

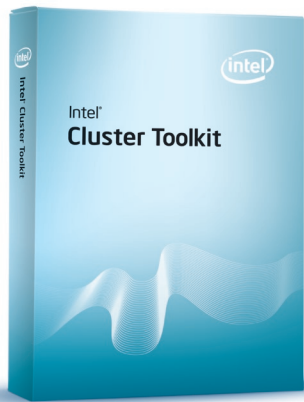


Intel® Cluster Toolkit 3.2.1

for Linux* and Windows*

Product Brief

Intel® Cluster Toolkit 3.2.1
for Linux* and Windows*



Increase Performance with Cluster Tools

Intel® Cluster Toolkit 3.2.1 provides exceptional value by bundling Intel® Trace Analyzer and Collector, Intel® Math Kernel Library (MKL), Intel® MPI Library, and Intel® MPI Benchmarks into a single package at a low price point. This software toolkit is targeted for message passing computing on clusters running either Linux* OS or Windows*. Easy to install and easy to use, this Intel software package helps you develop, analyze, and optimize performance of parallel applications for clusters using Intel® IA-32, Intel® Itanium, and Intel® 64 architectures.

Features

Extensive Toolkit

With support for Windows* and Linux clusters, the Intel Cluster Toolkit 3.2.1 assures industry wide compatibility *and* fully tested interoperability of these best-in-class tools:

- **Intel MPI Library 3.2 Update 1**—outstanding performance, flexibility, and ease of use
- **Intel Trace Analyzer and Collector 7.2 Update 1**—the leading MPI performance analysis product in the world
- **Intel Math Kernel Library 10.2**—the flagship of high-performance math libraries. Extensively threaded, highly optimized, core math functions, including BLAS, LAPACK, ScalAPACK, Sparse Solvers, Fast Fourier Transforms, Vector Math, and more
- **Intel MPI Benchmarks 3.2**—easy performance comparison of MPI functions and patterns

Easy Installation and Updates.

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

Featured Products

All the software tools included with the Intel Cluster Toolkit have undergone a minor revision (with the exception of Intel Math Kernel Library 10.2, which is a major revision) to give you the best parallel performance analysis tools for cluster software development. The following list contains just a few of the many new features included in this latest version:

Intel MPI Library 3.2 Update 1

The Intel MPI Library features Linux Standard Base (LSB) compliant RPMs, ILP64 support, an improved performance on low latency and higher bandwidths, process layout information exchange, an improved automatic process pinning enhancement on Intel® Xeon® 5500 processor series, collective optimization, and scalable mpdboot startup for faster cluster application launch. The Intel MPI Library has added support for Intel® Compiler Pro 11.1. For Windows*, Active Directory-based user authentication and direct interprocess memory copy have been added.

Intel Trace Analyzer and Collector 7.2 Update 1

The Intel Trace Analyzer and Collector provides Linux Standard Base (LSB) compliant RPMs, and support for Intel® Compiler Pro 11.1.

Intel Math Kernel Library 10.2

Intel Math Kernel Library (Intel MKL) version 10.2 is a major revision and offers performance improvements in the BLAS (32-bit and 64-bit); improvements in the direct sparse solver (DSS/PARDISO); performance improvement on the Intel® Core™ i7 processor family, optimized Vector Math Library functions, and much more. A new capability to track the progress of a lengthy computation and/or interrupt it has been added via a callback function mechanism. Additional functionality such as transposition functions, an implementation of the boost uBLAS matrix-matrix multiplication, and many more functions have been added to 10.2.

Intel® MPI Benchmarks 3.2

Intel® MPI Benchmarks provides extended support for Windows HPC Server 2008* and Microsoft* Visual Studio 2008*.

Support

Every purchase of an Intel® Software Development Product includes a 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 create the fastest software possible by offering a full suite of tools:

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- Intel® VTune™ Performance Analyzers
- Intel® Performance Libraries
- Intel® Threading Analysis Tools
- Intel® Cluster Tools

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