

TOOLKIT FOR MPI DEVELOPERS ON HIGH-PERFORMANCE CLUSTERS

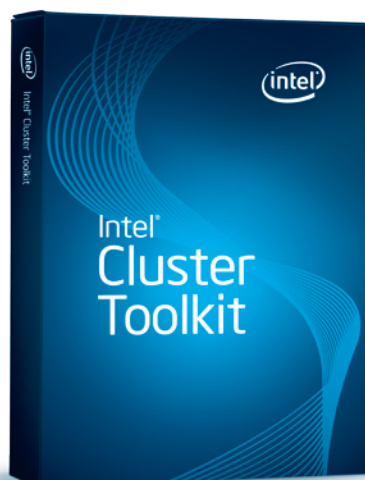
Intel® Cluster Toolkit 2011

For Linux* and Windows*

Product Brief

Intel® Cluster Toolkit 2011

For Linux* OS and Windows* OS



Increase performance and scalability of cluster computing

Intel® Cluster Toolkit 2011 provides a basic package of Intel cluster tools that help you develop, analyze, and improve performance for MPI applications on Linux* and Windows* OS based HPC clusters.

Features

Basic Tool Suite for MPI

- The Intel Cluster Toolkit license provides access and support for the following programs on either Windows or Linux:
- Intel® MPI Library 4.0 Update 1
- Intel® Trace Analyzer and Collector 8.0 Update 1
- Intel® Math Kernel Library 10.3 Update 3
- Intel® MPI Benchmarks 3.2.2

Easy Installation and Updates

With a valid product serial number for Intel Cluster Toolkit, you can register and/or login to the Intel® Software Development Products Registration Center (<https://registrationcenter.intel.com/>) and download the package and updates for one year from the date of purchase.

Featured Products

All the software tools included with Intel Cluster Toolkit have undergone a minor revision to give you high performance development tools and performance profiling tools for cluster software development with MPI. The following list contains just a few of the many new features included in this latest version:

Intel MPI Library 4.0 Update 1

Intel MPI Library 4.0 update 1 provides new levels of performance and flexibility for applications that execute on clusters of Intel® platforms. The library achieves these advantages by improved interconnect support, faster on-node messaging, and an application-tuning capability that adjusts to the cluster architecture and application structure. This library features multirail InfiniBand* (IB) support and enhancements to the native IB layer for lower communication latencies. In addition, the library maintains compatibility with previous Intel MPI 3.x versions,

Support

Every purchase of an Intel® Software Development Product includes one year of support services, which provide access to Intel® Premier Support and all product updates during that time. Intel Premier Support gives you online access to technical notes, application notes, and documentation.

Intel® Software Development Products

Intel Software Development Products help you develop high performance applications by offering a full suite of software tools:

- Intel® Cluster Studio 2011
- Intel® Parallel Studio XE 2011
- Intel® Composer XE 2011

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Optimization Notice

The Intel® MPI Library contains functions that are more highly optimized for Intel microprocessors than for other microprocessors. While the functions in the Intel® MPI library offer optimizations for both Intel and Intel-compatible microprocessors, depending on your code and other factors, you will likely get extra performance on Intel microprocessors.

While the paragraph above describes the basic optimization approach for the Intel® MPI library as a whole, the library may or may not be optimized to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include Intel® Streaming SIMD Extensions 2 (Intel® SSE2), Intel® Streaming SIMD Extensions 3 (Intel® SSE3), and Supplemental Streaming SIMD Extensions 3 (Intel® SSSE3) instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimization on microprocessors not manufactured by Intel. Microprocessor-dependent optimizations in this product are intended for use with Intel microprocessors.

Intel recommends that you evaluate other library products to determine which best meets your requirements.

