



Global Services

SGI HPC ON-DEMAND™ Services

High-Performance Computing on Demand

Features and Benefits

- Immediate and flexible response to internal or project-based HPC requirements
- Reduced capital requirements
- Lower total cost of ownership
- Reduced facility and space requirements
- World-class, high-performance computing technologies
- Advanced security options
- Proven hosting and Internet access services
- 24x7 system monitoring, upkeep, and maintenance

Cost-Effective HPC

In today's rapidly changing business environment, companies are constantly seeking new options for cost-effective, high-performance computing power. Being able to rapidly and reliably process large data sets, run massive simulations, and render detailed designs is vital to the manufacturing and energy industries, science labs, and government agencies. But high-performance computing [HPC] can be expensive, and for many the costs of acquiring, housing, administering, and utilizing a full-time supercomputer are prohibitive.

In response, SGI offers its unique SGI HPC ON-DEMAND rental services. Through SGI HPC ON-DEMAND services, your organization can rent high-performance compute time as needed on our powerful SGI™ Origin® family servers via an Internet hosting service. From your desktop, you carry out vital research and creative work while paying only for the time you use. Your company is spared the cost and upkeep of a high-end computing system while gaining the strength and reliability of the most powerful systems on the market today.

The SGI Origin Family

Built on our innovative SGI™ NUMA architecture, the SGI Origin family of high-performance computers delivers modular flexibility, unsurpassed scalability, and industry-leading processing power to scientific, engineering, and creative professionals around the world. Used for projects such as custom indexing and searches of the human genome, seismic processing of geological data, and engineering simulations of product CAD data, SGI Origin family servers are leaders in reliable, easy-to-use, high-performance computation. Projects are further enhanced by innovative SGI™ software tools, which enable HPC and visualization applications to leverage the most advanced computation and visualization hardware.

Highly Available Internet Access

SGI HPC ON-DEMAND services offer access to the SGI Origin family systems via a secure Internet connectivity solution from Genuity, one of the world's leading online service providers and hosts. Access is provided by Genuity's global Tier 1 Internet backbone and secured via its award-winning managed-security service, which includes encrypted SSH, Secure ID, or private VPN options.





The SGI HPC ON-DEMAND Hosting Environment

SGI integrates its systems with this powerful online service to deliver a world-class HPC computation and data-storage environment. Two high-end SGI Origin family servers reside in a managed Genuity data center and are available 24x7 for rental by the processor-hour. The equipment is attached to a multiterabyte RAID 5 disk array. The environment has the ability to ingest data using industry-standard tape formats like DLT. This unique environment allows our systems to be scalable in terms of CPUs, memory, and disk space, and these enhancements will be based upon customer demand. All upkeep, maintenance, and administration of these systems is managed by our trained system-support team. The result is a highly available data-processing resource for your organization's developers, researchers, and scientists.

Flexible Service Options

SGI Global Services offers three options for SGI HPC ON-DEMAND. Your company may purchase processing in blocks on a monthly basis, subscribe to receive regular access for occasional usage, or simply pay an hourly rate for access as required.

24x7 Outsourcing: An Additional Option

SGI Global Services also offers an HPC outsourcing solution for organizations that wish to utilize high-performance computing services full time. Your purchased or leased SGI server is housed in one of Genuity's state-of-the-art data centers, where our team of experts provides physical and Internet security, maintenance, and 24x7 monitoring of hardware and applications. Access is provided over an encrypted Internet connection or private VPN.

Optimizing Your Technology Investment

The true cost of an HPC environment is directly linked to how well it is utilized. In-house computing installations will not show a viable return on investment unless organizations are able to use them to capacity. At the same time, systems that are heavily utilized are inflexible and less able to handle mission-critical intermittent workloads. SGI HPC ON-DEMAND services meet your requirements for lower processing costs, improved efficiency, and greater access to HPC resources across the enterprise while ensuring that your technology budget remains invested where it is needed most.

Working with SGI Global Services

SGI Global Services is a leading worldwide information technology service provider specializing in high-performance computing solutions that address your most challenging IT problems. Our experienced specialists have the resources and skill sets to advise you on powerful, sustainable solutions that will significantly impact your organization's success. Offering industry-specific consulting, expert technology services, and ongoing system support, our organization is your single point of contact for HPC solutions, aligning strategy, people, processes, information, and technology to help you stay ahead of the curve.

To learn more about SGI HPC solutions, contact your nearest SGI sales office or visit our Web site at www.sgi.com.

SGI Global Services offers a comprehensive range of service solutions in the following categories:

- Professional Services
Consulting Services
- Productivity Services
Managed Services
Remanufactured Products
- Support Services
Mission-Critical
- Education Services

For additional information, please visit www.sgi.com.



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