

High Performance Computing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Components (Hardware, Software), Deployment Model (On-Premises, On-Demand), End-User Vertical (BFSI, Healthcare, Manufacturing, IT, and Telecommunications), By Region, and By Competition 2019-2029

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# **Abstracts**

Global High Performance Computing Market was valued at USD 55.71 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 10.94% through 2029. Factors such as the increasing investments in the Industrial Internet of Things (IIoT), Artificial Intelligence (AI), and engineering, which demand Electronic Design Automation (EDA), are likely to drive the market over the forecast period. The market has been augmented by the continued investment from hardware providers to develop solutions that support these capabilities. In addition, countries like the United States, Germany, the United Kingdom, Japan, and China, among others, have acknowledged the significance of such technologies as an essential driver for economic growth. These countries are potential markets for HPC solutions, which support these initiatives while preserving cost and performance efficiencies.

Moreover, without the appropriate tools and technology, it becomes practically difficult to handle the growing need for short product development cycles (PLCs) and the requirement to maintain quality in real time. High-performance Computing (HPC) systems with Computer-aided Engineering (CAE) software for high-fidelity modeling simulation are becoming more widely used in various sectors, including discrete manufacturing, robotics in healthcare, and the automotive industry, fueling the market growth.



Key Market Drivers

Security Enhancements

The global high-performance computing (HPC) market is driven by a myriad of factors that collectively contribute to its growth and widespread adoption across various industries. These drivers reflect the ongoing demand for advanced computing solutions, technological innovations, and the strategic importance of HPC in fostering economic development and competitiveness. One of the primary drivers of the HPC market is the increasing demand for advanced computing solutions across industries. As organizations strive to tackle increasingly complex problems, HPC systems provide the necessary computational power to perform intricate simulations, data analyses, and modeling. This demand is particularly evident in sectors such as healthcare, finance, research, and manufacturing, where HPC plays a pivotal role in driving innovation and efficiency.

The rise of artificial intelligence (AI) and machine learning (ML) applications is another key driver propelling the HPC market forward. AI and ML algorithms often require substantial computational resources for training and execution. HPC systems, with their parallel processing capabilities, enable organizations to efficiently handle the computational demands of these advanced technologies. This has led to a surge in HPC adoption in sectors ranging from healthcare diagnostics to financial risk analysis.

The expansion of big data analytics is closely intertwined with the growth of HPC. As organizations grapple with massive volumes of data, the need for high-speed processing and analysis becomes paramount. HPC solutions enable accelerated data processing, facilitating the extraction of meaningful insights from large datasets. This is crucial for informed decision-making across industries, including retail, telecommunications, and logistics. In the realm of scientific research and engineering, HPC plays a foundational role in conducting simulations and complex computations. Whether it's simulating climate patterns, modeling molecular structures, or optimizing engineering designs, HPC systems are indispensable for pushing the boundaries of knowledge and innovation. Researchers and engineers rely on the computational power of HPC to advance their fields and address real-world challenges. Government initiatives and funding further contribute to the expansion of the HPC market. Recognizing the strategic importance of high-performance computing in driving innovation and economic growth, many governments globally have initiated programs to support HPC research and development. These initiatives aim to ensure that countries



remain at the forefront of technological advancements, fostering a competitive edge in the global landscape.

Technological advancements in HPC systems continually enhance their capabilities. Innovations in processor technologies, parallel computing architectures, and interconnectivity solutions contribute to the overall performance improvement of HPC systems. This ongoing evolution attracts organizations seeking to leverage cutting-edge technologies to gain a competitive advantage. The integration of HPC with cloud computing platforms and the emergence of HPC as a Service (HPCaaS) is another notable driver. Cloud-based HPC solutions provide organizations with flexibility, scalability, and cost-effectiveness. This has democratized access to HPC resources, enabling smaller enterprises to leverage advanced computing capabilities without significant upfront investments in infrastructure.

