

Benefits

- Universally unmatched storage
- Dramatically cut cost and complexity
- Eliminate use of multiple platforms for different data types
- Simplify the data center
- Manage all storage from a single interface

Features

- Best-in-class performance for Block
- Best-in-class performance for File
- Best-in-class performance for Object
- Maximum performance for each data type simultaneously
- Multiple protocols from a single system
- iSCSI, NVMe-TCP, NVMe-RDMA, NVMe-RoCE, NFS v3, NFS v4, pNFS, NFS-RDMA, S3

Pavilion HyperParallel Data Platform™

The Universally Unmatched Data Storage Platform

Part four of a four-part Solution Brief Series: Performance, Density, Scalability, and **Flexibility**.

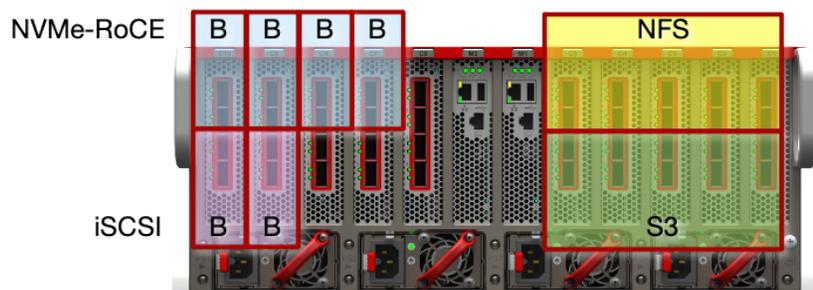
Different applications require different data types. Some applications, such as high performance databases, use block storage for the best performance possible. Applications that use unstructured data will use a protocol, such as NFS, to store data in a hierarchical structure. Large datasets can leverage object storage for massive scalability. Modern organizations need to support all three.

For customers that means deploying the Pavilion HyperParallel Data Platform, as it is the only storage solution that can deliver extreme high performance for each data type at the same time.

Best of breed solutions for each data type have led to islands of storage. Using multiple platforms from different vendors adds management complexity and costs. Organizations need a single platform that can deliver high performance for each workload simultaneously.

The HyperParallel Architecture

Leveraging the power of its unique architecture, the Pavilion HyperParallel Data Platform is the only solution to deliver high performance for block, file, and object data at the same time. Pavilion supports up to 20 independent controllers per system. Each of those controllers will support a given data type natively, enabling maximum performance for that data type. Other controllers can then support different data types as needed, in any combination.



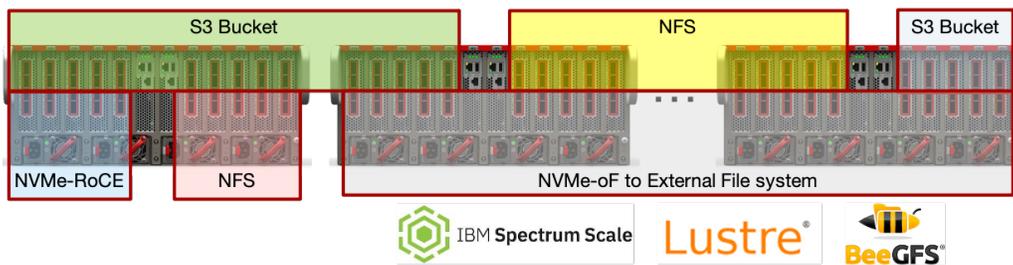
Single system with block, file, and object connectivity

Legacy systems are limited by their dual controller architecture. Each controller runs an instance of that vendor's OS, which is designed for a particular data type, such as file. They then run a second data type, such as object, on top of the first. Running two data types on a controller is inherently inefficient and dramatically limits the performance of the second data type.

Only the Pavilion HyperParallel Data Platform, with a unique network based architecture, breaks free from the limitations of legacy designs to deliver maximum performance for each data type simultaneously.

Flexibility at Scale

The flexibility of the Pavilion HyperParallel Data Platform extends across systems. Pavilion supports each data type, across systems, and in any combination. The Pavilion HyperParallel Data Platform can scale out block, file, and object workloads across any number of controllers, in any number of arrays, and in any combination.



Multiple System with block, file, object data types and an external file system.

Protocol Flexibility

The Pavilion HyperParallel Data Platform supports a range of protocols across block, file, and object data. Customers can use any, or all, of these protocols in any combination. For extreme high performance with ultra low latency for block data, Pavilion supports NVMe-TCP, NVMe-RDMA, and NVMe-RoCE. Pavilion also supports iSCSI.

File workloads are delivered over NFS v3, NFS v4, pNFS, and NFS-RDMA. S3 is supported for object data.

Customers connect to the Pavilion HyperParallel Data Platform using any of these protocols over up to 40 x 100Gb or 10 x 200Gb Ethernet or InfiniBand ports.



About Pavilion

Pavilion shatters customer expectations and resulting organizational outcomes by revolutionizing data processing for modern AI/ML, HPC, Analytics, Enterprise Edge and other data-driven applications. The Pavilion HyperParallel Data Platform™, powered by Pavilion HyperOS™, delivers unmatched performance and density, ultra-low latency, unlimited scalability and flexibility, providing customers unprecedented choice and control. Learn why Fortune 500 companies and federal government agencies choose Pavilion. Visit www.pavilion.io or follow the company twitter at <https://twitter.com/PavilionData>