



## HPC User Site Census: System Suppliers

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### EXECUTIVE SUMMARY

The *HPC User Site Census: System Suppliers* report, part of Intersect360 Research's Site Census series, provides a detailed examination of the server systems installed at a sample of High Performance Computing (HPC) user sites. We surveyed a broad range of users about their current computer system installations, storage systems, networks, middleware, and the applications software supporting these computer installations.

The goal in this analysis of HPC system suppliers is to examine the installations by supplier and to examine supplier penetration by sector and by region within the HPC user community.

Key findings of this Site Census survey include the following:

- HPE, Dell EMC, and Lenovo were the top of 37 named vendors. The top five named vendors (also including Cray and Supermicro) captured 54.6% of the systems market.
- Bolstered by its acquisition of SGI, HPE moved ahead of Dell EMC into the number one position for systems installed (20.7%) and total nodes installed (20.5%). HPE was also one of the top two suppliers in every node group.
- Dell EMC had a significantly higher share (16.8%) at academic sites while HPE had the highest share (35.8%) of installations at commercial sites. For the government sector, HPE had the highest share for named suppliers with 13.6%.
- In North America, Dell EMC had the highest share of systems installed, while HPE had the most systems reported in EMEA and in Asia-Pacific for named suppliers.

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## COMPANIES MENTIONED IN THIS REPORT

Companies mentioned in this report, in alphabetical order, include:

- Advanced Clustering Technologies
- Amazon Web Services
- Atipa
- Atos
- Boston
- Cirrascale
- Citrix
- ClusterVision
- Colfax
- Cray
- Creative Consultants
- Dell EMC
- E4 Computer Engineering
- Exxact
- Fujitsu
- GenOuest
- Google
- HPE
- Huawei
- IBM
- ICC
- Inspur
- Intel
- Lenovo
- Megware
- Micron
- Microway Technology
- NEC
- NVIDIA
- Oracle
- Penguin Computing
- Proline
- RSC
- Seneca
- Silicon Mechanics
- SuperMicro
- Transtec
- Xenon systems

## TECHNOLOGIES COVERED IN THIS REPORT

- HPC system elements
  - Systems, clusters
    - HPC clusters
    - Supercomputers
    - SMPs
    - Vector-based systems
    - MPP systems
  - Server technologies
    - Rack-mounted servers
    - Blades
  - Memory configurations
- Processor elements
  - System processors
    - x86 processors
    - RISC processors
    - ARM processors
    - Vector processors
    - Other processors
  - Accelerators and co-processors
    - GPU computing
    - FPGAs
    - Other accelerators or co-processors
    - Hybrid (accelerated) system processors (e.g., Intel MIC, AMD Fusion)
- Cloud computing, grid computing, utility computing
  - Public cloud technologies
  - Private cloud technologies