



High Performance Computing Software Development Kit™ for 64-bit Intel® Xeon™ Processors



The High Performance Computing Software Development Kit (HPC SDK) from Absoft for 64-bit Intel® Xeon™ processor-based servers makes cluster computing a reality for small to large organizations. Delivered in a single, integrated package, the new HPC SDK includes the critical tools that developers need to build and run high-performance computing applications on 64-bit Intel® Xeon™ processors running Linux.

Simplify the design and optimization of high-performance computing applications and clusters

The HPC SDK provides a complete software development environment for high-performance computing. The solution is easy to install and simple to use, and incorporates best-of-breed high-performance computing development tools designed for 64-bit Intel® Xeon™ processors running Linux.

Highlights

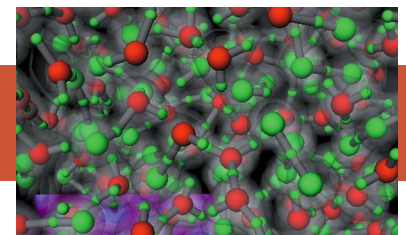
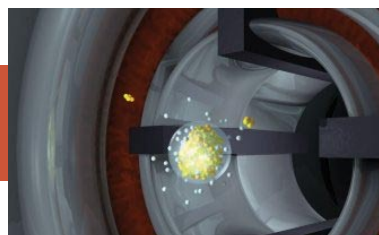
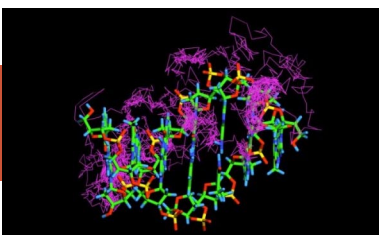
- **Enjoy instant deployment to start compiling and running high-performance computing applications quickly**
- **Expand functionality to meet unique application development requirements**
- **Take advantage of innovative software that helps simplify cluster development**
- **Leverage quick and simple, CD based installation**

The right solution for HPC Developers

Scientists, engineers and researchers are choosing clustered servers as the preferred solution for large, complex, computational, and data-intensive problems. Clusters have proven to be a cost-effective method for managing mixed HPC workloads. It is common today for clusters to be used by large corporations, universities and government labs to solve problems in life sciences, petroleum exploration, structural design, high-energy physics, finance and securities, and many more application areas requiring high performance computing.

"Absoft's new SDK, including Intel's Fortran and C++ Compilers, enables developers to write lightning-fast code for Intel processor-based platforms."

— Jon Khazam, Vice President and General Manager, Intel Software Developer Products Division.



Absoft HPC SDK includes the industry's 'Best of Breed' tools

The software components included help developers easily compile, debug, run and optimize high-performance computing applications. These components are also expandable, enabling the solution to scale from small clusters to thousands of nodes.

Included with the Absoft HPC SDK are:

- Intel® Fortran Compiler - for deployment speed
- Intel® C++ Compiler - for deployment speed
- Pro Fortran 95 Compiler - for legacy support
- Fx2 Debugging Solution - for development efficiency
- LAM/MPI (new) - for parallel execution
- Intel® MPI Library -- for parallel execution
- Intel® Cluster Math Kernel Library
- Absoft Common License Manager (CLM)
- Absoft Common Installer (ACI)
- Absoft Modules Environment (AME)
- Absoft Examples and HPC Benchmarks
- 12 months of technical support, maintenance and updates

Intel's most versatile server platform

The Intel® Xeon™ processor is the solution for specific communication applications that require the highest levels of processing performance - such as web-serving, storage (NAS, SAN), search engines, telecommunications servers, network management, security, voice, and load balancing.

Maximum flexibility with 64-bit computing

Intel® Extended Memory 64 Technology (Intel® EM64T) enables 64-bit computing on the server/workstation and desktop platforms when combined with supporting software. Intel EM64T improves performance by allowing the system to address more than 4 GB of both virtual and physical memory.

Intel EM64T provides support for:

- 64-bit flat virtual address space
- 64-bit pointers
- 64-bit wide general purpose registers
- 64-bit integer support
- Up to 1 terabyte (TB) of platform address space

The power you need, the choices you want

The Absoft HPC SDK supports Intel® Xeon™ processor-based DP, MP, and UP platforms. So, you can choose the best system to meet your needs. All Intel® Xeon™ processor-based systems feature high reliability, support for 32- and 64-bit applications and industry-leading performance.

Combined with the advanced development environment of HPC SDK, Intel® Xeon™ processor-based systems can help developers of scientific and technical solutions improve high-performance computing application development to improve time to market and competitive advantage.

Running HPC SDK on Intel® Xeon™ processor-based systems give you a reliable foundation to improve the development cycle of building, debugging, running and optimizing high-performance computing applications.



Reliability

With nearly 30 million Intel processor-based servers shipped since 1996, and a 20-year track record of delivering enterprise-class performance, you know you can count on Intel to deliver superior quality and reliability. And with over one million 64-bit processors already shipped, you can depend on 64-bit Intel® Xeon™ processor-based servers to help you smoothly transition to 64-bit computing.

Absoft's HPC SDK for 64-bit Intel® Xeon™ processor-based systems helps you achieve a highly reliable environment and mission-critical performance to fuel high-performance application designs.

For more information:

To learn more about HPC SDK, visit www.absoft.com.

Learn more about 64-bit Intel® Xeon™ processors at www.intel.com/xeon

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