

Global High Performance Computing Market: Size, Trend, Share, Opportunity Analysis & Forecast, 2014–2025

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Abstracts

High performance is the use of super computers and parallel processing techniques for solving complex computational problems. It uses advanced techniques such as computer modeling, simulation and analysis. It has wide applications in various fields such as weather forecasting, molecular modeling, physical simulations, and quantum mechanics. Global high performance computing market is expected to grow at a CAGR of around 5% from 2017 to 2025.

Based on components, market is segmented into servers, storage, networking devices and software. Various services included in the report are consulting & design, integration & deployment, and training & outsourcing. By deployment model, it is divided into on-premises and cloud. Based on server price band, it is classified into USD 250,000-500,000 and above, and USD 249,999-100,000 and below. Various industry verticals included in the report are industrial manufacturing, life science, energy, chemical, government & defense, academic institutions, BFSI, media, gaming, transportation & logistics, retail, earth science, and others. Geographical breakdown and deep analysis of each of the aforesaid segments is included for North America, Europe, Asia-Pacific, and LAMEA.

MARKET DYNAMICS:

Drivers:

Higher processing power and faster storage solutions

Introduction of new technologies and solutions for embedded processors

Restraints:

High initial investment

MARKET PLAYERS:

The top players in the global high performance computing market include IBM Corporation, HP Development Company, LP., Intel Corporation, Microsoft Corporation, Cisco Systems, Inc., Advance Micro Devices, Inc., Bull Atos Technologies, Dell Inc., and Oracle Corporation.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Components Type

Servers

Storage

Networking Devices

Software

By Service

Consulting & Design

Integration & Deployment

Training & Outsourcing

By Deployment type

On-Premises

Cloud

By Server Price Band

USD 250,000-500,000 and above

USD 249,999-100,000 and below

By Industry Vertical

Industrial manufacturing

Life science

Energy

Chemical

Government and defense

Academic institutions

Banking, Financial Services, and Insurance (BFSI)

Media

Gaming

Transportation & logistics

Retail

Earth Science

Others

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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