

Intel® C++ Compiler 2.0.5 For Windows* CE, Standard

Intel® Debugging Extensions For Microsoft eMbedded Visual C++*

Release Notes

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Overview

The product *Intel® C++ Compiler 2.0.5 For Windows* CE, Standard* is a set of compiler tools and debugging extensions that integrate into various Microsoft* build environments.

It's intended to develop applications optimized for Intel XScale® microarchitecture written in C/C++ and assembly source code.

Besides the highly optimizing Intel® C++ Compiler the package also contains extensions to Microsoft* environments that extend debugging capabilities for the Intel XScale® microarchitecture. This document describes release notes for the debugging extensions only. For release notes for code generating components see separate document.

Please refer also to the [Product Cross Reference](#) to learn details on the distribution/installation packages.

This document describes release notes for the debugging extensions only. For the code generating components see separate release notes.

To receive technical support and updates, you need to register your Intel Software Product. See the [Technical Support](#) section.

Product Contents

This product release contains the components as follows:

Contents	Description	Version
Intel® Debugging Extensions	Intel® XDB Browser	2.10.4
Product Documentation	A product documentation index file is provided for easy access of all the documents. It's located at (default): C:\Program Files\Intel\Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++\doc\doc_index_EVC.htm). (see also Documentation)	NA
<i>Intel® Compiler Tools</i>	<i>described in separate Release Notes</i>	

Product Support

This product release provides support for target OS/platform and target CPU as follows:

Support	Description	Version
Target OS/Platform	Microsoft* Windows* CE .NET 4.2	NA
	Microsoft* Windows* CE 5.0	NA
	Microsoft* Windows Mobile* 2003 Software (PocketPC, Smartphone)	NA
	Microsoft* Windows Mobile* 5.0	NA
Development Environment	Microsoft eMbedded Visual C++* 4.0 (with Service Pack 1, 2 or 4)	NA
	Microsoft* Visual Studio* 2005	NA
Target CPU	Intel® PXA25x Processor Family	all versions

	Intel® PXA26x Processor Family	all versions
	Intel® PXA27x Processor Family	all versions

Product Cross Reference

This product reference is an overview of related distribution packages with their respective installation packages:

Product	Installation Packages	Components
Intel® C++ Compiler 2.0.5 For Windows* CE, Standard	Intel® C++ Compiler For Microsoft eMbedded Visual C++*	Intel® C++ Compiler For Microsoft eMbedded Visual C++* (described in separate Release Notes)
		Intel® Debugging Extensions For Microsoft eMbedded Visual C++*

Please refer also to the [Product Contents](#).

Compatibility

The Intel® Debugging Extensions - v2.10 For Microsoft eMbedded Visual C++* replace all previous versions of Intel® Debugging Extensions. It is highly recommended to uninstall any previous versions of the debugging extensions. (see [Installation](#)).

System Requirements

Host System

Same hardware and software requirements as for the installed [Development Environments](#).

Host Software

- Any of the [Development Environments](#) properly installed
- Adobe* Acrobat Reader* version 4.0 or later is required to view some of the product documentation
- A Web browser is required to view some of the HTML-based product documentation

Target Connection with Intel® XDB Browser

USB port on the host computer with an ActiveSync* connection to the target.

Target Hardware

Your target needs to be enabled for the Intel® Debugging Extensions.

What's New

Platform Manager no longer required for Visual Studio* 2005

It's no longer required to have Microsoft eMbedded Visual C++* or Platform Builder having installed in parallel to Visual Studio* 2005 to have Platform Manager support. The Intel® XDB Browser now works with Visual Studio* 2005 independently from the Platform Manager.

Note: The target has to be re-connected on first access following the message from the Intel® XDB Browser (`"Communication Port configured. Please disconnect/reconnect your device and try again."`)

No Intel® XDB Browser registration required under Visual Studio* 2005

It's no longer required to register the Intel® XDB Browser with the registration script `register<OS-Version>` as described in the Intel® Debugging Extensions On-line Help.

What was New in Previous 2.0 Releases

Support for Microsoft* Visual Studio* 2005

The Intel® Debugging Extensions 2.10.4 are now validated against the released version of Microsoft* Visual Studio* 2005.

FLEXIm* License Protection

The Intel® Debugging Extensions now use Macrovision* Corporation's FLEXIm* electronic licensing technology.

Defects Fixed

There were no defects found since the last release.

Defects Fixed in Previous 2.0 Releases

Synchronization issues between Visual Studio* 2005 and Intel® XDB Browser

The following warning appeared after starting Visual Studio* 2005:

```
The Add-in 'Intel(R) XDB Browser Synchronization Add-in' failed to load or caused on exception.
```

This is solved now.

