



Over the past year, SNPS shares are down 20.7%, versus a gain of 11.5% for the broader market. The 52 week trading range is \$365.74 to \$624.80. The Argus A6 target price is \$490 representing a 5.1% gain from the current level.

Synopsys is a provider of electronic design automation software and intellectual property products. EDA software automates and aids in the chip design process, enhancing design accuracy, productivity, and complexity in a full-flow end-to-end solution.

| Growth Analysis | GAAP Data | | | | | Growth Rates | | |
|------------------------|-----------|--------|--------|-------|-------|--------------|--------|--------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 1-Year | 3-Year | 5-Year |
| Revenue (B) | 3.7 | 4.2 | 5.1 | 5.8 | 6.1 | 5% | 46% | 82% |
| Gross Margin | 78% | 80% | 79% | 79% | 80% | 1% | 0% | 3% |
| Operating Income | 656.2M | 768.2M | 1.2B | 1.3B | 1.4B | 1% | 76% | 139% |
| Interest Expense (M) | 5.1 | 3.4 | 1.7 | 1.2 | 35.2 | NM | 945% | 202% |
| Pre Tax Income | 638.2M | 805.5M | 1.1B | 1.3B | 1.5B | 16% | 88% | 178% |
| Net Income | 664.3M | 757.5M | 984.6M | 1.2B | 2.3B | 84% | 199% | 325% |
| EPS | 4.27 | 4.81 | 6.29 | 7.92 | 14.51 | 83% | 202% | 321% |
| Dividend/Share | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| Shares Outstanding (M) | 155.7 | 157.3 | 156.5 | 155.2 | 155.9 | 0% | -1% | 1% |
| Market Cap (B) | 33.3 | 52.4 | 45.8 | 72.9 | 85.4 | 17% | 63% | 308% |
| Book Value (B) | 1.29 | 1.44 | 1.29 | 1.70 | 5.35 | 214% | 271% | 745% |

| Financial Condition | GAAP Data | | | | | Growth Rates | | |
|----------------------------|-----------|--------|--------|--------|-------|--------------|--------|--------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 1-Year | 3-Year | 5-Year |
| Cash / Short Term Inv. (B) | 1.2 | 1.6 | 1.6 | 1.6 | 4.1 | 155% | 156% | 456% |
| Current Assets (B) | 2.5 | 2.8 | 3.0 | 3.4 | 6.5 | 89% | 130% | 272% |
| Current Liabilities (B) | 2.1 | 2.4 | 2.8 | 3.0 | 2.7 | -11% | 10% | 51% |
| Working Capital | 409.3M | 394.9M | 238.2M | 445.2M | 3.8B | 758% | 867% | NM |
| Short-Term Debt (M) | 27.1 | 75.0 | Nil | Nil | Nil | Nil | Nil | Nil |
| Long Term Debt (M) | 100.8 | 25.1 | 20.8 | 18.1 | 15.6 | -14% | -38% | -87% |
| Total Debt (M) | 663.5 | 666.8 | 656.4 | 687.8 | 684.5 | 0% | 3% | 397% |
| Shareholders Equity (B) | 4.9 | 5.3 | 5.5 | 6.1 | 9.0 | 46% | 70% | 120% |

| Ratio Analysis | Trend | | | | | | | |
|-----------------------|-------|-------|-------|--------|------|--------|--------|--------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 1-Year | 3-Year | 5-Year |
| Operating Margin | 18% | 18% | 23% | 23% | 22% | Lower | Higher | Higher |
| Net Margin | 18% | 18% | 19% | 21% | 37% | Higher | Higher | Higher |
| ROE | 15% | 15% | 18% | 21% | 30% | Higher | Higher | Higher |
| ROA | 9% | 9% | 11% | 12% | 19% | Higher | Higher | Higher |
| Current Ratio | 1.2 | 1.2 | 1.1 | 1.1 | 2.4 | Higher | Higher | Higher |
| Interest Coverage | 125.2 | 240.4 | 658.0 | 1106.1 | 44.1 | Lower | Lower | Lower |
| Dividend Payout Ratio | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| L-T Debt/Equity | 11% | 10% | 11% | 10% | 7% | Lower | Lower | Higher |
| Total Debt/Total Cap | 10% | 9% | 10% | 9% | 6% | Lower | Lower | Higher |