Energy efficiency is a growing concern in the HPC landscape. As computational demands increase, there is a simultaneous focus on developing energy-efficient HPC solutions. Innovations in cooling technologies and the design of energy-efficient components aim to strike a balance between performance and operational costs, addressing both economic and environmental considerations.

The global competitiveness of nations and businesses is closely tied to their technological capabilities. Recognizing this, investments in HPC infrastructure are viewed as essential for maintaining a competitive edge and fostering economic growth. Nations and enterprises alike prioritize HPC as a strategic enabler of innovation and technological leadership. The rise of edge computing, where processing occurs closer to the data source, has implications for HPC. In certain applications, having high-performance computing capabilities at the edge is becoming essential, driving demand for more distributed HPC architectures that can efficiently handle decentralized processing requirements. In conclusion, the global HPC market is shaped by a confluence of factors, including increasing computational demands, advancements in technology, government support, and the pursuit of global competitiveness. As industries continue to embrace digital transformation and tackle complex challenges, the role of high-performance computing is poised to remain pivotal in driving innovation and shaping the future of various sectors.

#### Key Market Challenges

The global high-performance computing (HPC) market, while experiencing remarkable growth and innovation, is not without its share of challenges. These challenges, ranging



from economic considerations to technological complexities, impact the adoption, implementation, and optimization of HPC systems across various industries. Cost of Implementation and Maintenance: High-performance computing systems often come with a substantial upfront cost for both hardware and software. The complexity of these systems and the need for specialized components contribute to a significant financial barrier. Additionally, ongoing maintenance costs can be substantial, limiting adoption, especially among smaller enterprises with budget constraints.

Energy Consumption and Efficiency: The exponential growth in computational power in HPC systems is accompanied by a corresponding increase in energy consumption. Managing the energy efficiency of these systems is not only crucial for operational costs but is also becoming a pressing concern in the context of environmental sustainability. Striking a balance between performance and energy efficiency remains a persistent challenge. Complexity of Programming and Software Optimization: Programming for HPC environments demands specialized skills. Developing software that can effectively harness the parallel processing capabilities of HPC architectures is complex. The challenge lies not only in creating optimized code but also in adapting it to different HPC architectures. This complexity can hinder the widespread adoption of HPC solutions.

Limited Software Ecosystem: The availability of software tailored for HPC environments is relatively limited compared to conventional computing. The shortage of specialized software tools and applications hampers the seamless integration of HPC into various industries. The development of a richer software ecosystem that addresses diverse application needs is essential for the broader adoption of HPC.

Interoperability and Standardization: The HPC landscape is characterized by diverse architectures and technologies. Achieving interoperability and standardization across different HPC systems is a challenging task. The absence of common standards can lead to compatibility issues, making it difficult to port applications between different HPC environments seamlessly. Data Management and Storage Challenges: Efficiently managing and storing the massive volumes of data processed by HPC systems pose significant challenges. In real-time applications, handling and storing large datasets become critical. Striking a balance between high-speed processing and scalable, cost-effective storage solutions is a persistent concern in the HPC market.

Skills Shortage and Training: There is a notable shortage of skilled professionals with expertise in high-performance computing. Training personnel to effectively use and manage HPC systems is essential but can be resource-intensive. The shortage of a skilled workforce capable of maximizing the potential of HPC resources represents a



barrier to widespread adoption. Security Concerns: HPC systems often handle sensitive data and perform critical simulations, making them attractive targets for cyber threats. Ensuring the security of HPC environments, including protection against data breaches and unauthorized access, is an ongoing challenge that requires constant vigilance and investment in cybersecurity measures.

Customization and Scalability Issues: Tailoring HPC solutions to meet specific application requirements can be intricate. Achieving scalability without compromising performance is a delicate balance. Organizations may encounter challenges in customizing HPC systems to suit their unique needs while maintaining the flexibility to scale operations as demand evolves.

