Cray ClusterStor E1000 Storage Systems

What's new

- Up to 85/65 GB/sec read/write aggregate file system throughput from 24 NVMe Gen4 SSD in a 2 rack unit form factor.
- Up to 30/30 GB/sec read/write aggregate file system throughput from 212 7.2K RPM SAS HDD in a 10 rack unit, ultra-dense form factor.
- Attaches to any supercomputer or HPC cluster that supports either 200GbE HPE Slingshot, HDR/EDR InfiniBand, or 200/100 Gigabit Ethernet.
- Hybrid scalable storage unit combining flash and HDD storage that lowers TCO with Cray ClusterStor E1000.

Overview

Is your storage slowing down your HPC compute cluster?

The Cray ClusterStor E1000 Storage System is purpose-engineered to meet the demanding input/output requirements of supercomputers and HPC clusters in a very efficient way. The E1000 parallel storage solution typically achieves the given HPC storage performance requirements, significantly reducing the number of storage drives. That means HPC users with a fixed budget for the HPC system can spend more of their budget on CPU/GPU compute nodes, accelerating time-to-insight. The E1000 Storage System embeds the open-source parallel file system Lustre to deliver this efficient performance. Hewlett Packard Enterprise provides enterprise-grade customer support in-house for Lustre that scales out (nearly) linearly, without software licensing for the file storage systems per terabyte capacity or per storage drive. This allows customers to reap the benefits of the open-source movement while getting enterprise-grade support.

- NVIDIA GPUDirect® support for improved application run times with HPE Apollo 2000 systems, HPE Apollo 6500 systems and/or HPE ProLiant DL rack servers.

- In-house, enterprise-grade support for performance-accelerating features like Distributed Namespaces, Data on Metadata (DoM) Targets, Progressive File Layout (PFL), Multi-Rail LNet, and many more.

Features

Performance Efficiency

The Cray ClusterStor E1000 Storage System uses purpose-engineered NVMe PCIe 4.0 storage controllers that can extract more performance from the deployed storage drives than other storage solution. That means less enclosures, racks, and power/floor space consumption.

With up to 85/65 read/write aggregate file system throughput from 24 NVMe Gen4 SSDs in a 2-rack unit form factor with the scalable storage unit SSU-F. The Cray E1000 Storage System provides a very efficient way to deliver 80/50 GB/sec to your compute nodes from just 24 SSDs.

Up to 30/30 read/write aggregate file system throughput from 212 7.2K RPM SAS HDDs in a 10-rack unit form factor with the SSU-D2, an ultra-dense, cost-effective way to deliver 30 GB/sec from just 212 HDDs to your compute nodes.

Up to 24/24 read/write aggregate file system throughput from 186 7.2K RPM SAS HDDs in a 12-rack unit form factor with the SSU-M2, a datacenter friendly way to deliver 24 GB/sec from just 186 HDDs to your compute nodes.

Due to the open source parallel file system, no license charges are incurred for the file system per terabyte capacity or per storage drive. This enables you to remove software audit risk and cope with the constant growth in required capacity without exploding software licensing costs.

Reduce Complexity

The Cray ClusterStor E1000 Storage System ships to the customer as a fully-integrated Lustre storage solution after being soak-tested in the factory, decreasing time to results.

ClusterStor Manager is a single-system image management within the system management application that is provided with every system at no additional charge, allowing you to monitor and manage the different components of a Lustre storage system from a single pane of glass.

Users of supercomputers and HPC clusters from Hewlett Packard Enterprise can now get enterprise-grade support for their whole mission- or business-critical system (HPC compute and HPC storage) with one number to call, without the typical finger-pointing of different vendors during issue resolution.

Flexibility and Choice

The Cray ClusterStor E1000 Storage System attaches to every HPC compute system of any HPC compute vendor as long as the compute system supports either HPE Slingshot, HDR/EDR InfiniBand, or 200/100 Gigabit Ethernet, enabling the deployment of one shared storage system for all HPC clusters.

Mix and match, all-flash, HDD and hybrid Scalable Storage Units in the same file system allows you to tailor the solution to the workload mix (simulation, artificial intelligence, and high-performance data analytics) running on the compute nodes, enabling infrastructure consolidation of silos.

Choose between datacenter friendly SSU-M utilizing 5U84 disk storage enclosure or maximum capacity with SSU-D utilizing 4U106 ultra-dense disk storage enclosure.

Choose between read-intensive (RI) or mixed-use (MU) SSDs in the E1000's SSU-F and/or MetaData Unit (MDU).

Choose between shipment of the system from the factory in Cray ClusterStor racks or installation in your data center racks, as long as they meet technical specifications.

Intelligent Data Movement

Choice of intra- and inter-file system data movement with Cray ClusterStor data services and HPE Data Management Framework (DMF) v7.

With Cray ClusterStor data services, quickly search-at-scale with HPE indexing technology to automate previously manual file system management tasks.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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