

High Performance Computing (HPC) Market Size, Share, and Analysis, By Component (Servers, Storage, Networking Devices, Software, Services, Cloud, Others), By Deployment (On-Premise, Cloud), By End Use Industry (Banking, Financial Services, and Insurance [BFSI], Gaming, Media & Entertainment, Retail, Transportation, Government & Defense, Education & Research, Manufacturing, Healthcare & Bioscience, Others) and Regional Forecasts, 2022-2032

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Abstracts

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PRODUCT OVERVIEW

High Performance Computing (HPC) Market size was USD 36.16 billion in 2021 and projected to grow from USD 41.5 billion in 2023 to USD 78.2 billion by 2032, exhibiting a CAGR of 7.2% during the forecast period.

High Performance Computing refers to the process of combining computing power in a

way that it provides significantly higher performance as compared to the one from workstation or regular computer to solve bigger problems in engineering, science, or business. HPC is the foundation for industrial, scientific, and societal improvements. HPC systems usually perform at greater speeds (above one million times quicker) contrasted with the fastest laptop, desktop, or server systems.

MARKET HIGHLIGHTS

High Performance Computing (HPC) Market is expected to reach USD 78.2 billion, growing at a CAGR of 7.2% during the forecast period owing to the rising demand for super-efficiency computing, constant diversification, improvements in virtualization, and growth of the IT industry. Also, growing inclination of consumers for hybrid high-performance computing solutions are projected to boost the growth of High Performance Computing (HPC) Market over the forecast period.

High Performance Computing (HPC) Market Segments:

Component

Servers

Storage

Networking Devices

Software

Services

Cloud

Others

Deployment

On-Premise

Cloud

End Use Industry

Banking, Financial Services, and Insurance (BFSI)

Gaming

Media & Entertainment

Retail

Transportation

Government & Defense

Education & Research

Manufacturing

Healthcare & Bioscience

Others

MARKET DYNAMICS

Growth Drivers

Expanding Use of High Performance Computing Technology is Expected to Boost the Market Growth

Growing Popularity of Cloud Computing and Efficiency offered by HPC are Expected to Boost the Market Growth

Restraint

Lack of Expertise and Cyber Security Concerns to Restrain the Market Growth

Key Players

IBM

Microsoft

Huawei Technologies

Oracle

Dell Inc.

Amazon Web Services Inc.

Intel Corporation

Fujitsu

Atos

Cisco Systems Inc.

Lenovo Group Ltd.

Hewlett Packard Enterprise

NVIDIA Corporation

Advanced Micro Devices Inc

Red Hat Inc.

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth,

High Performance Computing (HPC) Market Size, Share, and Analysis, By Component (Servers, Storage, Networking...

CAG.R – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

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