

SGI High Performance Computing

OVERVIEW

The SGI High Performance Computing Solution focuses on the applications and workflow of your HPC resources, improving efficiency and accelerating results. Some HPC solutions focus solely on the latest processor or interconnect technology. They promise improved performance but rely only on Moore's Law to deliver. SGI takes a broader approach, combining the latest hardware technology with optimized software and 25 years of experience tuning applications for unique customer needs.

A few examples of SGI's ability to deliver large scale solutions targeted at specific customer needs:

- The World's most powerful commercial Supercomputer (TOTAL)
- The World's most performance-efficient cluster (~94% linpack efficiency) and 7 of 11 places in clusters with linpack efficiency > 90%
- The World's largest open x86_64 scale-out cluster (NASA Pleiades) - Source: top500.org June 2009 list
- The World's best SPECjbb2005, SPECint_rate2006 and SPECfp_rate2006 benchmarks - Source: spec.org

Unfortunately there are few awards for smaller clusters, essential though they are to individual workgroups, departments, labs or companies. SGI Professional Services can develop a solution to meet your needs, from a desk side workstation to a Mobile Data Center or something on top500.org. Leverage our innovation and experience to speed your processes and improve your bottom line.

SCOPE STATEMENT

Experienced SGI personnel can perform the following HPC optimization tasks. Our experts will help plan, design and execute an optimized HPC strategy and use these options as agreed upon:



SGI's HPC Solutions leverage top 500 experience to accelerate your unique HPC workload

- Understand your particular workflow and HPC resources
- Benchmark your data to appropriately size and tune the solution
- Deploy the solution as part of factory integration or on-site with a Professional Services Consultant
- Work with on-site personnel to ensure integration into business processes
- Demonstrate function of the SGI HPC solution
- Knowledge Transfer and Training
- Optional ongoing consulting to ensure maximum ROI and business results over time

PROJECT DELIVERABLES:

- Statement of Work
- Installed SGI HPC Solution
- Optional: HPC Hardware



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CUSTOMER RESPONSIBILITIES

- Provide at least one technical resource with the appropriate access privileges to assist SGI resource.
- Work with Project Manager to collect requested information and documents
- Provide outage window if needed.
- Hold to plan after agreement.
- Provide access to relevant applications, computing systems, storage systems, and networks as necessary during normal business hours, or at mutually agreed timeframes.
- Provide support from technical support teams for all vendors and third parties as necessary.
- Assume all responsibility for network connectivity, performance, and configuration issues.
- Complete any site upgrades prior to arrival of new hardware, if applicable

SGI PROFESSIONAL SERVICES RESOURCE STAFF

- Project Manager
- Solution Architect(s)
- Technical Consultant(s)
- Subject Matter Expert(s)

PROJECT SCOPE EXCLUSIONS/CHANGES

Any additions or changes to Project Scope must be stated in a separate SGI change order detailing the changes, and the impact on pricing, and timeframes. Such changes include, but are not limited to:

- Any work or requirement not listed in the Statement of Work.
- Delays due to site being unready
- Onsite Project Management

METHODOLOGY

SGI employs the following phases to manage this project:

Phase I - Planning and Design

During the Planning and Design phase,

- Conducts meetings to gather all information needed to ensure a successful assessment.
- Develops a detailed Project Plan.
- Schedules the installation and configuration to minimize Customer business disruptions.
- Involves Subject Matter Experts, Solutions Architects and Technical Consultants as appropriate.

Phase II – Implementation

During the Implementation and Testing phase,

- Coordinates work plan.
- Coordinates resources.
- Coordinates SLA's
- Validates work is complete/correct.
- Demonstrates all agreed upon criteria.

Phase III - Documentation and Acceptance

During the Documentation, Functional Overview, and Acceptance phase,

- Reviews and completes the SGI Implementation guide.
- Addresses all outstanding items for acceptance.
- Conducts a Summary Overview review with customer to discuss project closure.

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