

Mind the Gap

Are You About To Fall Into

A Funding Shortage?

High-performance computing (HPC) is growing rapidly – and so is the amount of data that needs to be accessed and stored. Are you investing properly to make sure your HPC storage system can handle it, now and in the coming years?

How much is HPC growing?



8%
annual growth rate for HPC systems through 2019¹



9.4%
projected growth rate for HPC storage²

HPC adoption is growing beyond “traditional” use cases.

Financial services



Real-time marketing



Biosciences



Machine-to-machine learning



National defense



What's driving the growth in HPC?



High-performance data analysis (HPDA)

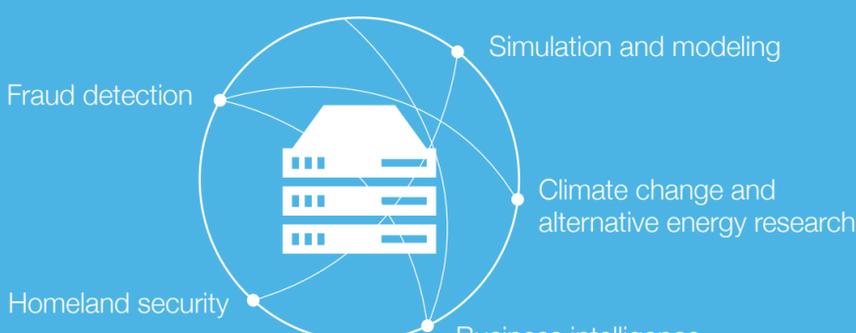


Big data and extreme-scale computing (BDEC)



Data-intensive modeling and simulation

HPC technologies are used in many critical applications.



Yet storage budgets at many organizations aren't keeping up.



12.5%
share of HPC spent on storage in current budgets³



21.7%
share of HPC that will need to be spent on storage by 2019⁴

Already, growth in data is overwhelming storage systems, creating logjams and bottlenecks.

What happens when HPC storage isn't adequate?



Does your HPC storage system have what it takes?

- Ability to scale capacity in a balanced, efficient manner
- Distributed architecture to assure availability and prevent slowdowns
- Very fast streaming I/O for accelerated data ingest and access
- Less complexity, making it easier to use

Cray® ClusterStor™ Storage Systems offer all these features and more.

High capacity

- Designed for linear scale with balanced storage processing, capacity and I/O throughput
- Grow more than 100 PB in a single global namespace

High performance

- Highly optimized from the disk to the software stack for maximum throughput
- Purpose-built disk drives designed for HPC and big data workloads

High efficiency

- Same performance with fewer drives, less floor space, reduced power costs
- GridRAID technology yields 400% faster disk-failure recovery time

High ease-of-use

- Single-pane-of-glass management
- Factory pretesting and configuration allows for installation in hours, not days or weeks

Cray ClusterStor solutions offer better storage for less cost, letting you bridge the funding gap...and secure your HPC storage future.

¹ IDC, "IDC HPC Update at ISC16," 2016

² Ibid.

³ Intersect360, "HPC Budget Allocation Map: HPC Budget Distribution," January 2016

⁴ IDC, "The Broader HPC Market: Server, Storage, Software, Middleware, and Services," May 2015