	12,194	$ 8	8,593	37,892	$ (34,097)	(202)
Treasury stock, ending balance (in shares) at Oct. 30, 2022	1,173					
Increase (Decrease) in Stockholders' Equity [Roll Forward]						
Net income	6,856			6,856		
Other comprehensive income (loss), net of tax	(15)		(15)			
Dividends declared	(1,022)			(1,022)		
Share-based compensation	490		490			
Net issuance under stock plans (in shares)	7					
Net issuance under stock plans	$ 48		48			
Common stock repurchases, (in shares)	(18)				(18)	
Common stock repurchases	$ (2,202)		$ (2,202)			
Ending Balance (in shares) at Oct. 29, 2023	833					
Ending Balance at Oct. 29, 2023	$ 16,349	$ 8	9,131	43,726	$ (36,299)	(217)
Treasury stock, ending balance (in shares) at Oct. 29, 2023	1,191					
Increase (Decrease) in Stockholders' Equity [Roll Forward]						
Net income	$ 7,177			7,177		
Other comprehensive income (loss), net of tax	49					49
Dividends declared	(1,252)			(1,252)		
Share-based compensation	577		577			
Net issuance under stock plans (in shares)	5					
Net issuance under stock plans	$ (48)		(48)			
Common stock repurchases, (in shares)	(20)				(20)	
Common stock repurchases	$ (3,851)		$ (3,851)			
Ending Balance (in shares) at Oct. 27, 2024	818	818				
Ending Balance at Oct. 27, 2024	$ 19,001	$ 8	$ 9,660	$ 49,651	$ (40,150)	$ (168)
Treasury stock, ending balance (in shares) at Oct. 27, 2024	1,211				1,211	

- Definition

Amount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12

+ Details

Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3

+ Details

Name:us-gaap_CommonStockSharesOutstanding **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Amount of paid and unpaid common stock dividends declared with the form of settlement in cash.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1

+ Details

Name:us-gaap_DividendsCommonStockCash **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period.

+ References

No definition available.

+ Details

Name:us-gaap_IncreaseDecreaseInStockholdersEquityRollForward **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- Definition

The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-

S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1

+ Details

Name: us-gaap_NetIncomeLoss **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount after tax of other comprehensive income (loss) attributable to parent entity.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A

+ Details

Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Number, after forfeiture, of shares or units issued under share based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP).

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1

+ Details

Name: us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensation **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:sharesItemType **Balance Type:** na **Period Type:** duration

- Definition

Value, after forfeiture, of shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP).

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2

+ Details

Name: us-gaap_StockIssuedDuringPeriodValueShareBasedCompensation **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(q)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12:

http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2

+ Details

Name:us-gaap_StockholdersEquity **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**instant

- Definition

Number of previously issued common shares repurchased by the issuing entity and held in treasury.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1

+ Details

Name:us-gaap_TreasuryStockCommonShares **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**instant

- Definition

Number of shares that have been repurchased during the period and are being held in treasury.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1

+ Details

Name:us-gaap_TreasuryStockSharesAcquired **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:sharesItemType **Balance Type:**na **Period Type:**duration

- Definition

Equity impact of the cost of common and preferred stock that were repurchased during the period. Recorded using the cost method.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1

+ Details

Name:us-gaap_TreasuryStockValueAcquiredCostMethod **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration XML 26 R8.htm IDEA: XBRL DOCUMENT

Consolidated Statements of Stockholders' Equity (Parenthetical) - $ / shares3 Months Ended12 Months Ended

Oct. 27, 2024
Jul. 28, 2024
Apr. 28, 2024
Jan. 28, 2024
Oct. 29, 2023
Jul. 30, 2023
Apr. 30, 2023
Jan. 29, 2023
Oct. 30, 2022
Jul. 31, 2022
May 01, 2022
Jan. 30, 2022
Oct. 27, 2024
Oct. 29, 2023
Oct. 30, 2022

Statement of Stockholders' Equity [Abstract] Dividends declared per share (in dollars per share)$ 0.40$ 0.40$ 0.40$ 0.32$ 0.32$ 0.32$ 0.32$ 0.26$ 0.26$ 0.26$ 0.26$ 0.24$ 1.52$ 1.22$ 1.02

- Definition

Aggregate dividends declared during the period for each share of common stock outstanding.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1

+ Details

Name:us-gaap_CommonStockDividendsPerShareDeclared **Namespace Prefix:**us-gaap_ **Data Type:**dtr-types:perShareItemType **Balance Type:**na **Period Type:**duration

- References

No definition available.

