

IBM® GPFS™ and SGI® Professional Services



An Unbeatable Combination for File Management Solutions that Enhance Business and Operational Performance

Identifying the Opportunities for Improvement

With its industry-leading scalability and performance, IBM General Parallel File System (GPFS), a shared-disk cluster file system, is the ideal file storage solution for today's increasingly demanding I/O environments. GPFS delivers concurrent high speed file access to applications executing on multiple nodes of SGI Altix ICE, SGI Altix XE or other heterogeneous Linux-based cluster environments. In addition to providing file storage capabilities, GPFS offers storage management, information life cycle tools, centralized administration and shared access to file systems from remote GPFS clusters across a wide area network (WAN).

Optimizing the GPFS Investment with SGI Professional Services

A key element of the GPFS solution is consulting from SGI Professional Services. After listening and interacting with the customer to ensure understanding of its business and technology environments, the team develops and supports a solution to meet those requirements by leveraging GPFS technology for optimal business or organizational performance. Through consulting, guidance and assistance, as well as a depth of understanding and industry experience in file system implementations, the Professional Services team delivers a high performance GPFS solution for not only clustered Web or application services but any application that requires a scalable, highly available storage infrastructure.

Combining Know-How with Technology

The high performance, scalable GPFS solution integrates into the customer's environment by bringing together mixed server and storage components to provide a common view to enterprise file data. It delivers online storage management, scalable access, and integrated information lifecycle tools capable of managing petabytes of data and billions of files.

The GPFS solution, designed and implemented by SGI Professional Services and supported by SGI Customer Support, meets the demand for today's applications that require high scalability and extreme performance. Further, requirements such as file virtualization, reliable access to critical file data, and increased throughput and I/O can be addressed by the SGI / GPFS solution.

SGI Professional Services enhances the GPFS solution with:

- Extended depth of knowledge about HPC cluster products and GPFS file management
- A design tailored to the customer's unique needs
- On-site expertise for integration
- Hands-on project management and ongoing support
- Expert resources with years of experience in HPC and file system technologies

End to End Value

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

SGI simplifies IT operations and projects by providing customers with a single, central 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. This allows companies to stay focused on their core competencies – generating revenue from their products.



SGI works with a number of customers to design and implement a file system environment with GPFS. Our customers are looking for compute / storage solutions consisting of SGI Altix servers, SGI InfiniteStorage RAID, a file system for shared data access, services for the design and integration, and a one-stop customer support for the full system.

A government research facility needed a platform for a new and more powerful way to analyze environmental data. They wanted to reanalyze multiple years of Earth weather and climate data captured by satellites. They needed a dramatic expansion of computational capability and data management technology so engineers could go through the data and recalculate decades of information to arrive at more accurate conclusions.

A weather research facility took on a project to study our environment and man's impact on the environment. They needed to upgrade their compute and storage with the requirement for specialized cluster management software and a parallel file system. "To understand the practical problems the world faces, we first need to comprehend the underlying purely scientific problems. Powerful systems such as SGI solutions allow us to accelerate our ability to apply basic science to these practical problems. By handling larger problems all at once, we can get to our results sooner."

Customers choose SGI for our extensive expertise in file system technologies and for our ability to integrate third-party hardware and software and deliver a completely functional environment.

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

To Learn More

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



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

©2008 SGI. All rights reserved. SGI, the SGI logo, and Innovation for Results are registered trademarks of SGI in the U.S. and/or other countries worldwide. Linux is a registered trademark of Linus Torvalds in several countries. All other trademarks mentioned herein are the property of their respective owners.
4117 [07/08]