New hybrid configurations for HPE Cray Supercomputing Storage Systems E2000

Spend less on AI/HPC storage and more on GPU/CPU compute

What's the offer?

The fastest hybrid SSD/HDD supercomputing storage for AI and HPC workloads, helping customers address the unprecedented SSD price increase while ensuring high utilization of GPU and CPU compute nodes.

Situation
A sevenfold price increase for large SSDs in the last 12 months, driven by massive AI data center demand.

Complication
SSD supply constraints are expected to continue because building new fabrication plants takes years.

Implication
Customers now receive only a fraction of the all-flash storage capacity budgeted a year ago.

Solution
Cost-effective hybrid SSD/HDD storage that meets the performance requirements of silicon-vendor reference architectures, including NVIDIA and AMD.

Production example for hybrid supercomputing storage[1]

Usable capacity in single name space:	Data output of largest single job:	Peak data read speed for over 37,000 GPUs:
679 petabyte	**80** petabyte	**10** terabyte/second

Up to 82% lower acquisition cost for the same capacity[2]

Up to 41% more performance per storage rack[3]

Up to 32% more usable capacity per storage rack[4]

[1] Forging a File System, Oakridge National Laboratory, March 2023.

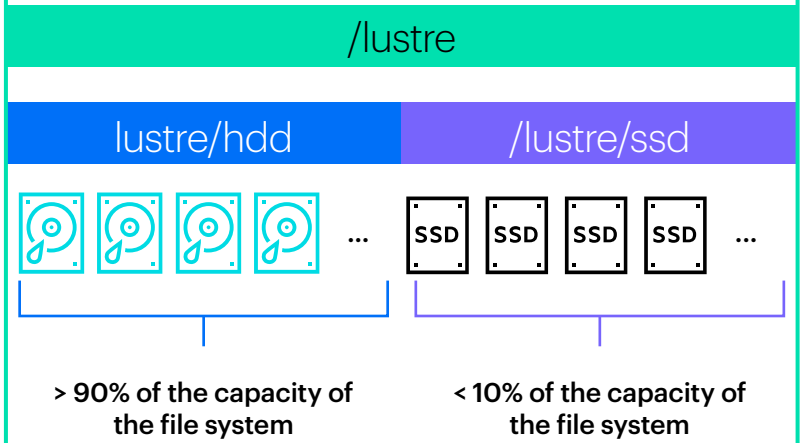
[2] HPE internal analysis comparing to next all-flash competitor (Vast Data)

[3] HPE internal analysis comparing to next competitor offering hybrid storage systems (DDN)

[4] HPE internal analysis comparing to currently shipping hybrid E2000 configuration with 24 TB HDD.

Hybrid HPE Cray Supercomputing Storage Systems E2000

Now available with 32 TB SAS-4 HDDs for maximum price/performance



HDD and SSD pools in the same namespace provide cost-effective capacity from HDD and strong performance from SSD.

Intelligent software and data movers put the right data in the right place at the right time.

[5] Top500, "Top 500 list," June 2026.

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Customer pain points and solution benefits

Pain point	Solution benefit
Today, customers only get a fraction—typically less than 20%—of the all-flash storage capacity budgeted for a year ago.	Get the full storage capacity you need and have budgeted for a year ago while still meeting the performance requirements of the reference architectures of NVIDIA and AMD.
Data is the life blood of both AI and HPC. Customers need storage infrastructure that has a proven track record of multiyear reliable production.	Hybrid Lustre-based HPE Cray Supercomputing Storage Systems since several years are in production with exascale supercomputers like Frontier (679 PB file system) and El Capitan (400 PB file system).
Shared data infrastructure needs to be able to connect to multiple supercomputers and AI/HPC clusters for maximum efficiency and the prevention of data silos.	Hybrid HPE Cray Supercomputing Storage Systems E2000 can connect to HPE Cray supercomputers with the HPE Slingshot interconnect and to AI/HPC clusters either with InfiniBand or with high-speed Ethernet.
Data is the life blood of both AI and HPC. If possible, that data should sit in open-source file systems without the lock-in of proprietary file systems.	Hybrid HPE Cray Supercomputing Storage Systems E2000 embed open-source Lustre parallel file system that powers more than 60% of the world's most powerful Top 100 supercomputers.[5]
As both AI and HPC become increasingly more mission-critical for organizations, the ability to get enterprise-grade support is crucial.	HPE is one of the two organizations that can provide enterprise-grade support for the leading file system of the world's most powerful supercomputers—Lustre—in-house.

More resources:

— HPE Cray Supercomputing Storage Systems E2000 QuickSpecs
— HPE Cray Supercomputing

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