

HPC User Site Census: Storage Suppliers

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May 2017

EXECUTIVE SUMMARY

This report, part of our HPC User Site Census series, provides an examination of the suppliers of storage systems installed in a sample of High Performance Computing (HPC) user sites. Intersect360 Research surveyed a broad range of users about their current computer system installations, storage systems, networks, middleware, and supporting software. The resulting data is presented in a series of reports throughout the year, each describing different aspects of the HPC end-user landscape.

Key findings of the survey include the following:

- Storage capacity continues its onward and upward trend. Aggregate site-level storage capacity reported at 391 sites reached 2.4 exabytes, an increase of 24% from our 2015 report.
- Installations of petabyte or larger storage systems are increasing and account for 37% of all storage systems reported. The top three most frequently reported capacities were two petabytes, one petabyte, and 100 terabytes.
- DataDirect Networks (DDN) had the largest share with 14.8% of survey responses, followed by Dell EMC with 12.7% and IBM with 11%. All other suppliers had less than 10% share of reported storage systems. No vendor dominated every sector, region, or capacity.
- About 4.7% of the reported storage systems were identified as cloud-based systems, including both public and private cloud. Amazon continues to be the primary supplier of cloud-based storage services to the HPC community. For commercial sites, Amazon was the fifth most mentioned supplier.

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COMPANIES MENTIONED IN THIS REPORT

Companies mentioned in this report include:

Ace Computers	IBM
Advanced HPC	Infortrend
Aeon Computing	Intel
Amazon Web Services	International Computer Concepts
Apple	Lenovo
Aspen Systems	NEC
Atipa	NetApp
Atos	Open-E
Auristor	Oracle
Chenbro	OrangeFS
Cohesity	Panasas
Colfax	Penguin
Cray	Powerleader
DataDirect Networks	Promise Technology
DataOn	Qsan
Dell EMC	Quanta
Drobo	Quantum
Dropbox	RAID Inc
E4 Engineering	Samsung
Equallogic	Scherm
EUROSTORE	Seagate
Fraunhofer	SGI
Fujitsu	Silicon Mechanics
GenOquest	Spectrallogic
Google	Supermicro
Hitachi Data Systems	Synology
HP Enterprise	Terascale
Huawei	Transtec
	Western Digital

TECHNOLOGIES COVERED IN THIS REPORT

- Storage elements
 - Storage systems
 - Network-attached storage (NAS)
 - Storage area networks (SAN)
 - Archives
 - Cloud storage