| Valuation Analysis | Trend | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 1-Year | 3-Year | 5-Year |
| Price - Year End | 213.86 | 333.18 | 292.55 | 469.44 | 547.52 | Higher | Higher | Higher |
| 52-Week High | 229.36 | 337.74 | 390.45 | 496.23 | 621.30 | Higher | Higher | Higher |
| 52-Week Low | 108.48 | 215.49 | 260.83 | 276.57 | 475.38 | Higher | Higher | Higher |
| P/E High | 53.7 | 70.2 | 62.1 | 62.7 | 42.8 | Lower | Lower | Higher |
| P/E Low | 25.4 | 44.8 | 41.5 | 34.9 | 32.8 | Lower | Lower | Higher |
| P/S High | Nil | Nil | 12.4 | 14.0 | 14.9 | Higher | Nil | Higher |
| P/S Low | Nil | Nil | 8.3 | 7.8 | 11.4 | Higher | Nil | Higher |
| P/B High | Nil | Nil | 10.6 | 12.7 | 12.4 | Lower | Nil | Higher |
| P/B Low | Nil | Nil | 7.1 | 7.1 | 9.5 | Lower | Nil | Higher |
| Yield High | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| Yield Low | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| Return | 58% | 56% | -12% | 60% | 17% | Lower | Lower | Nil |

Argus Rating: **HOLD**

Rating Since: 09/11/24

Current Price: \$466.26

Target Price: \$490.00

Market Cap: \$72.3 billion

Dividend: Nil

Yield: Nil

Beta: 1.73

Sector: Information Technology

Industry: Software Applications

Argus A6 Sub-component Scores

H High M Medium L Low

H Industry

Earnings revisions, analyst conviction, performance and historical industry weighting.

M Management

Consistency of growth & financial strength.

M Safety

Liquidity, dividend yield, market cap, debt leverage and stock price beta.

M Financial Strength

Balance sheet debt and liquidity ratios.

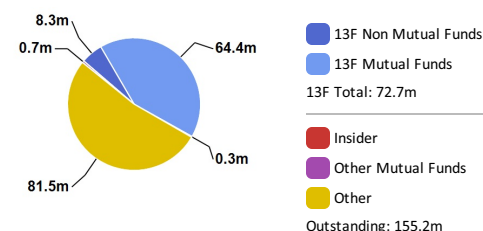
M Growth

Normalized earnings estimates and sales trends.

H Value

Price/earnings, price/sales ratios, trend lines, and DCF valuation.

Vicker's Institutional & Insider Holdings



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Peer Comparison Table: Information Technology

| Ticker | Company | Price(\$) | Market Cap (Millions \$) | 5-yr EPS Growth Rate | Current FY P/E | Net Margin | 1-yr EPS Growth Rate | Argus Rating |
|--------------|------------------------|-----------|--------------------------|----------------------|----------------|------------|----------------------|--------------|
| CDNS | CADENCE DESIGN SYS INC | 293.33 | 80,091.41 | 9% | 64.53 | Nil | 1% | HOLD |
| SNPS | SYNOPSYS INC | 466.26 | 72,345.34 | 321% | 47.87 | Nil | 83% | HOLD |
| SNOW | SNOWFLAKE INC-CLASS A | 209.15 | 69,793.36 | Nil | Nil | Nil | Nil | SELL |
| ADSK | AUTODESK INC | 299.52 | 64,097.28 | 433% | 55.52 | Nil | 22% | BUY |
| WDAY | WORKDAY INC-CLASS A | 251.12 | 54,241.92 | Nil | 95.95 | Nil | -63% | HOLD |
| Peer Average | | | 68,113.9 | 153% | 53 | Nil | 9% | |

Our rating on the Information Technology sector is Over-Weight. Consumer electronics demand, which was reduced by inflation, is now showing signs of recovery. IT demand in enterprise and data center markets weakened after consumer demand but now also shows signs of recovery, fueled by mounting interest in generative AI.

As of the end of April, the sector accounted for 30.3% of the S&P 500. Over the past five years, the weighting has ranged from 16% to 33%. The sector was underperforming the market, with a loss of 11.4%. The sector outperformed in 2024, with a gain of 35.7% compared to a gain of 23.3% for the S&P 500.

The sector's P/E ratio on projected 2025 EPS was 21, above the market multiple. Yields of 0.2% were below the market average. The sector's smoothed earnings growth rate of 15% was above the market average.

Over the long term, we expect the Tech sector to benefit from pervasive digitization across the economy, greater acceptance of transformative technologies, and the development of the Internet of Things (IoT). Generative AI is poised to become a huge industry driver, although timeline of actual AI deployments is uncertain. Healthy company and sector fundamentals are also positive. For individual companies, these include high cash levels, low debt, and broad international business exposure.

Key Sector Trends

Communications Equipment

- Data demand is exploding because of mobile internet, video on the web, social networking and other factors. Generative AI has shifted from an emerging driver to perhaps the most-significant factor in communications equipment demand. AI is driving demand for bandwidth capacity at the optical transport level as well as network efficiency (IP) and ubiquity (Ethernet) at the access level.
- Prevailing trends in the global information society - including collaboration, virtualization, cloud, social networking, and exponential growth in "big" file-based data - are driving the need for more network "intelligence," meaning security, efficiency, extensibility, personalization, and sophisticated data management. Mobility, once a voice-centric domain, now encompasses mobile internet, and this reality

- is impacting device demand trends in computing and communications.

