

# PANASAS ACTIVESTOR SOLUTION BRIEF

## Panasas ActiveStor Ultra Out Performs Traditional HPC Storage

Enterprises that are working on the world's most innovative and complex high-performance computing (HPC) projects need to deliver insights and products fast. They need to improve their time to results and can't afford to expend unnecessary resources managing highly complex systems.

### The Trouble with Traditional HPC Storage

Traditional HPC storage solutions are fast, but they are not simple. They can be difficult to deploy, often requiring weeks to do so. And they create large, costly administrative burdens, demanding multiple, highly skilled resources to manage. Performance and capacity don't simultaneously scale, and significant manual intervention is required to tune for changes in workloads, applications, data, and users.

### Why Panasas ActiveStor Ultra Is Better

The Panasas® ActiveStor® Ultra solution is architected for simplicity and limitless performance. We've innovated our solution, based on 20 years of file system experience, to take advantage of the latest advances, including porting to Linux, offering a wider range of networking speed options, and leveraging the latest industry-standard hardware technologies.

ActiveStor Ultra breaks through the performance constraints of traditional HPC storage. With our comprehensive and tightly integrated solution, enterprises achieve high-performance direct parallel access to terabytes and petabytes of data while avoiding the reliability problems inherent in legacy systems as they grow.

### Ultrafast Parallel Performance

The Panasas DirectFlow® protocol can support your highest data-transfer requirements, accelerating time to results via clients doing direct parallel data I/O to multiple storage nodes.

### Consistent Mixed Workload Performance

Unlike traditional HPC storage solutions, the I/O performance of the Panasas ActiveStor architecture remains consistent across large numbers of concurrently executing applications, even when they are reading and writing a mixture of large and small unstructured data sets.

### True Linear Scalability for Large, Unstructured Data Sets

With the Panasas solution, you can easily and seamlessly scale the performance and capacity of your storage whether you're growing from 10 to 100, or even 1,000, ActiveStor enclosures will increase performance, capacity, and client access by the same factor with nearly perfect linear scaling.

### Enterprise-Grade Reliability and Availability

Data reliability and availability increase as you expand the ActiveStor scale-out solution. The Panasas advanced per-file distributed erasure-coding software implementation detects and corrects problems when a drive or storage node fails.

### Management Simplicity, Lower Costs

The Panasas ActiveStor solution is a fully integrated, scale-out network-attached storage (NAS) system with a single point of management regardless of scale. It includes enterprise data services you expect from a NAS system and is optimized for high-performance commercial market workloads.

By combining high performance with ease of use, Panasas reduces storage complexity by consolidating many different unstructured data workloads into a single scale-out ActiveStor solution. With our fast and simple solution, you can forget about storage and focus on what really matters whether it's building the next Dreamliner, winning a Formula One race, creating mind-blowing visual effects, curing disease, or modeling climate change.

**Contact Panasas to learn how you can  
unleash fast and simple scale-out NAS**



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