Global Supply Chain Disruptions: The HPC market relies on a global supply chain for critical components and technologies. Disruptions in the supply chain, whether due to geopolitical tensions, natural disasters, or unforeseen events, can impact the availability and cost of essential components. Such disruptions can affect the timely deployment and maintenance of HPC systems.

Integration with Emerging Technologies: As HPC systems evolve, integrating them with emerging technologies such as quantum computing or advanced accelerators presents challenges. Ensuring seamless compatibility and collaboration between HPC and these emerging computing paradigms is an ongoing concern as both HPC and these technologies continue to advance. In conclusion, while the global HPC market continues to witness significant advancements, addressing these challenges is essential for unlocking its full potential. Researchers, industry professionals, and policymakers are actively working to find solutions to these issues, thereby paving the way for a more accessible, efficient, and secure high-performance computing landscape.

#### Key Market Trends

The global high-performance computing (HPC) market is characterized by dynamic trends that reflect the evolving needs of industries, technological advancements, and the pursuit of increased computational capabilities.

Exponential Growth in AI and ML Applications: The integration of artificial intelligence (AI) and machine learning (ML) into various industries is a major trend driving the HPC market. The computational demands of training and executing complex AI and ML algorithms are substantial, and HPC systems provide the necessary power to handle these workloads efficiently. This trend is particularly evident in sectors such as



healthcare, finance, and autonomous vehicles. Rise of Hybrid and Accelerated Computing Architectures: To address the increasing demand for performance, there is a trend toward hybrid computing architectures that combine traditional processors (CPUs) with accelerators such as graphics processing units (GPUs) or field-programmable gate arrays (FPGAs). These configurations enhance parallel processing capabilities and are well-suited for specific workloads, including AI, simulations, and data analytics. Convergence of Big Data and HPC: The convergence of big data and HPC is a notable trend as organizations seek to extract actionable insights from massive datasets. HPC systems play a crucial role in accelerating data processing and analytics, enabling faster decision-making in areas such as financial services, healthcare, and scientific research.

Advancements in Quantum Computing: While still in the early stages of development, quantum computing represents a significant trend in the HPC market. Quantum systems have the potential to revolutionize certain types of computations, solving complex problems that are currently beyond the reach of classical HPC. As quantum technologies mature, their integration with traditional HPC architectures is expected to shape the future of high-performance computing.

Increased Focus on Edge Computing: Edge computing, where processing occurs closer to the data source, is gaining prominence. This trend is driven by the need for real-time processing in applications such as IoT (Internet of Things), smart cities, and autonomous vehicles. HPC capabilities at the edge are becoming crucial for handling data-intensive tasks with low latency requirements.

Cloud Integration and HPC as a Service (HPCaaS): Cloud computing continues to influence the HPC landscape, providing scalable and flexible solutions. HPCaaS allows organizations to access high-performance computing resources without investing in dedicated infrastructure. This trend fosters collaboration, accelerates time-to-solution, and enables smaller enterprises to leverage HPC capabilities. Focus on Energy Efficiency: Addressing energy efficiency concerns is a growing trend in the HPC market. As computational demands increase, there is a heightened focus on designing energy-efficient HPC systems. Innovations in cooling technologies, power management, and energy-aware scheduling contribute to making HPC environments more sustainable and cost-effective.

Advancements in Networking Technologies: The efficiency of HPC systems depends on robust networking infrastructure. Trends in high-speed interconnects, such as InfiniBand and Omni-Path, contribute to reducing communication bottlenecks in parallel



processing. Enhanced network capabilities are crucial for achieving optimal performance in large-scale HPC clusters. Application-specific Customization: Organizations are increasingly seeking application-specific customization of HPC solutions to address their unique requirements. Customization may involve tailoring HPC architectures for specific workloads, optimizing software stacks, or integrating specialized accelerators. This trend reflects a growing recognition of the importance of aligning HPC resources with specific application needs.

