Product Support

1601 - Supported / Compatible Compilers for MATLAB 7.1 (R14SP3)

For information on other releases, please select from the choices below:

- *Current Release*
- *Previous Releases*

What Is MATLAB 7.2 (2006a) Built With?

Supported / Compatible Compilers for MATLAB 7.0.4

Architecture	Compiler version
Linux 32	gcc/g++ version 3.4.4
Linux 64	gcc/g++ version 3.4.4
Macintosh	Apple Computer, Inc. version gcc-3.3
Solaris	Sun One Studio 8 C++ 5.5 Patch 113817-06 2004/01/29
Windows (32-bit)	Microsoft Visual C/C++ .NET 2003 (7.1) Professional Edition
Windows (64-bit)	Microsoft Visual C/C++ 2005 (8.0) Professional Edition

MathWorks®

Accelerating the pace of engineering and science

mathworks.com

Microsoft Windows (32-bit)

MATLAB 7.2 (Release 2006a) and Related Products

Microsoft Windows			MATLAB	MATLAB Compiler	MATLAB Builder for .NET	MATLAB Builder for Excel
Compiler	Version	Notes	7.2	4.4	2.0	1.2.6
Microsoft Visual C++ 2005	8.0 Prof. Ed.	1, 2	x	x	x	x
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	1, 2	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	1, 2	x	x	x	x
Microsoft Framework SDK	1.1	**2**			x	
Lcc - Win32	2.4.1		x	x		
Borland C++ Builder	6	3	x	x		
	5	3	x	x		
Borland C/C++ Free Command Line Tools	5.5		x	x		
Intel Visual Fortran	9.0		x			
Compaq Visual Fortran	6.6		x			
	6.1		x			
Intel C/C++	7.1		x			
Open Watcom	1.3		x			

MathWorks®
Accelerating the pace of engineering and science

mathworks.com

Simulink 6.4 (Release 2006a) and Related Products

Microsoft Windows								
			Simulink (S-Functions)	Simulink (Model Referencing)	Simulink Accelerator	Stateflow	Real-Time Workshop	xPC Target
Compiler	Version	Notes	6.4	6.4	6.4	6.4	6.4	2.9
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	1	x	x	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	1	x	x	x	x	x	x
Lcc - Win32	2.4.1		x	x	x	x	x	
Borland C++ Builder	6	3	x		x	x	x	
	5	3	x		x	x	x	
Borland C/C++ Free Command Line Tools	5.5		x		x	x	x	
Intel Visual Fortran	9.0	4	x		x			
Compaq Visual Fortran	6.6	4	x		x			
	6.1	4	x		x			
Intel C/C++	7.1		x		x		x	
Open Watcom	1.3		x		x	x	x	x

MathWorks®
Accelerating the pace of engineering and science

mathworks.com

Microsoft Windows (64-bit)

MATLAB 7.2 (Release 2006a) and Related Products

Microsoft Windows			MATLAB	MATLAB Compiler	MATLAB Builder for .NET
Compiler	Version	Notes	7.2	Not Supported	Not Supported
Microsoft Visual C++ 2005	8.0 Prof. Ed.	1, 5	x		
Microsoft Platform SDK	14.0		x		
Intel Visual Fortran	9.0		x		

Simulink 6.4 (Release 2006a) and Related Products

Microsoft Windows			Simulink (S-Functions)	Simulink (Model Referencing)	Simulink Accelerator	Stateflow	Real-Time Workshop	xPC Target
Compiler	Version	Notes	6.4	6.4	6.4	6.4	6.4	Not Supported
Microsoft Visual C++ 2005	8.0 Prof. Ed.	1	x	x	x	x	x	
Intel Visual Fortran	9.0	4	x		x			

MathWorks®
Accelerating the pace of engineering and science

mathworks.com

Notes for the Microsoft Windows Tables for all MATLAB 7.2 (Release 2006a) and Simulink 6.4 (Release 2006a) Related Products

1. The list that is generated when using the mex -setup and mbuild -setup commands refers to the Microsoft Visual C/C++ .NET 2003 Compiler as Microsoft Visual C/C++ 7.1, and refers to the Microsoft Visual C/C++ 2005 Compiler as Microsoft Visual C/C++ 8.0. Only the Professional Edition of the Microsoft Compiler (version 6.0, 7.1 or 8.0) is officially tested and supported by the MathWorks products.

2. In order to build .NET components, the Microsoft .NET Framework SDK 1.1 must be installed. This product can be downloaded from the Microsoft website: http://msdn.microsoft.com

3. Version 6 of the Borland C++ Builder is packaged with Borland C/C++ Compiler 5.6. Version 5 of the Borland C++ Builder is packaged with Borland C/C++ Compiler 5.5.

4. Fortran compilers are only supported for creating Simulink S-functions using the MATLAB MEX command. The S-functions can be used with normal and accelerated simulations.

5. To use Microsoft Visual Studio 2005 on with MATLAB on 64-bit systems, the "X64 Compilers and Tools" must be chosen for installation during installation of Microsoft Visual Studio 2005.

Exception Handling

When using C++, the MATLAB Compiler relies on the availability of exception handling in the C++ language. Several of the supported compilers do not properly support C++ exception handling. Consequently, our support for exception handling is limited on those platforms.

Macintosh

All MATLAB 7.2 (Release 2006a) and Simulink 6.4 (Release 2006a) Related Products

Macintosh		MATLAB	MATLAB Compiler	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.2	4.4	6.4	6.4	6.4
Absoft f77/f90	8.2a	x		x		
gcc / g++	3.3	x	x	x	x	x

MathWorks®
Accelerating the pace of engineering and science

mathworks.com

UNIX

UNIX / Linux		MATLAB	MATLAB Compiler	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.2	4.4	6.4	6.4	6.4
Linux 32 gcc / g++	3.4.4	x	x	x	x	x
Linux 32 g77	3.4.4	x		x	x	
Linux 64 gcc	3.4.4	x	x	x	x	x
Linux 64 g77	3.4.4	x		x	x	
Solaris cc / CC	5.5	x	x	x	x	x
Solaris gcc	3.2.3	x		x	x	x
Solaris f90	7.1	x		x		

- To determine what compiler you are using in UNIX machines, see Solution 1-1880F.
- gcc is supported on Solaris for MEX-files and Simulink S-functions, but not Engine or MAT-file programs.

Additional Information

- *What products do I need to buy in addition to a compiler?*

Real-Time Windows Target

- Real-Time Windows Target contains a built-in compiler that is shipped with the product. The compiler used is OpenWatcom and Real-Time Windows Target uses this compiler exclusively.

MathWorks®
Accelerating the pace of engineering and science

mathworks.com