Information Processing

- AI is driving growth in computing, both in GPU-based servers and in on-device Gen AI for PCs and smartphones. It also is disrupting the data center, as cloud service providers accelerate growth with the help of leading computing and semiconductor companies. .

Semiconductors

- Overall semiconductor demand, formerly driven by first by PCs and then by the proliferation of mobile devices, now has multiple secular drivers. These include AI data center, legacy cloud data center, Internet of Things (IoT) & factory automation, EV & hybrid EV, autonomous vehicles, robotics, and more
- The need for massive GPU clusters to train Large Language Models (LLMs) and for inferencing for generative AI has led to explosive demand for GPU computing implementations and has become as one of the most significant semiconductor drivers.
- ARM-based cores (licensed from ARM Holdings Ltd.) that power smartphones and tablet PCs have disrupted the hegemony in processing once enjoyed by x86 architecture. Traditional x86 processor companies such as Intel and AMD are fighting back with lower-power products that integrate central processing and graphics processing within a single die.
- The nature of memory is changing, with mobile computers transitioning away from hard disk drive-based memory (HDD) to solid-state memory (SSD). Memory demand too is accelerating as data storage accommodates massive AI-related traffic flows.

Software

- New software-centric developments such as collaboration, virtualization, cloud computing, SaaS, analytics, and interactivity are transferring the software power center onto public and private cloud networks serving enterprises. At the same time, advances in mobility and competitive developments have driven demand for mobile devices and, in turn, mobile applications supplied by nontraditional players.
- These factors have diminished the central role once played by Microsoft's operating system and applications. At the same time, enterprise software companies have prioritized enabling AI for their customers, leading to strong growth for major industry participants including Salesforce Inc, ServiceNow, Oracle, and more.

Argus A6 Quantitative Universe

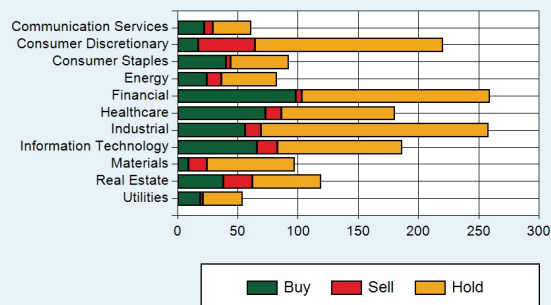
Our A6 Quantitative Universe includes more than 1,500 companies that are diversified across all asset classes and industry sectors. Ratings for these companies are derived through a proprietary algorithm we have designed and tested so that the ratings are based on our fundamental Six-Point System. Our A6 Quantitative Ratings include sub-ratings for each of the six factors.

The A6 algorithm is designed to capture and analyze financial trends for each company under coverage. Companies are measured against their historical record, peer group, and the broad market. For each covered company, the A6 algorithm generates a subrating for growth, financial strength, industry outlook, management, risk/safety and valuation. These scores are totaled and provide an overall rating for each company. The A6 algorithm rates stocks on growth based on normalized earnings estimates and sales trends, among other factors. Our financial strength ranking is based primarily on balance sheet debt and liquidity ratios. For risk, we factor in liquidity, dividend yield, market cap, debt leverage and stock price beta. Our valuation subrating includes factors such as price/earnings and price/sales ratios, trend lines, and discounted cash flow valuations. Ratings are reviewed weekly.

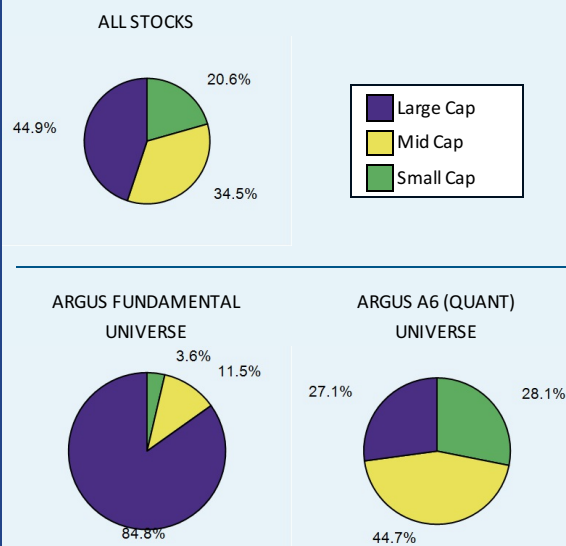
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RATING DISTRIBUTION SECTOR



MARKET CAP DISTRIBUTION



CURRENT RATING DISTRIBUTION

