

HPC User Forum

A HYPERION RESEARCH SPECIAL INTELLIGENCE SERVICE

In 2000, Hyperion Research/IDC, in close partnership with users and vendors in the worldwide high-performance computing (HPC) community, created the HPC User Forum, a unique market intelligence service that provides 20-25 original research reports per year and features information-packed user meetings within and outside of the U.S. each year.

The meeting agendas are set by a volunteer steering committee representing major user organizations in government, industry and academia. The HPC User Forum is an extension of Hyperion's/IDC's long-standing commitment to the global HPC community.

Markets and Topics Analyzed

- Future architectural directions and choices
- Success stories, best practices, requirements
- New technologies and solutions
- Future product directions in hardware, software, storage, networking and services
- Performance analysis and evaluations
- Emerging high-growth markets
- Major and emerging trends in processors, big data (HPDA-AI), ML, DL, cloud computing, and more
- Collaborating and networking with peers
- Application and workflow requirements
- Presentation of user achievements

Core Research

- User requirements for future HPC/HPDA solutions
- HPC User Forum detailed meeting notes
- Processor, coprocessor, accelerator options
- Storage, interconnects and data management
- OS, system software and application trends
- Exascale challenges and opportunities
- Big data (HPDA) and cloud computing
- Machine/deep learning, cognitive, AI, IoT

Key Questions Addressed

- What are the best choices for future technologies?
- What are the best practices for HPC centers?
- What's the future of the HPC market?
- Where will HPC technology be in five years?
- What role will HPC play in big data markets?
- How can users and vendors collaborate better?
- Where are the next high-growth opportunities?
- What new requirements should vendors address?

Companies Analyzed

The HPC User Forum closely tracks worldwide HPC market spending and revenues, user practices and requirements, and companies including these and others:

3M, Acceleware, Adaptive Computing, Altair, Amazon, AMD, ANSYS, ARM, Atos Bull, Autodesk, Cavium, Cisco, Clustercorp, ClusterVision, Cray, Data Vortex, DDN, Dell EMC, DRC, D-Wave, Emcien, ETP4HPC, Eurotech, EXTOLL, Facebook, Fujitsu, Hitachi, HPE, Huawei, IBM, Inspur, Intel, Lenovo, LexisNexis, Linux, Lockheed Martin, MathWorks, Mellanox, Microsoft, Mitronics, Nallatech, NEC, NetApp, Nimbis Services, Nimbix, Northrup Grumman, Numascale, NVIDIA, Panasas, Penguin Computing, PGI, Qualcomm, RAID, Red Hat, Rescale, Rogue Wave, RSC, R-Systems, SAS, ScaleMP, SiXis, Spansion, Spectra Logic, Sugon (Dawning), Supermicro, Techila, Tech-X, Teratec, Toshiba, TotalView, T-Platforms, T-Systems, Unisys, Univa, VMware, Voltaire, Wipro, and Xilinx