Global Collaborations and Supercomputing Initiatives: Nations and institutions are actively collaborating on supercomputing initiatives to enhance research capabilities and maintain competitiveness. These initiatives underscore the strategic importance of HPC in scientific discovery, national security, and economic advancement. Focus on Data Privacy and Security: With the increasing reliance on HPC for handling sensitive data, there is a growing trend towards reinforcing data privacy and security measures. This includes implementing robust encryption, secure data transfer protocols, and adherence to compliance standards to protect against cyber threats and unauthorized access. In conclusion, the global HPC market is marked by trends that emphasize the integration of advanced technologies, customization, and a broader application scope. These trends collectively contribute to the ongoing evolution of high-performance computing, shaping its role in addressing complex challenges across diverse industries. As technology continues to advance, it is essential to monitor how these trends evolve and influence the trajectory of the HPC market.

#### Segmental Insights

#### **Deployment Model Insights**

On Premises segment will dominate the market in the forecast period. With its ability to take advantage of all the overall HPC system's capabilities and not be hindered by connection problems, an on premise model has a significant market share. Aditionally, the companies that have already established storage and legacy systems are generally large-scale enterprises which prefer the on-premise deployment of HPC solutions, fueling the market during the forecast period.

There is an increasing use of onpremise systems in large research, analytical and modelling applications as well as a key need for access to timely data. In addition, this trend is reinforced by the increasing complexity of operations and the increasing capabilities of these systems, which increase the output and input capacity of high performance computing systems. Another main driver for this model is the security of



private data. This way of preventing database attacks is used by businesses and government agencies, particularly in the defence sector. The physical presence requirement has a strong impact on the security and integrity of the system, application and data. Moreover, due to the increasing cyber threat and the emergence of more advanced technologies such as facial recognition and global security databases, it is anticipated that these systems will be introduced into the defence sector. Due to the increasing need of privacy, and security in the defence sector, the on premise deployment of HPC is gaining traction in the defence application worldwide.

#### **Regional Insights**

North America emerged as the dominating region in 2023, holding the largest market share. North America is one of the most important markets for High Performance Computing. The North American region is recognized for its early adoption of advanced technologies because of the Technical advancement in the United States and Canada. The development of new technologies and the need for security are encouraging the use of high performance computing systems. The expansion will affect both types of large data. North America will remain the world's market leader in high performance computing during this projection period. One key factor underpinning this demand is the increased government expenditure on research and development activities.

Additionally, the US government has introduced the High-Performance Computing for Manufacturing program to increase the country's capabilities in high computing processing to address the manufacturing challenges and support the country's initiatives for a clean energy future for all Americans.

For instance, in January 2023, the Department of Energy of the USA announced an investment amount of USD 1.8 million for six teams who would work with the U.S. National Laboratories' high-performance computing (HPC) department to help manufacturers streamline their processes, increase productivity, and lower their carbon footprint in the country, would support the market growth in the North American region.

Key Market Players

Advanced Micro Devices Inc.

**NEC** Corporation

Hewlett Packard Enterprise



Sugon Information Industry Co. Ltd

Fujitsu Limited

Intel Corporation

International Business Machines Corporation

Microsoft Corporation

Report Scope:

In this report, the Global High Performance Computing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

High Performance Computing Market, By Components:

Software

Hardware

High Performance Computing Market, By Deployment Model:

On-premise

On Demand

High Performance Computing Market, By End User Vertical:

**Financial Services** 

Healthcare

Manufacturing IT &

Telecommunications



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#### Other

High Performance Computing Market, By Region:

North America

**United States** 

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia



South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global High Performance Computing Market.

Available Customizations:

Global High Performance Computing Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### **Company Information**

High Performance Computing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented b...



Detailed analysis and profiling of additional market players (up to five).



