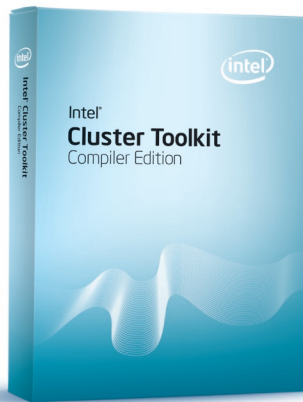




Intel® Cluster Toolkit Compiler Edition 3.2.1 for Linux* and Windows*

Product Brief

**Intel® Cluster Toolkit
Compiler Edition 3.2.1**
for Linux* and Windows*



The Best Tools at a Low Package Price

Intel® Cluster Toolkit Compiler Edition 3.2.1 provides an extensive software package containing Intel® C++ and Intel® Fortran Compilers for all Intel® architectures, PLUS all the Intel® Cluster Tools that help you develop, analyze, and optimize performance of parallel applications on Linux* OS or Windows* OS. By combining all the compilers and tools into one license package, Intel can provide single installation, interoperability, and support for the best-in-class cluster software tools at an incredibly low package price.

Features

Extensive Toolkit

The Intel Cluster Toolkit Compiler Edition 3.2.1 license provides access and support for the following programs on either Microsoft Windows CCS*, Microsoft Windows HPC Server 2008* OS, or Linux:

- Intel® C++ Compiler 11.1
- Intel® Fortran Compiler 11.1
- Intel® MPI Library 3.2 Update 1
- Intel® Trace Analyzer and Collector 7.2 Update 1
- Intel® Math Kernel Library 10.2
- Intel® MPI Benchmarks 3.2
- Intel® Debugger 11.1 (except with Intel® MPI Library for Windows applications)

Easy Installation and Updates

With a valid product serial number for the Intel Cluster Toolkit Compiler Edition 3.2.1, 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 Compiler Edition 3.2.1 have undergone 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® Compilers

Multicore. Intel® compilers have built-in optimization technologies and multithreading support that help create code that runs best on the latest Intel® multicore processors.

Optimize Applications. Intel compilers offer the breadth of advanced optimization, multithreading, and processor support that includes automatic processor dispatch, vectorization, auto-parallelization, data prefetching, and loop unrolling.

New Features. Additional information on the new features for each of the Intel compilers can be found at the following link:

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

Intel® MPI Library 3.2 Update 1

The Intel® MPI Library features automatic application-specific performance tuning, faster mpdboot startup, and improved collective operation algorithms for even more performance, and greater scalability over sockets and shared memory. It also offers enhanced flexibility and control over shared memory segment size for ease-of-use and OS, compiler, Python, and DAPL check for higher scalability. The Intel MPI Library features Linux* Standard Base (LSB) compliant RPMs for Linux OS, has added ILP64 support, an improved automatic process pinning enhancement on Intel® Xeon® 5500 processor series, and has added support for Intel® Compiler 11.1, Microsoft Windows HPC Server 2008* and Vista*, and DAPL 2.0*. In addition, it provides loadable third-party process manager (PMI) libraries for tighter integration with leading resource schedulers.

Intel® Trace Analyzer and Collector 7.2 Update 1

The Intel® Trace Analyzer and Collector has more reports, more graphics, more analysis, more filtering, and is more powerful! Correctness Checking reports are now available in the Intel Trace Analyzer GUI. It also features a refreshed overall look and feel and added support for Intel Compilers 11.1 and Microsoft Windows HPC Server 2008. The latest version now supports Linux Standard Base (LSB) compliant RPMs.

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 (32bit and 64bit); improvements in the direct sparse solver (DSS/PARDISO); performance improvement on the Intel® Core™ i7 processor family, an optimized Vector Math Library functions.

Intel® MPI Benchmarks 3.2

Intel® MPI Benchmarks provides extended support for Microsoft* 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:

- Intel® Compilers (C/C++, Fortran)
- Intel® VTune™ Performance Analyzers
- Intel® Performance Libraries
- Intel® Threading Analysis Tools
- Intel® Cluster Tools

Visit our website at www.intel.com/software/products for details about our entire line of software products.

More information :

www.scientific-solutions.ch/download/pdf/intel/ictce_indepth.pdf



Scientific Solutions SA

Rue du Midi, 2 - CH1009 Pully - Switzerland

Tel. : 021 711 15 20 - Fax : 021 711 15 21 - info@scientific-solutions.ch - www.scientific-solutions.ch

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