1 Introduction
This document provides a summary of new and changed product features, and notes about features and problems not described in the product documentation. Additional release notes for each component can be found, after installation, in the respective components’ Documentation folder.

First-time users should read The Intel® Parallel Studio Overview (PDF, Adobe Reader* required). This is available during installation by clicking on the “Getting Started” link at the lower left of the install window, or after installation at Start > All Programs > Intel Parallel Studio > Getting Started > Parallel Studio Overview

1.1 Product Contents
Intel® Parallel Studio includes the following components:
1.2 System Requirements

For an explanation of architecture names, see http://software.intel.com/en-us/articles/intel-architecture-platform-terminology/

- A PC based on an IA-32 or Intel® 64 architecture processor supporting the Intel® Streaming SIMD Extensions 2 (Intel® SSE2) instructions (Intel® Pentium 4 processor or later, or compatible non-Intel processor)
  - Incompatible or proprietary instructions in non-Intel processors may cause the analysis capabilities of this product to function incorrectly. Any attempt to analyze code not supported by Intel® processors may lead to failures in this product.
  - For the best experience, a multi-core or multi-processor system is recommended
- 2GB RAM
- 4GB free disk space for all product features and architectures
- Microsoft Windows XP*, Microsoft Windows Vista*, Microsoft Windows 7*, Microsoft Windows Server 2003* or Microsoft Windows Server 2008*, 32-bit or “x64” editions - embedded editions not supported
- When installed on Microsoft Windows Server 2008:
  - Microsoft Visual Studio 2008* Standard Edition (or higher edition) SP1 with C++ and “x64 Compiler and Tools” components installed [1]
- When installed on Microsoft Windows XP, Windows Vista or Windows Server 2003, one of:
  - Microsoft Visual Studio 2008* Standard Edition (or higher edition) with C++ and “x64 Compiler and Tools” components installed [1]
  - Microsoft Visual Studio 2005* Standard Edition (or higher edition) with C++ and “x64 Compiler and Tools” components installed [1]
- Application coding requirements:
  - Programming Language: C or C++ (native, not managed code) [4]
  - Threading methodologies supported by the analysis tools:
    - OpenMP* [4]
    - Intel’s C/C++ Parallel Language Extensions
    - Intel® Threading Building Blocks
    - Win32* Threads
- To read the on-disk documentation, Adobe Reader* 7.0 or later

Notes:
1. Microsoft Visual Studio 2005 or 2008 Standard Edition installs the “x64 Compiler and Tools” component by default – the Professional and higher editions require a “Custom” install to select this.

2. The default for Intel® Parallel Composer is to build IA-32 architecture applications that require a processor supporting the Intel® SSE2 instructions. A compiler option is available to generate code that will run on any IA-32 architecture processor.

3. Applications built with Intel® Parallel Composer can be run on the same Windows versions as specified above for development. Applications may also run on non-embedded 32-bit versions of Microsoft Windows earlier than Windows XP, though Intel does not test these for compatibility. Your application may depend on a Win32 API routine not present in older versions of Windows. You are responsible for testing application compatibility. You may need to copy certain run-time DLLs onto the target system to run your application.

4. Intel® Parallel Amplifier and Intel® Parallel Inspector support analysis of applications built with Intel® Parallel Composer, Intel® C++ Compiler Professional Edition version 10.0 or higher, and/or Microsoft Visual C++ 2005 or 2008. Applications that use OpenMP and are built with the Microsoft compiler must link to the OpenMP “compatibility library” as supplied by an Intel compiler.

1.3 Documentation
Product documentation for each component of Intel® Parallel Studio can be found in the component’s folder. In addition, “Getting Started” documentation can be found in the Documentation folder under Parallel Studio.

1.4 Samples
A series of samples to help introduce you to Intel® Parallel Studio can be found in the Samples folder. The samples are provided as a ZIP archive which should be unpacked to a writable folder of your choice. Each component has additional samples under its respective folder.

1.5 Technical Support
If you did not register your compiler during installation, please do so at the Intel® Software Development Products Registration Center. Registration entitles you to free technical support, product updates and upgrades for the duration of the support term.

For information about how to find Technical Support, Product Updates, User Forums, FAQs, tips and tricks, and other support information, please visit http://www.intel.com/software/products/support

Note: If your distributor provides technical support for this product, please contact them for support rather than Intel.
2 Installation

2.1 Pre-Installation Steps

2.1.1 Configure Visual Studio for 64-bit Applications
If you are using Microsoft Visual Studio 2005 or 2008 and will be developing 64-bit applications you may need to change the configuration of Visual Studio to add 64-bit support.

If you are using Visual Studio 2005/2008 Standard Edition, no configuration is needed to build 64-bit applications. For other editions:

2. Click Add or Remove Features
3. Under "Select features to install", expand Language Tools > Visual C++
4. If the box “X64 Compiler and Tools” is not checked, check it, then click Update. If the box is already checked, click Cancel.

2.1.2 Installation on Microsoft Windows Vista*
On Microsoft Windows Vista, Microsoft Visual Studio 2005 users should install Visual Studio 2005 Service Pack 1 (VS 2005 SP1) as well as the Visual Studio 2005 Service Pack 1 Update for Windows Vista, which is linked to from the VS 2005 SP1 page. After installing these updates, you must ensure that Visual Studio runs with Administrator permissions, otherwise you will be unable to use the Intel compiler. For more information, please see Microsoft's Visual Studio on Windows Vista page (http://msdn2.microsoft.com/en-us/vstudio/aa948853.aspx) and related documents.

2.2 Installation
If you are installing the product for the first time, please be sure to have the product serial number available as you will be asked for it during installation. A valid license is required for installation and use.

To begin installation, insert the first product DVD in your computer’s DVD-ROM drive; the installation should start automatically. If it does not, open the top-level folder of the DVD-ROM drive in Windows Explorer and double-click on setup.exe.

If you received your product as a downloadable file, double-click on the executable file (.EXE) to begin installation.

You do not need to uninstall previous versions or updates before installing a newer version – the new version will replace the older version.
2.3 Installation Folders
The product installs into a folder arrangement as shown below. Not all folders will be present in a given installation. If other Intel® Parallel Studio tools are installed, they will share the top-level installation folder.

- C:\Program Files\Intel\Parallel Studio\
  - Documentation
  - Samples
  - Amplifier
  - Composer
  - Inspector

If you are installing on a system with a non-English language version of Windows, the name of the Program Files folder may be different. On Intel® 64 architecture systems, the folder name is Program Files (X86) or the equivalent.

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