

Report Information

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Cloud High Performance Computing Market Research Report - Forecast to 2030

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Description:

Cloud High-Performance Computing Market Overview

Cloud High-Performance Computing Market Size was valued at USD 5.5 billion in 2022. The Cloud High-Performance Computing market is projected to grow from USD 6.4174 Billion in 2023 to USD 16.19338 billion by 2030, exhibiting compound annual growth rate (CAGR) of 16.68% during the forecast period (2023 - 2030). Cloud High-Performance Computing Market solutions to process large volumes of data with speed and accuracy and the increasing preference for high-performance hybrid computing (HPC) solutions are the key market drivers enhancing market growth.

Cloud High-Performance Computing Market Overview

Source Secondary Research, Primary Research, MRFR Database, and Analyst Review

Cloud High-Performance Computing Market Trends

Hybrid Cloud High-Performance Computing solutions driving the market growth

The growing demand for cloud high-performance computing solutions and increasing technological advancements, organizations today focus on hybrid cloud high-performance Computing solutions. IT teams are fiercely working to balance cloud and on-premises CHPC solutions. Enterprises are scaling out on-premises CHPC resources as needed. Simultaneously, cloud service providers (CSPs) have also started to offer turn-key cloud high-performance computing market solution environments tailored to enterprises' specific workload needs. A hybrid CHPC solution results in better efficiencies. Apart from this, it also helps resolve security and privacy concerns and lowers maintenance costs. Therefore, the increasing focus on hybrid cloud high-performance computing solutions is expected to provide tremendous opportunities for the growth of the cloud high-performance computing market. The capacity of HPC systems to process huge amounts of data at high speeds encourages academic institutions, defense agencies, energy companies, government agencies, and the utility sector to adopt HPC systems, which also helps expand the high-performance computing market CAGR.

Additionally, the growing demand for high-efficiency computing, advancements in virtualization, and continued diversification and expansion of the IT industry. Cloud high-performance computing market is the ability of cloud high-performance computing market solutions to process large volumes of data quickly and accurately. The industry verticals function as prominent market segments where the market applications are encountering slow and inefficient data processing issues, including areas like finance, medical, research, seismic exploration, government, and others like defense. The quick-paced nature of the financial market, which is additionally volatile, makes vitality crucial so that the derivative valuations are processed faster and more accurately. In the medical field, the prominent emergence of market applications such as computed tomography (CT) scanning and magnetic resonance imaging (MRI) require quick, accurate results from processing complex algorithms. CHPC helps them considerably reduce computing time and simplifies the CT and MRI data processes quickly and accurately are the main factor driving the cloud high-performance computing market revenue.

Cloud High-Performance Computing Market Segment Insights

Cloud High-Performance Computing Components Insights

Based on components, the Cloud High-Performance Computing Market segmentation includes solutions, servers, storage, networking devices, software, services, design and consulting, integration and deployment, support and maintenance, and management. The servers segment held the largest market share in 2022 and is anticipated to grow significantly during the forecast period. The growth can be attributed to the increase in the number of data centers, as various small and mid-size enterprises (SMEs). Furthermore, many businesses are in the process of investing in on-premises and colocation infrastructure to support the growing demand for public cloud services.

The services segment accounted for over 9.0% of the market share in 2022 and is expected to grow at a CAGR exceeding 5.0% from 2023 to 2030. HPC vendors provide various services, including maintenance, support, and management. Support is especially required during installing HPC systems and their initial use. On the other hand, maintenance services involve upgrading existing systems and troubleshooting. Owing to this, the market size of the services segment is expected to surpass USD 7,000 million over the forecast period.

April 2022 CGG is significantly expanding its high-performance computing (HPC) capacity and accompanying service offerings to enable continuous distinction in its core business and speed up the development of new operations. The business has acquired a lease to construct a European HPC hub in Southeast England, which would go live in H1 2023 and expand its cloud HPC capacity by up to 100 petaflops.

February 2022 Ansys established a strategic partnership with Amazon Web Services, Inc. The partnership would allow Ansys products to be deployed on AWS, making simulation workloads more user-friendly while also providing scalability and flexibility with simple access to software and storage solutions from anywhere via a web browser, and the collaboration extends cloud-based high-performance computing (HPC) to promote electronic design automation (EDA), computer-aided engineering (CAE), and simulation solutions.

