

# AI Enhanced HPC Market Forecasts to 2030 – Global Analysis By Component (Hardware, Software and Services), Deployment (Cloud and On-premises), Organization Size, Computing Type, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global AI Enhanced HPC Market is accounted for \$2.95 billion in 2024 and is expected to reach \$5.64 billion by 2030 growing at a CAGR of 11.4% during the forecast period. The integration of artificial intelligence with conventional HPC systems to provide increased computational efficiency, scalability, and sophisticated problem-solving capabilities is known as AI-enhanced HPC. AI-enhanced HPC can greatly speed up data processing and analysis by utilizing AI algorithms, machine learning models, and neural networks. Moreover, this allows for more accurate and faster simulations, predictive modeling, and real-time decision-making. In fields like healthcare, engineering, finance, and climate research, where large datasets necessitate quick, intricate calculations, this combination of AI and HPC has a particularly significant impact.

According to the HPC-AI Leadership Organization (HALO), The HPC-AI market has taken off, with \$62 billion in worldwide data center spending in 2022, including a whopping \$17.9 billion from Hyperscale companies who drive machine learning and deep learning.

Market Dynamics:

Driver:

Demand for analytics in real time

In the fast-paced world, making decisions quickly is essential. Businesses can react to trends and events as they occur owing to AI-enhanced HPC, which processes enormous volumes of data quickly and efficiently to enable real-time analytics. AI is used extensively in industries such as autonomous vehicles to process sensor data in real-time, guaranteeing efficient and safe navigation. Instantaneous market data analysis by AI-powered HPC systems aids investors in making well-informed decisions. Additionally, real-time patient data monitoring can result in more rapid diagnoses and individualized treatments in industries like healthcare.

Restraint:

Complexity of maintenance and integration

The process of incorporating AI-enhanced HPC systems into pre-existing IT infrastructures can be difficult and time-consuming. In addition to complex algorithms, these systems call for specific hardware and software setups that might not work with older systems. The complexity of AI-enhanced HPC systems is further increased by the fact that they frequently need highly qualified staff to manage and maintain them. Ensuring smooth integration and operation across multiple departments and functions can present challenges for organizations. Furthermore, deployment and maintenance of these systems may also be hampered by a lack of technical expertise, especially in AI and HPC technologies.

Opportunity:

Developments in sustainability and climate modeling

AI-enhanced HPC is essential for tackling global issues like sustainability and climate change. AI-enhanced HPC systems are assisting scientists in better understanding weather patterns, forecasting climate shifts, and evaluating the effects of climate change on ecosystems by simulating climate models and analyzing enormous volumes of environmental data. Designing renewable energy technologies, optimizing energy distribution, and evaluating environmental policies are all being done with HPC-driven simulations. Moreover, businesses engaged in environmental research, clean energy, and sustainability innovations have a plethora of opportunities as governments and organizations invest more in AI and HPC to meet sustainability goals.

Threat:

## Restricted access to skilled talent

One significant issue that might impede the expansion of the AI-enhanced HPC market is the lack of qualified experts in AI, HPC, data science, and machine learning. Highly specialized knowledge is needed for AI and HPC, especially for managing massive amounts of data, creating algorithms, training intricate models, and maximizing computational power. A talent gap is being caused by the growing need for experts in these domains, which not only drives up labor expenses but also restricts an organization's capacity to implement and maintain AI-enhanced HPC systems. Additionally, the shortage is being made worse by universities and other educational institutions' inability to meet the demand for pertinent training programs and courses.

## Covid-19 Impact:

The COVID-19 pandemic significantly accelerated the demand for AI-enhanced High-Performance Computing (HPC) as industries and research institutions sought advanced computational power to tackle the global health crisis. AI-driven simulations and predictive analytics have increased in popularity due to the need for quick vaccine development, epidemiological modeling, and healthcare data analysis. This has increased awareness of HPC systems' capabilities. Furthermore, reliance on cloud-based AI-enhanced HPC solutions grew as a result of the shift to remote work and digital transformation across industries. The pandemic pushed for a quicker adoption of cloud-based HPC and increased investments in AI research, while also highlighting the crucial role AI plays in solving pressing issues and the market's reliance on robust infrastructure.