# Contents

- 1. Product Overview
- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.2.1.Markets Covered
- 1.2.2.Years Considered for Study
- 1.2.3.Key Market Segmentations

# 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1.Secondary Research
  - 2.5.2.Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1.The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
- 2.8.1.Data Triangulation & Validation

# **3. EXECUTIVE SUMMARY**

# 4. IMPACT OF COVID-19 ON GLOBAL HIGH PERFORMANCE COMPUTING MARKET

# 5. VOICE OF CUSTOMER

# 6. GLOBAL HIGH PERFORMANCE COMPUTING MARKET OVERVIEW

# 7. GLOBAL HIGH PERFORMANCE COMPUTING MARKET OUTLOOK

- 7.1. Market Size & Forecast
  - 7.1.1.By Value
- 7.2. Market Share & Forecast



7.2.1.By Components (hardware, Software)
7.2.2.By Deployment Model (On-Premises, On Demand)
7.2.3.By End-User Vertical (BFSI, Healthcare, Manufacturing, IT, and Telecommunications)
7.2.4.By Region
7.3. By Company (2023)
7.4. Market Map

#### 8. NORTH AMERICA HIGH PERFORMANCE COMPUTING MARKET OUTLOOK

- 8.1. Market Size & Forecast
- 8.1.1.By Value
- 8.2. Market Share & Forecast
- 8.2.1.By Components
- 8.2.2.By Deployment Model
- 8.2.3.By End-User Vertical
- 8.2.4.By Country
- 8.3. North America: Country Analysis
  - 8.3.1.United States High Performance Computing Market Outlook
    - 8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

- 8.3.1.2. Market Share & Forecast
- 8.3.1.2.1. By Components
- 8.3.1.2.2. By Deployment Model
- 8.3.1.2.3. By End-User Vertical
- 8.3.2. Canada High Performance Computing Market Outlook
  - 8.3.2.1. Market Size & Forecast
  - 8.3.2.1.1. By Value
  - 8.3.2.2. Market Share & Forecast
  - 8.3.2.2.1. By Components
  - 8.3.2.2.2. By Deployment Model
  - 8.3.2.2.3. By End-User Vertical
- 8.3.3.Mexico High Performance Computing Market Outlook
  - 8.3.3.1. Market Size & Forecast
    - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
  - 8.3.3.2.1. By Components
  - 8.3.3.2.2. By Deployment Model
  - 8.3.3.2.3. By End-User Vertical



#### 9. EUROPE HIGH PERFORMANCE COMPUTING MARKET OUTLOOK

- 9.1. Market Size & Forecast
- 9.1.1.By Value
- 9.2. Market Share & Forecast
  - 9.2.1.By Components
  - 9.2.2.By Deployment Model
  - 9.2.3.By End-User Vertical
  - 9.2.4.By Country
- 9.3. Europe: Country Analysis
  - 9.3.1.Germany High Performance Computing Market Outlook
  - 9.3.1.1. Market Size & Forecast
  - 9.3.1.1.1. By Value
  - 9.3.1.2. Market Share & Forecast
  - 9.3.1.2.1. By Components
  - 9.3.1.2.2. By Deployment Model
  - 9.3.1.2.3. By End-User Vertical
  - 9.3.2. France High Performance Computing Market Outlook
  - 9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

- 9.3.2.2. Market Share & Forecast
- 9.3.2.2.1. By Components
- 9.3.2.2.2. By Deployment Model
- 9.3.2.2.3. By End-User Vertical
- 9.3.3. United Kingdom High Performance Computing Market Outlook
  - 9.3.3.1. Market Size & Forecast
  - 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
- 9.3.3.2.1. By Components
- 9.3.3.2.2. By Deployment Model
- 9.3.3.2.3. By End-User Vertical
- 9.3.4. Italy High Performance Computing Market Outlook
- 9.3.4.1. Market Size & Forecast
  - 9.3.4.1.1. By Value
- 9.3.4.2. Market Share & Forecast
- 9.3.4.2.1. By Components
- 9.3.4.2.2. By Deployment Model
- 9.3.4.2.3. By End-User Vertical



