Intel® Visual Fortran Compiler 9.1 for Windows*
Installation Guide

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Introduction

This document explains how to install and configure for use the Intel® Visual Fortran Compiler 9.1 for Windows* and associated tools. It also provides information about the documentation and sources of additional information and technical support.

IA-32

The IA-32 Intel Architecture. 32-bit refers to systems based on 32-bit processors. Intel® Pentium® processors, Intel® Pentium® II processors, Intel® Pentium® Pro, Intel® Pentium® 4, Intel® Celeron® or Intel® Xeon®, or processors with compatible IA-32 Intel Architecture. Intel® Itanium® processors are not supported.

Intel EM64T

Intel® EM64T (Intel® Extended Memory 64 Technology) refers to systems based on 32 processors with Intel® Pentium® 4 processor extensions, systems with 64-bit operating system such as Microsoft® Windows® XP Professional x64 Edition, Microsoft® Windows® Server 2003 x64 Editions, Microsoft® Windows® 2003® Hotfixes and Service Pack 1 (SP1) and Service Pack 2 (SP2) systems are also supported by Intel compilers for EM64T based applications.

Compatible

Intel compilers support the Intel® Itanium® processor running a 64-bit operating system.

Intel Processor

The term "Intel" refers to building an application that will run on the same platform as Intel® IA-32 or Intel® EM64T processors. The term "Intel" or "Intel® Itanium" refers to building an application that will run on a platform that is optimized for Intel® Itanium® processors. Intel® Itanium® processors are not supported by Intel® Visual Fortran 9.1 for Windows*.

Intel Processor Recommendations for Developing Applications

Intel® Target	IA-32	Intel® EM64T	Intel® Itanium®
Intel® Pentium® 4	Yes	Yes	No
Intel® Xeon®	Yes	Yes	No
Intel® Itanium®	No	No	Yes

Note: The above table refers to use of the command-line build environment. Microsoft Visual Studio* 2005 provides the ability to build applications for Intel® Itanium® processors. Intel® Visual Fortran 9.1 for Windows* does not support Microsoft Visual Studio 2005 Team Edition only.

Intel® Itanium® processor-based systems

Intel Processor Recommendations for Developing Applications

Intel® Target	IA-32	Intel® EM64T	Intel® Itanium®
Intel® Pentium® 4	Yes	Yes	No
Intel® Xeon®	Yes	Yes	No
Intel® Itanium®	No	No	Yes

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Intel® Itanium® processor-based systems

Intel Processor Recommendations for Developing Applications

- Microsoft Windows* 2000, Windows XP or Windows Server 2003
- Microsoft Windows Vista*, Windows XP, Windows Server 2003 Enhanced Edition and Windows XP are not supported for product development, but are supported for product deployment.
- One of the following development environments must be installed: Microsoft Visual Studio* .NET 2003 or 2003 SP1, Microsoft Visual Studio* 2005 or 2005 SP1, Microsoft Visual C++ Express Edition, Microsoft Visual Studio* 2005 Express Edition, or Microsoft Visual Studio* 2005 Express Edition, supported for command line component installation.
- Microsoft Visual C++ Express Edition, supported for command line development, and for creating mixed language applications with Visual Studio.
- The development of IA-32 applications on Windows XP Professional x64 Edition and Microsoft Windows Server 2003 x64 Editions is supported. The minimum supported Microsoft development environments are required.
- If using Microsoft Visual C++ 2005 Express Edition, installation of the Microsoft Platform SDK is required. Microsoft Visual C++ Express Edition does not include a 64-bit compiler.

Intel Processor Recommendations for Developing Applications

- Microsoft Windows* 2000, Windows XP or Windows Server 2003.
- Microsoft Windows Vista*, Windows XP, Windows Server 2003 Enhanced Edition and Windows XP are not supported for product development, but are supported for product deployment.
- One of the following development environments must be installed: Microsoft Visual Studio* .NET 2003 or 2003 SP1, Microsoft Visual Studio* 2005 or 2005 SP1, Microsoft Visual C++ Express Edition, Microsoft Visual Studio* 2005 Express Edition, or Microsoft Visual Studio* 2005 Express Edition, supported for command line component installation.
- Microsoft Visual C++ Express Edition, supported for command line development, and for creating mixed language applications with Visual Studio.
- The development of IA-32 applications on Windows XP Professional x64 Edition and Microsoft Windows Server 2003 x64 Editions is supported. The minimum supported Microsoft development environments are required.
- If using Microsoft Visual C++ 2005 Express Edition, installation of the Microsoft Platform SDK is required. Microsoft Visual C++ Express Edition does not include a 64-bit compiler.