Cloud High-Performance Computing Based on Deployment Insights

Based on deployment, the Cloud High-Performance Computing Market segmentation includes cloud, on-premises. The on-premise segment held the largest market share in 2022 and is anticipated to experience significant growth during the forecast period. While governments remain keen on securing sensitive data related to national security and citizens' data, enterprises are concerned about protecting their respective organizational data. As a result, an on-premise infrastructure is still preferred over a cloud-based infrastructure. The cloud segment is expected to grow at the highest CAGR of over 8.5% during the forecast period. Cloud deployment allows organizations to reduce operational costs due to the zero requirements of additional in-house computing resources. Other advantages, such as increased efficiency and cost-effectiveness, are expected to fuel the cloud segment's growth.

Figure1 Cloud High-Performance Computing Market, Based on Deployment, 2022 & 2030 (USD billion)

Cloud High-Performance Computing Market, Based on Deployment, 2022 & 2030

Source Secondary Research, Primary Research, MRFR Database, and Analyst Review

Cloud High-Performance Computing Organization Size Insights

Based on organization size, the global cloud high-performance computing industry includes small and medium-sized enterprises (SMEs), large enterprises. The Large Enterprises segment held the largest market share in 2022 and is anticipated to experience significant growth during the forecast period. However, The potential users in many SMEs need more awareness about the benefits of cloud high-performance computing and more money to set up such systems. Due to the high investment costs, SMEs in many developing nations still need to be convinced about adopting cloud high-performance computing. Many need to know the advantages of cloud high-performance computing, such as better performance and customizable delivery. These enterprises also need more technical expertise to establish and run a cloud high-performance computing system. However, cloud computing can boost the use of cloud high-performance computing among SMEs, as it will considerably cut down their costs.

April 2021 Cloud High-Performance Computing Market was awarded USD 40 Million SGD to build a new supercomputer for the National Supercomputing Centre (NSCC) Singapore, the national high-performance computing (CLOUD HIGH-PERFORMANCE COMPUTING) resource center dedicated to supporting science and engineering computing needs for academic, research, and industry communities.

April 2021 NVIDIA launched its first data center CPU. This Arm-based processor delivers 10x the performance of the current fastest servers on the most complex AI and Cloud High-Performance Computing Market workloads.

Cloud High-Performance Computing Application Areas Insights

Based on application, the Cloud High-Performance Computing Market data includes Government and Defense, BFSI, Education and Research, manufacturing, Media and entertainment, Healthcare and Life Sciences, Energy and Utilities, and Earth Sciences. The Manufacturing segment held the largest market share in 2022 and is anticipated to experience significant growth during the forecast period. Manufacturing processes tend to be computation-intensive and time-consuming. Hence, incumbents of the manufacturing industry often adopt simulation and CAD software along with HPC systems. HPC systems can be particularly useful for computational fluid dynamics, structural mechanics, and electromagnetic in the manufacturing industry. These attributes enhance performance, improve computational speeds, and ensure rapid access to data. However, the government & defense segment is predicted to grow at a CAGR exceeding 9.0% during the forecast period. While defense agencies are anticipated to aggressively adopt cutting-edge IT solutions to improve computing efficiency, government agencies are expected to adopt HPC systems to support digitization initiatives and contribute to economic development.

Cloud High-Performance Computing Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American Cloud High-Performance Computing market area will dominate this market, owing to an increase in the number of Performance Computing Market solutions to process large volumes of data with speed and accuracy and the increasing preference for high-performance hybrid computing (HPC) solutions will boost the market growth in this Region.

Further, the major countries studied in the market report are The U.S., Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure2 CLOUD HIGH PERFORMANCE COMPUTING MARKET SHARE BY REGION 2022 (%) **CLOUD HIGH PERFORMANCE COMPUTING MARKET SHARE BY REGION 2022**

Source Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe's Cloud High-Performance Computing market accounts for the second-largest market share due to the accuracy and the increasing preference for high-performance hybrid computing (HPC) solutions. Further, the German Cloud High-Performance Computing market held the largest market share, and the UK Cloud High-Performance Computing market was the fastest-growing market in the European Region.

The Asia-Pacific Cloud High-Performance Computing Market is expected to grow at the fastest CAGR from 2022 to 2030. This is due to the growing adoption of HPC systems for scientific research and weather forecasting. Moreover, China's Cloud High-Performance Computing market held the largest market share, and the Indian Cloud High-Performance Computing market was the fastest-growing market in the Asia-Pacific region.

