



Backgrounder

Introducing Intel® Parallel Studio XE 2013 and Intel® Cluster Studio XE 2013 Software Development Suites

Helping Developers Efficiently Produce Fast, Scalable and Reliable Applications

September 5, 2015 – Today Intel announced two new development suites: Intel® Parallel Studio XE 2013 and Intel® Cluster Studio XE 2013. The integrated suites include optimized compilers, libraries and analysis tools to help enable developers to efficiently extract improved application performance on current and next-generation processors including Intel® Xeon Phi™ coprocessors. These new suites also help developers deliver improved application performance with less effort on servers, clusters, workstations, desktops and Ultrabooks™ devices.

Intel Parallel Studio XE provides advanced tools to build superior shared memory applications. Intel Cluster Studio XE adds support for distributed and hybrid applications. Applications built using these tools typically run faster on computers, servers and clusters. The suites enable developers to deliver applications that perform and scale well in computers and clusters while improving productivity to create faster, more reliable applications.

New Capability Highlights

These suites include several new capabilities to help developers create faster, more reliable applications, including:

- Improved compiler and library performance
- Support for 3rd Generation Intel® Core™ processors, the upcoming “Haswell” microarchitecture and Intel Xeon Phi coprocessors
- A dozen new profiling features providing additional insight for tuning
- Low overhead Java* profiling support to help enable improved mixed mode profiling
- Pointer checker to detect and pinpoint buffer overflows that can result in crashes and security vulnerabilities
- Memory growth analysis that finds unallocated memory space not available using traditional memory analysis
- An MPI library with improved fault tolerance to improve cluster reliability
- Conditional numerical reproducibility for run-to-run consistency
- Expanded support of the C++ 11, Fortran 2008 and MPI 2.2 standards
- Extended parallelism to include Linux*, Fortran* and C#* in addition to Windows* and C/C++.

Availability	September 5, 2012	
Pricing	Intel [®] Parallel Studio XE for Windows* and Linux*	\$2,299
	Intel [®] C++ Studio XE for Windows and Linux	\$1,599
	Intel [®] Fortran Studio XE for Windows and Linux	\$1,899
	Intel [®] Cluster Studio XE for Windows and Linux	\$2,949
More info	www.intel.com/software/products	
Reseller	http://software.intel.com/en-us/articles/intel-software-products-resellers/	

Note: Additional configuration and pricing information available at www.intel.com/software/products

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Optimization Notice

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Intel's compilers may or may not optimize to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include SSE2, SSE3, and 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. Certain optimizations not specific to Intel microarchitecture are reserved for Intel microprocessors. Please refer to the applicable product User and Reference Guides for more information regarding the specific instruction sets covered by this notice.