- 9.3.5.Spain High Performance Computing Market Outlook
  - 9.3.5.1. Market Size & Forecast
  - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
  - 9.3.5.2.1. By Components
  - 9.3.5.2.2. By Deployment Model
  - 9.3.5.2.3. By End-User Vertical
- 9.3.6.Netherlands High Performance Computing Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
  - 9.3.6.2.1. By Components
  - 9.3.6.2.2. By Deployment Model
  - 9.3.6.2.3. By End-User Vertical
- 9.3.7.Belgium High Performance Computing Market Outlook
  - 9.3.7.1. Market Size & Forecast
  - 9.3.7.1.1. By Value
  - 9.3.7.2. Market Share & Forecast
  - 9.3.7.2.1. By Components
  - 9.3.7.2.2. By Deployment Model
  - 9.3.7.2.3. By End-User Vertical

#### **10. SOUTH AMERICA HIGH PERFORMANCE COMPUTING MARKET OUTLOOK**

- 10.1. Market Size & Forecast
- 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Components
  - 10.2.2. By Deployment Model
- 10.2.3. By End-User Vertical
- 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil High Performance Computing Market Outlook
    - 10.3.1.1. Market Size & Forecast
    - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
    - 10.3.1.2.1. By Components
    - 10.3.1.2.2. By Deployment Model
    - 10.3.1.2.3. By End-User Vertical



10.3.2. Colombia High Performance Computing Market Outlook

- 10.3.2.1. Market Size & Forecast
- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
- 10.3.2.2.1. By Components
- 10.3.2.2.2. By Deployment Model
- 10.3.2.2.3. By End-User Vertical
- 10.3.3. Argentina High Performance Computing Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
  - 10.3.3.2.1. By Components
  - 10.3.3.2.2. By Deployment Model
  - 10.3.3.2.3. By End-User Vertical
- 10.3.4. Chile High Performance Computing Market Outlook
  - 10.3.4.1. Market Size & Forecast
  - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
  - 10.3.4.2.1. By Components
  - 10.3.4.2.2. By Deployment Model
  - 10.3.4.2.3. By End-User Vertical

# 11. MIDDLE EAST & AFRICA HIGH PERFORMANCE COMPUTING MARKET OUTLOOK

- 11.1. Market Size & Forecast
- 11.1.1. By Value
- 11.2. Market Share & Forecast
- 11.2.1. By Components
- 11.2.2. By Deployment Model
- 11.2.3. By End-User Vertical
- 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
- 11.3.1. Saudi Arabia High Performance Computing Market Outlook
  - 11.3.1.1. Market Size & Forecast
  - 11.3.1.1.1. By Value
  - 11.3.1.2. Market Share & Forecast
  - 11.3.1.2.1. By Components
  - 11.3.1.2.2. By Deployment Model



- 11.3.1.2.3. By End-User Vertical
- 11.3.2. UAE High Performance Computing Market Outlook
- 11.3.2.1. Market Size & Forecast
  - 11.3.2.1.1. By Value
- 11.3.2.2. Market Share & Forecast
- 11.3.2.2.1. By Components
- 11.3.2.2.2. By Deployment Model
- 11.3.2.2.3. By End-User Vertical
- 11.3.3. South Africa High Performance Computing Market Outlook
- 11.3.3.1. Market Size & Forecast
- 11.3.3.1.1. By Value
- 11.3.3.2. Market Share & Forecast
- 11.3.3.2.1. By Components
- 11.3.3.2.2. By Deployment Model
- 11.3.3.2.3. By End-User Vertical
- 11.3.4. Turkey High Performance Computing Market Outlook
  - 11.3.4.1. Market Size & Forecast
  - 11.3.4.1.1. By Value
  - 11.3.4.2. Market Share & Forecast
  - 11.3.4.2.1. By Components
  - 11.3.4.2.2. By Deployment Model
  - 11.3.4.2.3. By End-User Vertical

