

## SGI™ Clustering Solutions

Rely on SGI Professional Services to Meet Your Most Extreme Computing Challenges

### Benefits

- Clustering expertise to meet your technology needs
- High availability for mission-critical applications
- Uniquely high throughput for scalable computing
- Complete custom Linux solutions with full support from SGI

What does it take to build a high-availability, high-throughput, scalable system that delivers advanced graphics for data visualization? A high-end budget comes in handy, but a Linux® OS-based system specifically engineered to address your unique requirements is the most elegant solution, while also being affordable to purchase and maintain.

### A Winning Combination: Linux and SGI

An offspring of the UNIX® OS, Linux offers a fully functional operating system that is multiuser, multitasking, and open source. Relied on by more than 15 million users today, Linux is inherently more stable than most PC operating systems, making it a smart choice for a broad array of supercomputing applications.

Linux's availability at low or no cost can inspire a cavalier attitude toward its installation. It is wise to bear in mind, however, that the sooner your system is up and running flawlessly, the sooner you benefit from it. A swift Linux installation that minimizes downtime and delivers optimal performance requires Linux expertise. SGI's Professional Services staff has this expertise and is committed to building long-term, productive relationships with our customers.

Given SGI's extensive experience developing high-performance IRIX® OS-based clusters, it was only natural that SGI would leverage for Linux its XFS™ high-performance journaling filesystem, enhanced scalability, and high-performance I/O support. Since launching its Linux support services in 1999, SGI has made a commitment to chip away at installation costs by providing innovative and creative computing solutions to the world's technical and creative users. SGI's success in satisfying the world's most demanding clients stems from delivering complete solutions that combine SGI hardware and Linux expertise.





### Combining the Power of Linux and Visualization

SGI adds the power of collaborative visualization to your Linux solution. Collaborative visualization allows groups of users to interact with their data in a group environment, allowing them to exchange ideas and make decisions based on a single data set, vastly reducing the time required to make decisions.



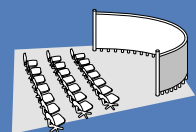
### Proven SGI Hardware

Comprehensive and cost-effective SGI™ 1000 series servers merge SGI's unrivaled expertise and innovation in scalability. SGI™ Origin™ 3000 series and SGI™ Onyx® 3000 series systems with NUMAflex™ technology lead high-performance computing into a new era of unprecedented performance and flexibility. The SGI Reality Center 3300W wall display occupies much less space than traditional rear-projected displays, and facilitates group visualization in conference rooms, offices, public exhibits, and laboratories.

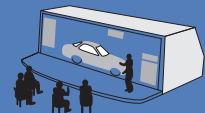
### Standard and Custom Visualization Solutions

SGI offers fully integrated solutions in a range of configurations and price points to suit your applications, space, and budget.

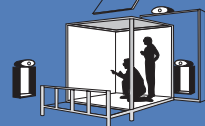
### Theater-style curved screens



### Walls/conference rooms



### Rooms



One of the ways to create the computing environment that meets your needs is to work with Professional Services to build a cluster of SGI servers using industry-standard Intel® processors.

The servers all feed into the SGI™ Onyx® family system, enabling users to visualize their computing results on a single SGI™ Reality Center™ 3300W display. To optimize uptime, each system offers many built-in redundancy features. SGI constantly updates its systems with features, fixes, and patches from others, including independent developers as well as other companies, while contributing its own features, software, and OS expertise to the open source community. High-availability cluster solutions from SGI can include fault tolerance, failover, and load balancing, including batch queue management and Web server distribution—all customizable to meet the specific needs of your unique environment.

### All This and Apps, Too

As part of its comprehensive commitment to Linux, SGI has also addressed a perceived paucity of Linux applications by partnering with key providers of science, manufacturing, and entertainment applications. SGI Professional Services specializes in tuning these applications for optimal performance on a Linux cluster.

• Sciences—In bioinformatics, SGI has teamed with Incyte Genomics to deliver a cost-effective computing solution for biotechnology and pharmaceutical users of Incyte technology

• Manufacturing—In EDA, SGI is delivering innovative Linux OS-based solutions for electronics design, to increase our customers' productivity, and reduce hardware and administration costs

• Entertainment—SGI continues its conquest of the special effects universe by collaborating with Delirium, Ltd.™ on Lucy®, a render manager for Linux clusters that gives video and film studios the cost-effective, distributed computing platforms required to maintain production schedules while creating increasingly complex visual content

### SGI Professional Services Completes the Solution

SGI Professional Services provides the assistance you need worldwide to maximize the return on your technology investment:

• Consulting and custom integration services help you determine the hardware and applications that most benefit your business and provide the expertise to deliver the greatest return on your technology investment

• A Custom Learning Solutions (CLS) menu of more than 10 Linux courses helps train your staff in upgrading, maintaining, and maximizing your technology infrastructure

• SGI's customer support is recognized as the gold standard in the computer industry for its responsiveness that optimizes your uptime and efficiency

For more information, please contact your local SGI office or visit our Web site at [www.sgi.com/linux](http://www.sgi.com/linux).



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