Cloud High-Performance Computing Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the Cloud High-Performance Computing market grow even more. Market participants are also undertaking various strategic activities to expand their global footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. The Cloud High-Performance Computing industry must offer cost-effective items to expand and survive in a more competitive and rising market climate.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturers use in the global Cloud High-Performance Computing industry to benefit clients and increase the market sector. In recent years, the Cloud High-Performance Computing industry has offered healthcare some of the most significant advantages. Major players in the Cloud High-Performance Computing market, including AMD (US), Dassault Systems (France), Intel (US), NVIDIA (US), AWS (US), HPE (US), Sugon (China), IBM (US) Atos (US) Fujitsu (Japan) Cisco (US) Dell (US) Lenovo (China), and others, are attempting to increase market demand by investing in research and development operations.

NVIDIA has been a pioneer in accelerated computing. The company's invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined computer graphics, and ignited the era of modernity, fueling the creation of the metaverse. NVIDIA is now a full-stack computing company with data-center-scale offerings reshaping the industry. NVIDIA launched its first data center CPU. This Arm-based processor delivers 10x the performance of the current fastest servers on the most complex AI and Cloud High-Performance Computing Market workloads.

Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys. Ansys specializes in Design Optimization, Finite Element Analysis (FEA, FEM), Computational Fluid Dynamics (CFD), Electromagnetics, Explicit Dynamics, Consulting, Grid Generation, Meshing, Multi-body Dynamics, Multiphysics, FSI, Virtual Prototyping, Structural Analysis, Engineering Simulation. Ansys established a strategic partnership with Amazon Web Services, Inc. The partnership would allow Ansys products to be deployed on AWS, making simulation workloads more user-friendly while also providing scalability and flexibility with simple access to software and storage solutions from anywhere via a web browser, and the collaboration extends cloud-based high-performance computing (HPC) to promote electronic design automation (EDA), computer-aided engineering (CAE), and simulation solutions.

Key Companies in the weight loss products market include

- AMD (US)
- Intel (US)
- NVIDIA (US)
- Dassault Systems (France)
- AWS (US)

- HPE (US)
- Sugon (China)
- IBM (US)
- Atos (US)
- Fujitsu (Japan)
- Cisco (US)
- Dell (US)
- Lenovo (China)
- Brunswick Corporation

Cloud High-Performance Computing Industry Developments

October 2022- Subaru has begun using Oracle Cloud Infrastructure for high performance computing. According to a statement from Oracle, Subaru Corporation has switched its simulation & 3D visualization workloads, which are used to enhance driving and collision safety performance, to Oracle Cloud Infrastructure (OCI). Subaru was able to decrease computing timeframes by about 20% using High Performance Computing or (HPC) on OCI, which helped it to optimize its development cycle, gain considerable savings, and lower operational expenses.

Subaru is making changes to increase design and development's effectiveness, adaptability, and agility. In order to accomplish this, Subaru realized it needed to boost the resources supporting their computationally demanding HPC workloads, which run huge and intricate simulations to enhance the collision performance and safety of its vehicles. Subaru chose OCI to migrate its massive HPC workloads of about tens of thousands of cores from an on-premises environment to OCI after seeing how cloud technology in fact is being utilized in the automobile industry to deliver HPC resources to support computer assisted engineering (CAE) simulations.

Their mission always has been to be a completely reliable partner for their clients and to offer products that are appealing and distinctive and deliver joy and peace of mind. Companies depend on technology to support ongoing innovation and improvement so they can give their customers the greatest experience possible. They place a lot of emphasis on being able to carry out the numerous simulations fast in order to increase accident safety and driving performance. To increase the efficiency of collision simulation computations and to save expenses, they chose OCI HPC.

Subaru used Oracle Cloud Lift Services as well as part of its first verification process in order to support its testimony of concept and assist with cloud migration challenges in its testing environment for production machines. Moreover, Oracle Cloud Lift Services gave Subaru and Argo Graphics the required OCI HPC skills training.

Cloud High-Performance Computing Market Segmentation

Cloud High-Performance Computing Components Outlook

- Solutions
- Servers
- Storage
- Networking Devices
- Software
- Services
- Design and Consulting
- Integration and Deployment
- Support and Maintenance
- Management

Cloud High-Performance Computing Deployment Outlook

- Cloud
- On-premises

Cloud High-Performance Computing Organization Size Outlook

- Small and Medium-sized Enterprises (SMEs)
- Large Enterprises

Cloud High-Performance Computing Application Areas Outlook

- Government and Defense
- BFSI
- Education and Research
- Manufacturing
- Media and entertainment
- Healthcare and Life Sciences
- Energy and Utilities
- Earth Sciences

Cloud High-Performance Computing Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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