#### 12. ASIA PACIFIC HIGH PERFORMANCE COMPUTING MARKET OUTLOOK

- 12.1. Market Size & Forecast
- 12.1.1. By Value
- 12.2. Market Share & Forecast
- 12.2.1. By Components
- 12.2.2. By Deployment Model
- 12.2.3. By End-User Vertical
- 12.2.4. By Country
- 12.3. Asia-Pacific: Country Analysis
- 12.3.1. China High Performance Computing Market Outlook
  - 12.3.1.1. Market Size & Forecast
  - 12.3.1.1.1. By Value
  - 12.3.1.2. Market Share & Forecast
  - 12.3.1.2.1. By Components
  - 12.3.1.2.2. By Deployment Model



#### 12.3.1.2.3. By End-User Vertical

- 12.3.2. India High Performance Computing Market Outlook
- 12.3.2.1. Market Size & Forecast
  - 12.3.2.1.1. By Value
- 12.3.2.2. Market Share & Forecast
- 12.3.2.2.1. By Components
- 12.3.2.2.2. By Deployment Model
- 12.3.2.2.3. By End-User Vertical
- 12.3.3. Japan High Performance Computing Market Outlook
- 12.3.3.1. Market Size & Forecast
- 12.3.3.1.1. By Value
- 12.3.3.2. Market Share & Forecast
- 12.3.3.2.1. By Components
- 12.3.3.2.2. By Deployment Model
- 12.3.3.2.3. By End-User Vertical
- 12.3.4. South Korea High Performance Computing Market Outlook
- 12.3.4.1. Market Size & Forecast
  - 12.3.4.1.1. By Value
- 12.3.4.2. Market Share & Forecast
- 12.3.4.2.1. By Components
- 12.3.4.2.2. By Deployment Model
- 12.3.4.2.3. By End-User Vertical
- 12.3.5. Australia High Performance Computing Market Outlook
- 12.3.5.1. Market Size & Forecast
- 12.3.5.1.1. By Value
- 12.3.5.2. Market Share & Forecast
- 12.3.5.2.1. By Components
- 12.3.5.2.2. By Deployment Model
- 12.3.5.2.3. By End-User Vertical
- 12.3.6. Thailand High Performance Computing Market Outlook
- 12.3.6.1. Market Size & Forecast
- 12.3.6.1.1. By Value
- 12.3.6.2. Market Share & Forecast
- 12.3.6.2.1. By Components
- 12.3.6.2.2. By Deployment Model
- 12.3.6.2.3. By End-User Vertical
- 12.3.7. Malaysia High Performance Computing Market Outlook
  - 12.3.7.1. Market Size & Forecast
    - 12.3.7.1.1. By Value



- 12.3.7.2. Market Share & Forecast 12.3.7.2.1. By Components
  - 12.3.7.2.2. By Deployment Model
  - 12.3.7.2.3. By End-User Vertical

# 13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

# 14. MARKET TRENDS AND DEVELOPMENTS

#### **15. COMPANY PROFILES**

- 15.1. Advanced Micro Devices Inc.
  - 15.1.1. Business Overview
  - 15.1.2. Key Revenue and Financials
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel/Key Contact Person
  - 15.1.5. Key Product/Services Offered

#### 15.2. NEC Corporation

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel/Key Contact Person
- 15.2.5. Key Product/Services Offered
- 15.3. Hewlett Packard Enterprise
- 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. Sugon Information Industry Co. Ltd
- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel/Key Contact Person
- 15.4.5. Key Product/Services Offered
- 15.5. Fujitsu Ltd





- 15.5.1. Business Overview
- 15.5.2. Key Revenue and Financials
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel/Key Contact Person
- 15.5.5. Key Product/Services Offered

#### 15.6. Intel Corporation

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel/Key Contact Person
- 15.6.5. Key Product/Services Offered
- 15.7. International Business Machines Corporation
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. Microsoft Corporation
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
  - 15.8.3. Recent Developments
  - 15.8.4. Key Personnel/Key Contact Person
  - 15.8.5. Key Product/Services Offered

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