Installation

Before Installation

- Different from the compiler installation, the debugging extensions are always being installed into a separate directory from where they are linked to the Microsoft* environments.
- The compiler and debugging extensions are being installed within one setup. In the custom setup dialog you can deselect components you don't want to have installed. If not disabled explicitly, the debugging extensions are being installed with the compiler installation.
- For the Intel® C++ Compiler for eMbedded Visual C++* 4.0 installation it is not possible to perform an "All User" installation (see [Known Issues](#)).
- You must have administrator privileges to install the Intel® C++ Compiler For Windows* CE.
- You must have a valid license file in order to install and use the product.
- It's highly recommended to uninstall any previous version of the debugging extensions (see [Uninstall previous Debugging Extensions](#)).
- IMPORTANT:

IMPORTANT: After installation of Visual Studio* 2005 or eMbedded Visual C++* 4.0 these environments have to be started at least once PRIOR to the debugging extensions installation to make registry entries effective. Otherwise the `Intel(R) Debugging Extensions` entry in the `Tools` menu of visual Studio* 2005 is not available.

License File

The Intel® C++ Compiler For Windows* CE v2.0.5 uses Macrovision Corporation's FLEXIm* electronic licensing technology. Before installing any component, the installer checks for a valid license. If there's none, you will be prompted to browse for a valid license file. The license file must be in place in order to use the compiler and debugger components.

The license file must have an extension ".lic".

The license directory is the location the environment variable `INTEL_LICENSE_FILE` points to (default `C:\Program Files\Common Files\Intel\Licenses\`). If it does not exist, the installation program will create it.

Electronic Download

If you have received the product by electronic download, the license will be sent to you via email. Please follow the instructions in the email to install the license file.

Product CD

If you have received the product on CD-ROM, a valid license is included on the CD and the installation program can locate it automatically. But, in order to obtain access to technical support and to be able to download and execute product updates, you must do the following:

1. **Register your product:** First, locate the serial number found on the inside flap of the product box. Then, visit the web site <https://registrationcenter.intel.com> and follow the instructions. After the registration you will receive an email within 24 hours containing a new license.
2. **Install the new license:** The new license in the email typically entitles you to one year of support services that allow you to download and execute product updates and obtain full technical support. The email also contains the instructions on how to install the license. Please follow the instructions to finish the new license installation.

Uninstall previous Debugging Extensions

It is highly recommended to uninstall any previous version prior to the Intel® Debugging Extensions v2.10 installation.

Choose **Add / Remove Programs** from the **Windows* Start / Control Panel** and click on the **Remove** button on any of the following entries you may have installed on your system:

```
Intel® C++ Compiler 2.0.2 for eMbedded* Visual C++  
Intel® C++ Compiler 2.0.1 for eMbedded* Visual C++  
Intel® C++ Compiler 2.0 for eMbedded* Visual C++  
Intel® Debugging Extensions For eMbedded Visual C++* for Microsoft* Windows* CE .NET
```

Note: There may be more than one occurrence of any of these entries in the Control Panel depending on the environments installed.

Install Debugging Extensions

Remember! By default, compiler installation includes also installation of the corresponding debugging extensions, if not explicitly disabled in the Custom Setup.

1. Start the `autorun.exe` from the product CD or - if you downloaded the installation files from the web - run the self-extracting `w_xwsv*.exe` installation file.
2. Click on the **Intel® C++ Compiler For Microsoft eMbedded Visual C++*** link on the left hand navigation bar of the Installation Home Page.
3. Click on the **Install Now** button following all instructions.
4. Optionally de-select sub-components in the **Custom Setup** dialog you **DO NOT** want to have installed (all available sub-components are selected by default).

Please refer also to the [Default Installation Directories](#) to learn where the components are being installed.

New Menu Entries in Microsoft* Environments

The installer adds the following new menu item in the **Tools** menu of **eMbedded Visual C++* / Visual Studio* 2005**:

```
Intel(R) Debugging Extensions
```

Default Installation Directory

The default installation directory for the **Intel® Debugging Extensions** is:

```
C:\Program Files\Intel\Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++\
```

where the name of the path, `C:\Program Files\`, may be different on your **Windows*** operating system.

Uninstall Debugging Extensions

Uninstall the complete product

To completely uninstall the **Intel® C++ Compiler** with corresponding **Intel® Debugging Extensions** from your computer go to **Add or Remove Programs** from the **Windows* Start / Control Panel**. Highlight the following you want to completely remove:

```
Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++
```

Click on the **Remove** button following all instructions.

Uninstall individual components

To uninstall components of the Intel® C++ Compiler and/or Intel® Debugging Extensions go to `Add or Remove Programs` from the `Windows* Start / Control Panel`. Highlight the following packages you want to uninstall components from:

Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++

Click on the `Change` button.