The Hardware segment is expected to be the largest during the forecast period

The Hardware segment is expected to account for the largest market share during the forecast period. The main cause of this is the rising demand for sophisticated hardware elements like specialized processors that are tailored for AI workloads, GPUs, and TPUs. These hardware advancements are essential for efficiently processing large datasets, deep learning models, and intricate AI algorithms. The demand for high-performance hardware that can manage computationally demanding tasks is fueling the growth of this market as AI applications continue to expand, particularly in industries like healthcare, automotive, and financial services. Moreover, the demand in the hardware industry is also being further increased by developments in hardware architecture and the incorporation of AI-specific capabilities in processors.

The Cloud segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Cloud segment is predicted to witness the highest growth rate. The growing need for scalable, adaptable, and reasonably priced computing power—all of which cloud-based solutions offer—is what is driving this expansion. Cloud platforms support the computationally demanding requirements of AI workloads by giving businesses on-demand access to high-performance computing resources. The cloud is a popular option for businesses wishing to combine AI with high-performance computing because it can quickly scale up and down in response to demands without requiring the upfront capital investment associated with on-premises infrastructure.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The region's dominance can be ascribed to the adoption of state-of-the-art high-performance computing solutions across a range of industries, the substantial investments made in AI research and development, and the strong presence of prominent technology companies. North America is at the forefront of AI-driven innovations owing to its well-established IT infrastructure, which uses HPC to handle complex computational tasks in industries like manufacturing, healthcare, finance, and automotive.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. Rapid technological advancements and digital transformation in nations like China, India, Japan, and South Korea are driving this growth. The APAC region is becoming a major player in the HPC market as a result of rising investments in AI, cloud computing, and supercomputing infrastructure. Moreover, the region is adopting AI-enhanced HPC solutions more quickly due to the growing need for AI applications in a variety of industries, such as manufacturing, healthcare, and automotive, as well as government programs to encourage technological innovation.

Key players in the market

Some of the key players in AI Enhanced HPC market include Amazon Web Services, Inc., Fujitsu Limited, NEC Corporation, Cisco Systems, Inc., Google LLC, Arm Limited (SoftBank Group Corp.), Hewlett Packard Enterprise Development LP, Dell

Technologies Inc., Samsung Electronics Co., Ltd., IBM Corporation, Advanced Micro Devices Inc. (AMD), Lenovo Group Limited, Huawei Technologies Co., Ltd., Intel Corporation and Microsoft Corporation.

#### Key Developments:

In February 2025, Amazon Web Services (AWS) has entered into a new Whole-of-Government agreement with the Australian Government's Digital Transformation Agency (DTA) to offer access to cloud and emerging technologies. The agreement, initially set for a term of three years, builds on a previous arrangement signed in 2019, which aided in streamlining access to AWS services for all levels of government including local councils and public sector entities.

In September 2024, Fujitsu Limited and Stellar Science Foundation have entered into a partnership focused on discovering and supporting the next generation of scientific researchers and fostering the creation of cutting-edge research topics. Through this partnership, Fujitsu will contribute funds to SS-F to support the creation of a unique scientific research ecosystem that promotes collaboration and interaction among researchers.

In August 2024, NEC Corporation and Spectro Cloud have signed a strategic agreement to advance cloud-native innovation for organisations. With the exponential growth of modern, containerised applications inclusive of AI/ML workloads, real-time analytics and databases with various use cases across multiple industries, organisations need enterprise-grade capabilities to run these applications efficiently and securely.

#### Components Covered:

Hardware

Software

Services

#### Deployments Covered:

Cloud

On-premises

Organization Sizes Covered:

Small & Medium Enterprises (SMEs)

Large Enterprises

Computing Types Covered:

Parallel Computing

Distributed Computing

Exascale Computing

End Users Covered:

Energy and Utilities

Industrial

Manufacturing

Pharmaceuticals

Analytics for Financial Services

Visualization and Simulation

Biological and Medical

Other End Users

## Regions Covered:

### North America

US

Canada

Mexico

### Europe

Germany

UK

Italy

France

Spain

Rest of Europe

### Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

## Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free

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customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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