

## System Requirements

Please refer to the appropriate section for hardware and software system requirements, depending upon your intended use of the Intel® C++ Compiler for Windows\*.

To develop applications for:

- [IA-32 processors on an IA-32 processor-based system](#)
- [Intel® Itanium® processors on an IA-32 processor-based system](#)
- [Intel® Extended Memory 64 Technology \(Intel® EM64T\) or AMD Opteron processor on an IA-32 processor-based system](#)
- [Intel EM64T or AMD Opteron processor on a system with Intel EM64T](#)
- [Intel EM64T on a system with Intel EM64T](#)

## Develop Applications for IA-32 Processors on an IA-32 Processor-based System

Type	Requirements
Hardware	<ul style="list-style-type: none"><li>• A system based on an IA-32 processor (minimum 450 MHz Intel® Pentium® II processor or greater - Intel® Pentium® 4 recommended), or a system based on an AMD Athlon* processor</li><li>• 256 MB of RAM (512 MB recommended)</li><li>• 100 MB of free hard disk space, plus an additional 200 MB during installation for download and temporary files</li><li>• 100 MB of hard disk space for the virtual memory paging file. Be sure to use at least the minimum amount of virtual memory recommended by your operating system</li></ul>
Software	<ul style="list-style-type: none"><li>• Microsoft Windows* 2000, Windows XP or Windows Server* 2003</li></ul> <p><b>Note:</b> Microsoft Windows 98, Windows 98 SE, Windows Millennium Edition and Windows NT* are not supported for product development, but are supported for application deployment.</p> <ul style="list-style-type: none"><li>• One of the following Microsoft development products must be installed:<ul style="list-style-type: none"><li>○ Microsoft Visual C++* 6.0</li><li>○ Microsoft Visual Studio* 98</li><li>○ Microsoft Visual C++ .NET 2002 or 2003, Standard Edition or higher</li><li>○ Microsoft Visual Studio .NET 2002 or 2003, any edition, with Visual C++ component installed</li></ul></li></ul>

## Develop Applications for Intel® Itanium® Processors on an IA-32 Processor-based System

Type	Requirements
Hardware	<ul style="list-style-type: none"> <li>• A system based on an IA-32 processor (minimum 450 MHz Intel Pentium II processor or greater - Intel Pentium® 4 recommended), or a system based on an AMD Athlon processor</li> <li>• 256 MB of RAM (512 MB recommended)</li> <li>• 150 MB free hard disk space, plus an additional 200 MB during installation for download and temporary files</li> <li>• 100 MB of hard disk space for the virtual memory paging file. Be sure to use at least the minimum amount of virtual memory recommended by your operating system.</li> </ul>
Software	<ul style="list-style-type: none"> <li>• Windows* 2000, Windows XP, Windows Server* 2003</li> </ul> <p><b>Note:</b> Microsoft Windows 98, Windows 98 SE, Windows Millennium Edition and Windows NT* are no longer supported for development, but are supported for application deployment.</p> <ul style="list-style-type: none"> <li>• Supported Microsoft Visual Studio* environments: <ul style="list-style-type: none"> <li>○ Microsoft Visual C++* 6.0 Professional Edition or higher</li> <li>○ Microsoft Visual Studio 6.0 Professional Edition or higher</li> <li>○ Microsoft Visual Studio .NET 2002 or 2003, Professional Edition or higher</li> <li>○ Microsoft Visual C++ .NET 2002 or 2003, Standard Edition or higher</li> </ul> </li> <li>• Microsoft Platform SDK if developing Itanium®-based applications</li> </ul> <p><b>Note:</b> The DLLs in the Platform SDK directory c:\Program files\Microsoft SDK\redist\win64 may also be required at runtime.</p> <ul style="list-style-type: none"> <li>• Microsoft Macro Assembler* (MASM) Version 7.00.9466 or later is required if you want to use options that produce or operate on assembly files.</li> <li>• The Intel® C++ Compiler is not designed to be used in the Watcom* development environment.</li> </ul>

## Develop Applications for Intel® EM64T or AMD Opteron Processor on an IA-32 Processor-based System

Type	Requirements
Hardware	<ul style="list-style-type: none"> <li>• A system based on an IA-32 processor (minimum 450 MHz Intel Pentium II processor or greater - Intel Pentium® 4 recommended), or a system based on an AMD Athlon processor</li> <li>• 512 MB of RAM (1 GB recommended)</li> <li>• 100 MB free hard disk space, plus an</li> </ul>

	additional 200 MB during installation for download and temporary files.
<b>Software</b>	<ul style="list-style-type: none"> <li>Windows* XP professional 64-bit edition or Windows Server* 2003</li> <li>Microsoft Platform SDK</li> </ul> <p><b>Note:</b> The DLLs in the Platform SDK directory c:\Program files\Microsoft SDK\redist\win64 may also be required at runtime.</p>

## Develop Applications for Intel EM64T or AMD Opteron Processor on a System with Intel EM64T

Type	Requirements
<b>Hardware</b>	<ul style="list-style-type: none"> <li>A system based on an Intel® processor with Intel® EM64T or a system based on an AMD Opteron processor</li> <li>256 MB of RAM (512 MB recommended)</li> <li>300 MB of free hard disk space, plus an additional 300 MB during installation for download and temporary files</li> <li>100 MB of hard disk space for the virtual memory paging file. Be sure to use at least the minimum amount of virtual memory recommended by Microsoft Windows*.</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>Microsoft Windows 2000, Windows XP or Windows Server* 2003</li> <li>Microsoft Platform SDK (Build 1289 or later - earlier builds will not work)</li> </ul>

## Develop Applications for Intel EM64T on a System with Intel EM64T

Type	Requirements
<b>Hardware</b>	<ul style="list-style-type: none"> <li>A system based on an Intel® processor with Intel® EM64T</li> <li>256 MB of RAM (512 MB recommended)</li> <li>300 MB of free hard disk space, plus an additional 300 MB during installation for download and temporary files</li> <li>100 MB of hard disk space for the virtual memory paging file. Be sure to use at least the minimum amount of virtual memory recommended by Microsoft Windows*.</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>Windows Server* 2003 Standard x64 Edition, Windows Server 2003 Enterprise x64 Edition and Windows XP Professional x64 Edition are supported</li> <li>Microsoft Platform SDK (Build 1289 or later - earlier builds will not work)</li> </ul>

### Notes:

- The above lists of processor model names are not exhaustive – other processor models correctly supporting the same instruction set as those listed are expected to work. Please contact Intel® Premier Support if you have questions regarding a specific processor model.
- Some optimization options have restrictions regarding the processor type on which the application is run. Please see the documentation of these options for more information.
- Adobe\* Acrobat Reader\* version 4.0 or later is required to view some of the reference

documentation.

It is the responsibility of application developers to ensure that the machine instructions contained in the application are supported by the operating system and processor on which the application is to run. In particular, programs which use Streaming SIMD Extensions require Windows NT\* 4.0 with Service Pack 6 or higher, Windows 2000, or Windows XP or Windows Server 2003, running on an Intel Pentium III processor. The Streaming SIMD Extensions 2 and Streaming SIMD Extensions 3 of the Intel Pentium 4 processor also require one of these operating systems.