Intel Processor Recommendations for Developing Applications for Intel EM64T or 64bit Extension Processors

- Microsoft Windows Server 2003, Windows XP or Windows Vista*.
- For development using the Visual Studio environment or the command line environment, one of the following must be installed: Microsoft Visual Studio* .NET 2003 or 2003 SP1, Microsoft Visual Studio* 2005 or 2005 SP1, Microsoft Visual Studio* 2005 Express Edition, Microsoft Visual Studio* 2005 Express Edition, or Microsoft Visual C++ Express Edition.
- Microsoft Visual C++ Express Edition, supported for command line development, and for creating mixed language applications with Visual Studio.
- Microsoft Visual Studio* 2005 Express Edition, supported for command line component installation.
- Running applications on systems that do not have Intel Visual Fortran Compiler installed requires redistribution of libraries and DLLs as described under Technical Support.

Notes

- The above lists of processor model numbers are not exhaustive - other processor models correctly supporting the same instruction set as those listed are supported. Intel does not test or support Intel® Visual Fortran on Intel® Itanium processor supporting a specific processor model.
- Some optimization options have restrictions regarding the processor type on which the code will run. Please see the documentation for more information on these options.
- Advanced optimization options or very large programs may require additional memory to compile and link successfully.
- Intel® Visual Fortran Compiler 9.1 is not supported on a new version of the compiler documentation.

It is recommended that developers upgrade to ensure that the machine instructions generated by the compiler are supported by the operating system and processor on which the application is to run.

Setting the Compiler and Tools

Before installing the compiler and tools, you should check the IPA Downloads section of Intel® Premier Support to see if there are updated versions of the IPA tools available on CD or as listed in your electronic download license letter may not be the most recent. Intel® Visual Fortran Compiler 9.1 requires IPA 1.0 or later. Intel® Visual Fortran Compiler 9.1 requires the support as described under Technical Support.

Installing the Compiler and Tools

If you encounter difficulty with the initial installation or registration process, please visit http://www.intel.com/software/products/support/ for assistance.

Pre-installation Instructions

To install the Intel® Visual Fortran Compiler, you need to use an account that is a member of the `Administrators` or `Power Users` group. Any normal account with `Users Debugger Users` or higher user privileges can run the Intel® Debugger.

The default installation directory is referred to as `<install-dir>`. The default directory is `C:\Program Files\Intel` and the default directory is `C:\Program Files (x86)\Intel`. The Fortran 9.1 compiler is installed into the `Compiler\Fortran\9.1` subdirectory.

If you will be using the Microsoft Visual Studio development environment or the Microsoft Platform SDK (see Systems Requirements), you must install those before installing the compiler.

Note: If you have version 6.x or 9.0 of Intel Fortran Compiler installed, you must uninstall it before installing Intel® Visual Fortran Compiler 9.1 in the same directory. Multiple versions of Intel Fortran Compiler. To do this in order to allow these versions to co-exist:

1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select the Intel Fortran Compiler to be removed and modify and click the Change button. When the InstallShield Wizard appears, click Next.
3. Select the Remove button, then Next.
4. Click Next, Install and then Finish.
5. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.0 Integrations into Microsoft Visual Studio* .NET`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.0 Integrations into Microsoft Visual Studio*`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
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4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.0 Integrations into Microsoft Visual C++*`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Debugger 9.1`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) License Manager for FLEXlm*`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.1`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.1, Extended Memory 64 Technology Edition`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler Integration into Microsoft Visual C++ .NET`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `Intel(R) Visual Fortran Compiler 9.1`.
3. Click Modify.
4. Rename the CSI integration for version 9.0. follow these steps:
1. In the Windows Control Panel, select `Add or Remove Programs`.
2. Select `"Control Panel"`. The following is a complete list of Intel Fortran installed items:
- `Intel(R) Debugger 9.1`
- `Intel(R) License Manager for FLEXlm*`
- `Intel(R) Visual Fortran Compiler 9.1`
- `Intel(R) Visual Fortran Compiler 9.1, Extended Memory 64 Technology Edition`
- `Intel(R) Visual Fortran Compiler Integration into Microsoft Visual C++ .NET`
- `IMSL Library 5.0 for Intel(R) Fortran Compiler 9.1`

Note: uninstalling the Intel Visual Fortran Compiler does not delete the corresponding IMSL Library.

Obtaining Technical Support

Intel Fortran is very responsive. Its to resolve technical support for the tools provided in the product and technical information including FAQ's and product information. Please visit Intel® Premier Support at http://premier.intel.com/ or http://www.intel.com/software/products/support/ for more information.

- Registering for support varies for release products or pre-release products (alpha, beta, etc). Intel recommends product have support web pages on http://www.intel.com/software/products/.
- If you are having trouble registering or are unable to access Intel Premier Support account, please let Intel know of the problem at http://premier.intel.com/contactsupport/.

Note: If your distribution provides technical support for this product, please contact your support provider for assistance.

Technical Support Information

For information about the Intel Visual Fortran Compiler Users Forums, FAQs, tips and tricks, and other technical information, see the Intel Software Development Products Web Site at http://www.intel.com/software/products/. For general support information please visit http://www.intel.com/software/products/support/.

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