High-Performance Computing Market: An In-Depth Look at the Current State and Future Outlook

Increasing emphasis on hybrid HPC systems is one of the key factors driving market revenue growth

VANCOUVER, BC, CANADA, April 10, 2023 /EINPresswire.com/ -- The global High Performance Computing (HPC) market size reached USD 42.00 Billion in 2021 and is expected to register a revenue CAGR of 6.2% during the forecast period, according to latest analysis by Emergen Research.

Emergen Research Logo

Increasing emphasis on hybrid HPC systems is one of the key factors driving market revenue growth. Enterprises are emphasizing hybrid HPC solutions due to increasing need for HPC solutions and technological advancements. Information Technology (IT) teams are working hard to find a balance between cloud and on-premises HPC solutions. On-premises HPC resources are being scaled out as needed by enterprises, and simultaneously, Cloud Service Providers (CSPs) are offering turn-key HPC solution settings geared to organizations' unique workload demands. A hybrid HPC solution improves efficiency, and also addresses security and privacy concerns while lowering maintenance costs. Therefore, growing emphasis on hybrid HPC solutions is expected to provide significant opportunities for revenue growth of the global HPC market.

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> Market Size – USD 42.00 Billion in 2021, Market Growth – at a CAGR of 6.2%, Market Trend – Increasing demand for commercial process simplification
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> *Emergen Research*

The latest research report is dubbed as the first document encompassing the latest information about the High Performance Computing (HPC) market that has been gravely affected by the COVID-19 pandemic. The global health crisis poses significant threats to the future growth of the High

Performance Computing (HPC) industry. The report assesses the profound changes in this business setting caused by the outbreak and considers the prominent market aspects that have been severely disrupted by the pandemic. The report thus expounds on the rapidly changing market scenario in this COVID-19 era, which aims to help businesses involved in this sector overcome the pandemic's gripping effects and formulate new growth strategies to boost the COVID-19 preparedness.

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Major Players/Manufacturers profiled in the report are:

Advanced Micro Devices, Inc., Intel Corporation, Dell, Inc., Nvidia Corporation, Lenovo Group Limited, Cisco Systems Inc., International Business Machines Corporation, Hewlett Packard Enterprise, Atos SE, and Amazon Web Services

Some Key Highlights From the Report

On-premises segment revenue is expected to register a rapid CAGR during the forecast period, which can be attributed to increasing emphasis placed by governments of various countries on safeguarding sensitive national defense data.

Healthcare segment is expected to lead in terms of revenue contribution to the global market over the forecast period. HPC technologies provide the computing capacity required for applications and aid in addressing difficulties in healthcare and life sciences industries, which is expected to increase their adoption further in the healthcare industry and thus, drive revenue growth of this segment.

Asia-Pacific market is expected to register a considerably rapid revenue growth rate in the global HPC market over the forecast period, owing to increasing use of high-performance computing equipment for scientific research and weather forecasting.

In March 2022, Excelero, a Tel Aviv-based provider of high-performance software-defined storage, joined Nvidia Corporation. The company's engineering team, which includes seasoned co-founders with decades of experience in HPC, storage, and networking, has extensive expertise in block storage used by major organizations in storage-area networks.

Solution segment is expected to lead in terms of revenue contribution to the global market over the forecast period. Increasing adoption of high-performance computing across various industries is expected to drive revenue growth of this segment.

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Global High-Performance Computing (HPC) Market Report - Segmental Analysis:

Component Outlook (Revenue, USD Billion; 2019–2030)

Solution

Servers

Storage

Networking Device

Software

Services

Design & Consulting

Integration & Deployment

Deployment Outlook (Revenue, USD Billion; 2019–2030)

Cloud-Based

On-Premises

Application Outlook (Revenue, USD Billion; 2019–2030)

Media & Entertainment

Government & Defense

Education & Research

Healthcare

Manufacturing

Gaming

Transportation

Retail

Others

Key Geographies Profiled in the Report:

North America(the U.S., Mexico, and Canada)

Asia Pacific(China, Japan, India, and Rest of Asia Pacific)

Europe(the U.K., France, Germany, and Rest of Europe)

Latin America(Brazil and Rest of Latin America)

Middle East & Africa(GCC Countries and Rest of Middle East & Africa)

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Key Benefits For Stakeholders:

The report provides an extensive analysis of the current and future trends in the global minimally invasive surgical systems market to elucidate the imminent investment pockets.

A detailed analysis of the factors that drive and restrict the growth of the minimally invasive surgical systems market is provided.

Extensive analysis of key segments demonstrates the types of energy devices, access equipment, and visualization & documentation systems used in minimally invasive surgeries.

A comprehensive analysis of the geographical landscape provides detailed information about various regions across North America, Europe, Asia Pacific, Latin America, and Middle East & Africa.

The report offers a competitive landscape of the minimally invasive surgical systems market to assist players to gain insights into the competition scenario. Key companies operating in the market are profiled to provide valuable insights.

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