Click on the `Next` button.

Check the `Modify` checkbox from the `Program Maintenance` dialog.

Deselect the `Compiler/Debugging Extensions` you want to uninstall from the `Custom Setup` dialog.

This will re-install the components you selected to install and remove components you deselected.

Known Limitations

General Limitations

- If the Intel® XDB Browser or Intel® XDB Browser for JTAG is updating the display of the Register, Assembler, or Trace window, the cursor does not change to an hourglass to indicate the browser is busy. However, the browser does not respond to commands while updating.
- Do not close any window while the browser is busy! This can case a crash.
- To detect if the browser is busy, look into the right field of the status bar. Wait until this field is empty before issuing new commands.
- Saving an open windows configuration does not always save window position correctly.

Documentation

The documentation (contents see [Product Contents](#)) is available as On-line Help from the `Help/Documentation` menu of the Intel® XDB Browser environments.

This documentation help file `*.chm` as well as a Getting Started Guide are located in the directories as follows:

For the Intel® Debugging Extensions for eMbedded Visual C++*:

Documentation	Default Installation Directory
xdbplatman.chm On-line Help File	C:\Program Files\Intel\Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++\doc\Debuggers\xdbplatman
Getting_Started_EVC.pdf	C:\Program Files\Intel\Intel(R) C++ Compiler 2.0.5 for eMbedded Visual C++\doc\

where the name of the path, `C:\Program Files\`, may be different on your `Windows*` operating system.

ActiveX Bug Workaround

When opening help topics that contain Related Topics button links, you may see an Internet Explorer* warning message that reads: "An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction?". You can safely click "Yes" to continue.

This problem occurs due to registry errors caused by installing a Windows* Service pack.

To avoid seeing the warning, you need to register and then reregister the HTML Help ActiveX control. To do this, open a command prompt and type:

```
regsvr32 /u %windir%\system32\hhctrl.ocx
regsvr32 %windir%\system32\hhctrl.ocx
```

Technical Support

Your feedback is very important to us. To receive technical support for the tools provided in this product and technical information visit Intel® Premier Support at <https://premier.intel.com>.

Important Note: If your distributor provides technical support for this product, please contact them for support rather than Intel® Premier Support.

For general support information please visit <http://www.intel.com/software/products/support/>.

Submitting Software Issues

Steps to submit an issue:

1. Go to <https://premier.intel.com/>.
2. Type in your Login and Password. Both are case-sensitive.
3. Click the "Submit" button.
4. Read the Confidentiality Statement and click the "I Accept" button.
5. Click on the "Go" button next to the "Product" drop-down list.
6. Click on the "Submit Issue" link in the left navigation bar.
7. Choose "Development Environment (tools,SDV,EAP)" from the "Product Type" drop-down list.
8. If this is a software or license-related issue, choose "Intel C++ Compiler, Windows* CE, Std" from the "Product Name" drop-down list.
9. Enter your question and complete the fields in the windows that follow to successfully submit the issue.

Guidelines for problem report or product suggestion:

1. Describe your difficulty or suggestion.
For problem reports please be as specific as possible, so that we may reproduce the problem. For compiler problem reports, please include the compiler options and a small test case if possible.
2. Describe your system configuration information.
Run the compiler (ccxscoe) from the command window and provide the compiler version.
3. Copy the "Package ID" (e.g. w_xwisv_pc_2.0.xxx) into the corresponding Premier Support field. Please include any other specific information that may be relevant to helping us to reproduce and address your concern.
4. If you were not able to install the compiler or cannot get the Package ID, enter the filename you downloaded as the package ID.

Additional Information

Related Products and Services

Information on Intel® Software Development Products is available at <http://www.intel.com/software/products>.

Some of the related products include:

- The [Intel® Compilers for Embedded Application Development](#) are an important part of making software run at top speeds with full support for the latest Intel XScale® application processors.
- The [Intel® C++ and Fortran Compilers](#) are an important part of making software run at top speeds with full support for the latest Intel IA-32 and Itanium® processors.
- The [VTune™ Performance Analyzer](#) enables you to evaluate how your application is utilizing the CPU and helps you determine if there are modifications you can make to improve your application's performance.
- The [Intel® Performance Library Suite](#) provides a set of routines optimized for various Intel processors. The [Intel® Math Kernel Library](#), which provides developers of scientific and engineering software with a set of linear algebra, fast Fourier transforms and vector math functions optimized for the latest Intel Pentium® and Intel Itanium processors. The [Intel® Integrated Performance Primitives](#) consists of cross-platform tools to build high performance software for several Intel architectures and several operating systems.
- The [Intel® Software College](#) provides training for developers on leading-edge software development technologies. Training consists of online and instructor-led courses covering all Intel architectures, platforms, tools, and technologies.

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