

Benefits

Shatter Expectations

- Industry leading performance, density, and ultra-low latency
- Unlimited scalability
- Unrivaled flexibility
- Only solution to deliver high performance for block, file, and object workloads simultaneously

Get more from your data

- Real-time performance at scale to get results faster
- Consistent and predictable performance for your applications
- Concurrent block, file and object protocols simplifies your data center
- Extreme high performance for all data types

Features

- Extreme high performance of up to 120GB/s
- Ultra-low latency as low as 25µs
- Natively run block, file, and object workloads on independent controllers
- Up to 20 controllers per array
- Global namespace for NFS and S3
- Broad ecosystem integration

Pavilion HyperParallel Data Platform™

The most performant, dense, scalable, and flexible storage platform in the universe.

We now live in a data centric world, where an organization's success is predicated on the ability to quickly extract actionable insights from their data. Those organizations best able to analyze the available data and make timely decisions will be among the next generation of leaders, while those that remain tied to legacy architectures will be at a significant competitive disadvantage.

The Pavilion HyperParallel Data Platform™ dramatically accelerates what organizations can achieve by delivering a data platform with performance that was recently considered impossible, in an incredibly compact solution that reduces data center cost and complexity. Unrivaled flexibility for multiple data types and protocols, along with broad ecosystem integration ensure that every customer always has choice and control.

The Pavilion HyperParallel Data Platform is comprised of the Pavilion HyperParallel Flash Array™ and Pavilion HyperOS™. The Pavilion HyperParallel Flash Array leverages a unique, switch-based architecture to create a multi-controller solution that delivers an unmatched combination of high performance, ultra-low latency, and storage density. Pavilion HyperOS is a powerful, purpose built storage operating system designed to unlock the power of the multi-controller Pavilion HyperParallel Flash Array, to deliver scalability and flexibility that no other solution can offer.

Pavilion HyperParallel Flash Array

The unique architecture of the Pavilion HyperParallel Flash Array gives customers unprecedented choice and control to easily deploy high performance, low latency storage with unlimited scale for workloads across block, file, and object workloads without compromises.

With up to 20 independent controllers per array, the Pavilion HyperParallel Flash Array delivers unprecedented performance density to dramatically accelerate customer applications. Delivered in an ultra-dense 4RU system that can be configured with up to 40 x 100Gb or 10 x 200GN Ethernet or Infiniband ports and up to 2.2PB of capacity per array, the Pavilion HyperParallel Flash Array enables customers to run more applications and workloads on less hardware, dramatically reducing cost and complexity in the datacenter.

Built from the ground up for NVMe-oF, the Pavilion HyperParallel Flash Array provides incredibly low latency of as little as 25µs, measured at the host, enabling customers to get more from their data.

Pavilion HyperOS

The Pavilion HyperOS powers the Pavilion HyperParallel Flash Array, enabling customers to enjoy best of breed performance across block, file, and object workloads simultaneously. Global namespace for both NFS and S3 provides unlimited scale for modern applications, while still delivering unrivaled performance across systems. A simple, intuitive interface lets customers easily manage all their Pavilion systems from a single location.

Performance

The Pavilion HyperParallel Data Platform enables customers to do more with their data than ever before. The multi-controller design of the Pavilion HyperParallel Flash Array enables block, file, and object workloads to run natively on independent controllers to provide maximum performance to each workload. Ultra-low latency is achieved by leveraging a cacheless architecture, eliminating the need for an expensive tier of cache, dramatically reducing costs. This also enables extreme high performance for both reads and writes, across every data type. The Pavilion HyperParallel Flash Array delivers up to 120GB/s of read and 90GB/s of write performance, per array.

Density

The Pavilion HyperParallel Flash Array can dramatically reduce the storage footprint in the datacenter, reducing cost and complexity. Capable of supporting up to 20 controllers and up to 2.2 PB of capacity in a single 4RU array, the Pavilion HyperParallel Flash Array delivers an unrivaled combination of performance and density. Scale out to up to 22 PB in a rack with 10 arrays.

Scalability

Customers always get the right combination of performance and capacity without overpaying with the Pavilion HyperParallel Data Platform. Start with as little as four controllers and 18 drives, then independently and linearly scale up to 20 controllers and 72 drives in a single array. Then scale out across multiple arrays or multiple racks to meet the need of any dataset.

Scale out for block data using the distributed, clustered Pavilion HyperParallel File System™, or use an external file system such as IBM Spectrum Scale, Lustre, or BeeGFS. Pavilion HyperOS offers a global namespace for NFS and S3, to enable unlimited scale across multiple arrays.

Flexibility

Organizations always have choice and control with the Pavilion HyperParallel Data Platform. Uniquely capable of supporting block, file, and object workloads, with high performance and in any combination, customers get the right performance for every application in a single solution.

The Pavilion HyperParallel Data Platform enables organizations to do more with their data. They can analyze more data, faster than ever before while supporting every application and workload across the data center. A modern storage platform, the Pavilion HyperParallel Data Platform reduces costs, simplifies management, and reduces complexity, all while improving application performance.