

# Panasas<sup>®</sup> Parallel Storage and SGI<sup>®</sup> Professional Services

A Collaborative Effort  
for a Complete Parallel  
Storage Solution

## Features and Benefits

- **Better productivity and faster time to solution** through a comprehensive design consisting of HPC application tuning, storage layout and file system technologies
- **Faster installation and uptime** via a design delivered by consultants and project managers with extensive experience in data management technologies and complex installations
- **Single point of accountability and contact** for the customer provides a one-stop shop for servers, storage, consulting and services
- **A wealth of available resources with security clearances** to meet the requirements of classified projects in sensitive markets

## ACCELERATE TIME-TO-RESULTS AND MAXIMIZE ROI

The demand for data storage solutions that can service fully parallel compute systems is soaring as more and more data centers turn to cluster configurations to address their high performance computing needs. The Panasas ActiveStor Parallel Storage Cluster, with its embedded parallel file system, meets the demands of the massively parallel data movement by delivering scalable performance and capacity. Panasas Parallel Storage increases application efficiency and performance as well as user and administrator productivity while lowering administrative costs and providing investment protection.

### Maximizing the Investment with SGI Professional Services

A key element of the Panasas parallel storage solution is consulting from SGI Professional Services. With experience in file system technologies, infrastructure optimizations and operational efficiencies - as well as a depth of understanding and industry experience in compute, data management and file system implementations - SGI helps customers maximize their investment. The result is a highly scalable parallel storage system with superior application performance, customized to the customer's needs.

SGI approaches each implementation with a commitment to understanding the customer's business and technology requirements so they can be leveraged for optimal business or organizational performance.

### Increasing Application Efficiency, Performance and Productivity with a Solution Optimized by SGI Professional Services

Through its ActiveStor product families, Panasas delivers increased performance and capacity to organizations that face cluster computing challenges. Slow performance, unleveraged applications, increased storage costs, and management difficulties can be addressed and solved by the Panasas / SGI solution.



# Panasas® Parallel Storage and SGI® Professional Services

## Case Study

A supercomputing institute needed breakthrough I/O performance for its data-intensive computational applications. SGI, working with Panasas, provided the solution. The proposed solution met the technical requirements and SGI also provided project management for the installation and support for the entire solution. The customer had extensive experience with SGI and bought from a vendor who they knew would provide the knowledge, service, and support they have come to expect and utilize.

*"Using the expertise of SGI Professional Services, their consultants designed and implemented a parallel file system solution that met the extreme I/O performance requirements for the shared file access needed by our applications. Their project manager provided project oversight and risk mitigation during the implementation of this complex design."*

**SGI optimizes the investment** by delivering both strategic and business value through its consulting services and long term operating value through implementation and support.

**SGI mitigates risk** through a successful implementation and smooth ongoing operation of the technology. The customer gets the right system to address the issue at hand, prevent deployment delays, and an implementation with optimum efficiency on an ongoing basis.

**SGI simplifies IT operations and projects** by providing customers with a central, single source of experienced, expert resources for a range of support – from assessing needs and designing solutions to deploying projects and administering them long term.

**SGI extends customer resources**, giving organizations the expertise they need without having to build an infrastructure of staff to support technology goals and objectives.

### Delivering Unmatched Value

SGI Consultants optimize the customer's investment, enabling the efficiencies and flexibility companies need to get up and running faster for the smooth on-going operation of the technology. The result: Investment is optimized and customers can stay focused on the core competencies that drive their revenue.

## Panasas Features and Benefits

### ActiveScale®

The operating environment of the Panasas Parallel Filesystem Solutions includes:

- **DirectFlow® Protocol:** Maximizes performance and increases productivity through faster application runtime and maximum application use
- **Single Global Namespace:** Simplifies storage management and provides scalability as the size and number of jobs to be processed increases
- **Scalable NFS and CIFS:** Ease of integration and scalability
- **Predictive Self-Management:** Combines health monitoring and self healing

### ActiveStor 3000/4000

- **High capacity and sequential access bandwidth:** For a no-compromise solution for large clusters requiring high sequential file access in an easy to maintain environment.
- **Performance:** ActiveStor 3000 up to 300MB/s per shelf, ActiveStor 4000 up to 600MB/s per shelf
- **Density:** 4U Shelf \* 5GB Cache \* Up to 20TB \* Up to 10 shelves in a 42U rack

### ActiveStor 5000/6000

- **Optimized for random and sequential access:** Ideal product for interactive, random, and large scale sequential IO applications.
- **Performance:** ActiveStor 5000 up to 350MB/s per shelf. ActiveStor 6000 up to 600MB/s per shelf.
- **Density:** 4U Shelf \* 20GB Cache \* Up to 20TB \* Up to 10 shelves in a 42U rack
- **High Availability:** Seamless failover of metadata services and the storage network for continuous access to data
- **Snapshots:** Instant backup and instantaneous restore

### To Learn More

For more information about SGI's Panasas solution and other services in SGI's portfolio of Professional Services, contact your SGI sales representative.

**SGI Professional Services delivers a unique convergence of technology, innovation, and expertise for exceptional business results.**



Corporate Office  
1140 E. Arques Avenue  
Sunnyvale, CA 94085  
(650) 960-1980  
www.sgi.com

North America +1 800.800.7441  
Latin America +55 11.5185.2860  
Europe +44 118.912.7500  
Japan +81 3.5488.1811  
Asia Pacific +61 2.9448.1463

