

# SGI Development Suite

Develop, Debug and Analyze Linux®  
Technical Computing Applications

## Key Features

SGI® Performance Suite

Intel® Composer XE

Rogue Wave® TotalView®

SGI Development Suite provides an advanced software development environment for developing, debugging, and performance analysis of high performance technical computing applications for the Linux operating system. SGI Development Suite complements SGI's suite products: SGI Performance Suite for developing performance accelerated technical computing applications and SGI Management Suite for system management of SGI servers and clustered systems. SGI partnered with the leading software development vendors, Intel® and Rogue Wave® Software, to offer a rich development environment for SGI's customers. SGI Development Suite consists of SGI Performance Suite, Intel® Composer XE high performance compilers and Rogue Wave® TotalView® Team advanced debugging and analysis tools.

SGI Development Suite addresses the software developer who creates applications for the Linux operating system with C, C++ or Fortran programming languages. Intel® C++ Compiler and Intel® Fortran Compiler in Intel® Composer XE provide performance-optimized compilers that support the latest standards.

SGI Development Suite includes optimized performance libraries that provide common interfaces and address different application needs.

- SGI® MPI, a scalable high performance MPI environment which includes SGI MPT MPI library and SHMEM data passing interface
- SGI® REACT™, a hard real-time environment for standard Linux distributions
- Intel® Math Kernel Library, a scientific and math library
- Intel® Integrated Performance Primitives, an audio/video library
- Intel® Threading Building Blocks, a C++ parallel development library

Debugging and analysis tools enable the developer to discover performance problems, memory usage issues, coding errors and security problems throughout the software development process.

- Rogue Wave® TotalView®, a highly integrated GUI debugger that can debug large scalable applications
- Rogue Wave® MemoryScape, a parallel memory analysis and error detection tool
- RogueWave® Replay Engine, a reverse debugging tool

## Development Suite Software Configuration

<b>SGI Development Suite</b>		
<b>SGI Performance Suite</b>	<b>Intel Composer XE</b>	<b>Rogue Wave TotalView Team</b>
<ul style="list-style-type: none"> <li>High Performance Technical Computing Performance Enhancing Software for SGI Systems</li> <li>SGI Accelerate</li> <li>SGI MPI</li> <li>SGI REACT</li> </ul>	<ul style="list-style-type: none"> <li>Software development tool suite tuned for application performance and code robustness</li> <li>Intel Composer XE                             <ul style="list-style-type: none"> <li>C++ Compiler</li> <li>Fortran Compiler</li> <li>Math Kernel Library</li> <li>Integrated Performance</li> <li>Primitives</li> <li>Threading Building Blocks</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Dynamic Source Code and Memory Debugging for C, C++ and Fortran HPC Applications</li> <li>TotalView</li> <li>MemoryScope</li> <li>CUDA</li> <li>ReplayEngine</li> </ul>
<b>SGI Systems</b>	<ul style="list-style-type: none"> <li>SGI UV, SGI ICE, SGI Rackable</li> </ul>	
<b>Linux Operating System</b>	<ul style="list-style-type: none"> <li>SUSE Linux® Enterprise Server 11</li> <li>Red Hat® Enterprise Linux® 6</li> </ul>	

### For More Information

SGI Performance Suite:

<http://www.sgi.com/products/software/sps.html>

Intel Composer XE:

<http://software.intel.com/en-us/intel-composer-xe/>

Rogue Wave TotalView Team:

<http://www.roguewave.com/products/totalview-family.aspx>

### How to Buy

Contact SGI Sales [www.sgi.com/sales/askarep.html](http://www.sgi.com/sales/askarep.html)

### About SGI

SGI, the trusted leader in high performance computing (HPC), is focused on helping customers solve their most demanding business and technology challenges by delivering technical computing, Big Data analytics, cloud computing, and petascale storage solutions that accelerate time to discovery, innovation, and profitability.

For more information please contact an SGI sales representative at 1-800-800-7441 or visit [www.sgi.com/contactus](http://www.sgi.com/contactus).

Global Sales and Support: [sgi.com/global](http://sgi.com/global)

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