

SGI Visual Supercomputing™

Delivering Leading Performance, Enhanced Capabilities, and Greater Productivity to Solve the Most Challenging Problems.

SGI Visual Supercomputing advances SGI's rich history and expertise of visualization innovation and leadership with fully integrated high performance, delivering a comprehensive supercomputing solutions portfolio.

Solution Highlights

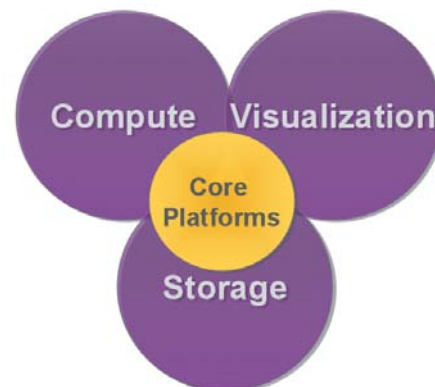
- Users accomplish more work with less cost, reduced complexity, and optimized workflow
- Delivers top performance by offering hybrid solutions optimally built from best of breed technologies
- Reduces workflow complexity through a data-centric architecture and technologies that seamlessly integrate.
- Manages diverse workloads by offering a software stack that supports visualization technology choices
- Enhances SGI Altix XE and SGI Altix ICE compute platforms with closely coupled CPU/GPU visualization nodes

Visualization is the keystone to research breakthroughs and industrial innovation. Because SGI Visual Supercomputing is fully integrated into a complete compute/visualize/data management solution, it optimizes workflow and productivity, reduces complexity, and delivers dramatically reduced time-to-results.

SGI Visual Supercomputing is our comprehensive portfolio of innovative high performance visualization technologies, services, and solutions that enable our customers to effectively solve their greatest supercomputing challenges. Those challenges include the ability to process increasingly larger and more complex data sets that continue to expand in scope and detail; the ability to explore multiple "what if" scenarios tight deadlines; and the need to display and interact with visual data in remote locations.

The SGI Visual Supercomputer is integrated into our industry-leading hybrid compute-visualization-data systems that deliver a seamless and highly productive supercomputing environment. The SGI Visual Supercomputer includes high performance visualization blades featuring the latest CPUs and GPUs, a comprehensive visualization-enabled software stack that reduces system complexity, and remote visualization capabilities. Every SGI Visual Supercomputer is engineered to match the unique global workflow requirements of each of our clients.

With the introduction of SGI Visual Supercomputing, SGI completes its comprehensive supercomputing portfolio, which spans supercomputing, visualization, data storage, and professional services. SGI Visual Supercomputing is the complete visualization solution - enabling users to explore, discover, and innovate in an unparalleled manner.



Build, Simulate, and Transmit with the SGI Complete Solution

SGI Visual Supercomputing meets the challenges of today's high performance visualization by delivering an unmatched ability to rapidly process enormous amounts of data at very high levels of detail, dramatically reduce time-to-solution, interact with highly complex objects in real time, and to distribute images remotely thus eliminating the need to transfer data.

Hybrid Architectures Provide Workflow-appropriate Solutions

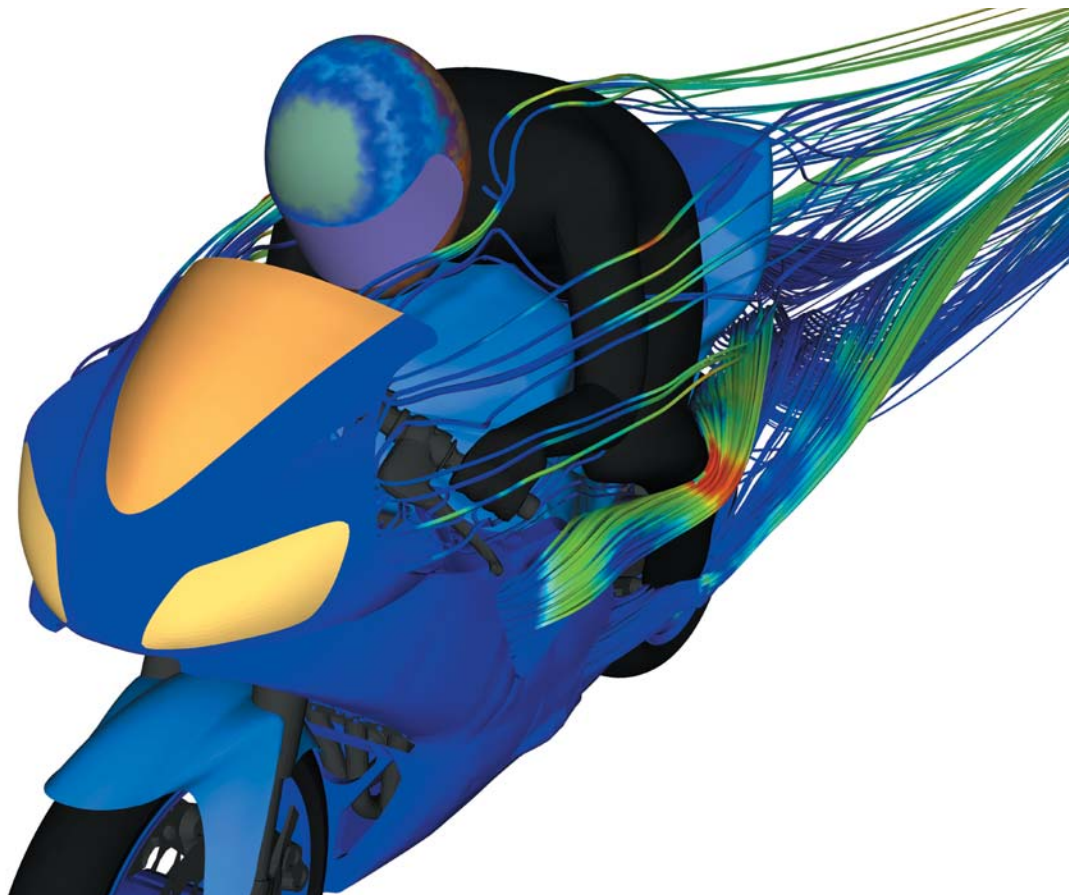
SGI's hybrid system architectures deliver compute, visualization, and data technologies necessary for specific user workflows. The hybrid solutions enable the best use of SGI's varied visualization technologies, managing, utilizing, and optimizing the most appropriate compute, visualization, and data resources. Workloads are managed through libraries tool, utilities, and applications that support visualization technology options.

Reduced Complexity Delivers Greater Productivity

Fully integrated compute, visualization, and data storage solutions provide reduced complexity, greater system reliability, and increased user productivity. SGI's smart workflow management reduces workflow complexity with a full range of unique IP centric visualization solutions.

Performance Visualization

Rapidly process enormous amounts of data and allow for analyzing multiple iterations and permutations of a given problem. Interaction with highly complex objects in real time and provide the ability for output to a variety of display environments, from a single monitor to caves. Full support for the remote display of images and collaboration. Explore, discover, and innovate in an unparalleled manner.



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