+ Details

Name:us-gaap_StatementOfStockholdersEquityAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration XML 27 R9.htm IDEA: XBRL DOCUMENT

Consolidated Statements of Cash Flows - USD ($) $ in Millions12 Months Ended

Oct. 27, 2024
Oct. 29, 2023
Oct. 30, 2022

Cash flows from operating activities: Net income$ 7,177$ 6,856$ 6,525**Adjustments required to reconcile net income to cash provided by operating activities:** Depreciation and amortization392515444Severance and related charges00(4)Deferred income taxes(633)24(223)Share-based compensation577490413Other474036**Changes in operating assets and liabilities, net of amounts acquired:** Accounts receivable(69)903(1,109)Inventories304207(1,590)Other current and non-current assets287(48)(16)Accounts payable and accrued expenses281(138)390Contract liabilities(126)(167)1,039Income taxes payable389(20)(541)Other liabilities513835Cash provided by operating activities8,6778,7005,399**Cash flows from investing activities:** Capital expenditures(1,190)(1,106)(787)Cash paid for acquisitions, net of cash acquired0(25)(441)Proceeds from sales and maturities of investments2,4511,2681,363Purchases of investments(3,588)(1,672)(1,492)Cash used in investing activities(2,327)(1,535)(1,357)**Cash flows from financing activities:** Debt borrowings, net of issuance costs69400Proceeds from commercial paper4019910Repayments of commercial paper(400)(900)0Proceeds from common stock issuances243227199Common stock repurchases(3,823)(2,189)(6,103)Tax withholding payments for vested equity awards(291)(179)(266)Payments of dividends to stockholders(1,192)(975)(873)Repayments of principals on finance leases(102)(7)0Cash used in financing activities(4,470)(3,032)(7,043)Increase (decrease) in cash, cash equivalents and restricted cash equivalents1,8804,133(3,001)Cash, cash equivalents and restricted cash equivalents — beginning of period6,2332,1005,101Cash, cash equivalents and restricted cash equivalents — end of period8,1136,2332,100**Reconciliation of cash, cash equivalents, and restricted cash equivalents** Cash and cash equivalents8,0226,1321,995Restricted cash equivalents included in deferred income taxes and other assets91101105Total cash, cash equivalents, and restricted cash equivalents8,1136,2332,100**Supplemental cash flow information:** Cash payments for income taxes9571,0061,869Cash refunds from income taxes1553156Cash payments for interest$ 205$ 205$ 205

- References

No definition available.

+ Details

Name:us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- Definition

Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4

+ Details

Name:us-gaap_CashAndCashEquivalentsAtCarryingValue **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- Definition

Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4

+ Details

Name:us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**instant

- References

No definition available.

+ Details

Name:us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsAbstract **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:stringItemType **Balance Type:**na **Period Type:**duration

- Definition

Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1

+ Details

Name:us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

The current period expense charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1

+ Details

Name:us-gaap_DepreciationAndAmortization **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**debit **Period Type:**duration

- Definition

Amount of cash outflow for principal payment on finance lease.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5

+ Details

Name:us-gaap_FinanceLeasePrincipalPayments **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- Definition

Amount, before refund, of cash paid to foreign, federal, state, and local jurisdictions as income tax.

+ References

Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-23Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-22Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2

+ Details

Name:us-gaap_IncomeTaxesPaid **Namespace Prefix:**us-gaap_ **Data Type:**xbrli:monetaryItemType **Balance Type:**credit **Period Type:**duration

- Definition

The increase (decrease) during the reporting period in the amounts payable to vendors for goods and services received and the amount of obligations and expenses incurred but not paid.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInAccountsPayableAndAccruedLiabilities **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- Definition

The increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInAccountsReceivable **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

The increase (decrease) during the period in the amount due for taxes based on the reporting entity's earnings or attributable to the entity's income earning process (business presence) within a given jurisdiction.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInAccruedIncomeTaxesPayable **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- Definition

Amount of increase (decrease) in obligation to transfer good or service to customer for which consideration has been received or is receivable.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-11Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInContractWithCustomerLiability **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- Definition

The increase (decrease) during the reporting period in the account that represents the temporary difference that results from Income or Loss that is recognized for accounting purposes but not for tax purposes and vice versa.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInDeferredIncomeTaxes **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

The increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as

operating activities.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInInventories **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- References

No definition available.

+ Details

Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:stringItemType **Balance Type:** na **Period Type:** duration

- Definition

Amount of increase (decrease) in operating assets classified as other.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInOtherOperatingAssets **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of increase (decrease) in operating liabilities classified as other.

+ References

Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28

+ Details

Name: us-gaap_IncreaseDecreaseInOtherOperatingLiabilities **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** debit **Period Type:** duration

- Definition

Amount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2

+ Details

Name: us-gaap_InterestPaidNet **Namespace Prefix:** us-gaap_ **Data Type:** xbrli:monetaryItemType **Balance Type:** credit **Period Type:** duration

- Definition

Amount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit.

+ References

Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24

+ Details

Name: us-gaap_NetCashProvidedByUsedInFinancingActivities **Namespace Prefix:** us-gaap_ **Data Type:**