Product Support

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

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

- Current Release
- MATLAB 7.4 (R2007a)
- MATLAB 7.3 (R2006b)
- MATLAB 7.2 (R2006a)
- MATLAB 7.1 (R14SP2)
- MATLAB 7.0 (R14)
- MATLAB 6.5 & 6.0
- MATLAB 5.3

What Is MATLAB 7.1 (R14SP3) Built With?

What Is MATLAB 7.1 (R14SP3) Built With?

Architecture	Compiler version
HP-UX	HP aC++ B3910B A.03.37 (B11.11.06)
Linux 32	gcc/g++ version 3.2.3
Linux 64	gcc/g++ version 3.3.2
Macintosh	Apple Computer, Inc. version gcc-3.3
Solaris	Sun One Studio 8 C++ 5.5 Patch 113817-06 2004/01/29
Windows	Microsoft Visual C/C++ .NET 2003 (7.1) Professional Edition

Supported / Compatible Compilers for MATLAB 7.0.4

Microsoft Windows

- MATLAB 7.1 (Release 14SP3) and Related Products
- Simulink 6.3 (Release 14SP3) and Related Products

Macintosh

- All MATLAB 7.1 (Release 14SP3) and Simulink 6.3 (Release 14SP3) Related Products

UNIX

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Microsoft Windows

MATLAB 7.1 (Release 14SP3) and Related Products

Microsoft Windows			MATLAB	MATLAB Compiler	MATLAB Builder for COM	MATLAB Builder for Excel
Compiler	Version	Notes	7.1	4.3	1.1.5	1.2.5
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	3, 4	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	4	x	x	x	x
Lcc - Win32	2.4.1	4	x	x		
Borland C++ Builder	6		x	x		
	5		x	x		
Borland C/C++ Compiler	5.6	1	x	x		
	5.5	1	x	x		
Compaq Visual Fortran	6.6		x			
	6.1		x			
Intel C/C++	7.1	5	x			
Open Watcom	1.3	6	x			

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Simulink 6.3 (Release 14SP3) and Related Products

Microsoft Windows			Simulink (S-Functions)	Simulink (Model Referencing)	Simulink Accelerator	Stateflow	Real-Time Workshop	xPC Target
Compiler	Version	Notes	6.3	6.3	6.3	6.3	6.3	2.8
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	3, 4	x	x	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	4	x	x	x	x	x	x
Lcc - Win32	2.4.1	4	x	x	x	x	x	
Borland C++ Builder	6		x		x	x	x	
	5		x		x	x	x	
Borland C/C++ Compiler	5.6	1	x		x	x	x	
	5.5	1	x		x	x	x	
Compaq Visual Fortran	6.6	7	x		x			
	6.1	7	x		x			
Intel C/C++	7.1	5	x		x		x	
Open Watcom	1.3	6	x		x		x	

Notes for the Microsoft Windows Tables for all MATLAB 7.1 (Release 14SP3) and Simulink 6.3 (Release 14SP3) Related Products

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.

1. The Borland C/C++ Compiler 5.5 is the Borland C/C++ Free Command Line Tools v5.5.

2. The list that is generated when using the mex -setup and mbuild -setup commands refers to the Lcc v2.4.1 Compiler as LCC C v2.4.

3. 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.

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4. Only the Professional Edition of the Microsoft Visual C/C++ Compiler (Version 6.0 or 7.1) is officially tested and supported by the MathWorks products.

5. The Intel C/C++ Compiler is supported only for MATLAB MEX functions, not for use with Engine or MAT routines.

6. Currently, only Beta support is available for this compiler. Please contact Technical Support for more information.

7. Compaq Visual Fortran is only supported for creating Simulink S-functions using the MATLAB MEX command. The S-functions can be used with normal and accelerated simulations.5. The Intel C/C++ Compiler is supported only for MATLAB MEX functions, not for use with Engine or MAT routines.

Macintosh
All MATLAB 7.1 (Release 14SP3) and Simulink 6.3 (Release 14SP3) Related Products

Macintosh		MATLAB	MATLAB Compiler	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.1	4.3	6.3	6.3	6.3
Absoft f77/f90	8.2a	x		x		
gcc / g++	3.3	x	x	x	x	x

UNIX

UNIX / Linux		MATLAB	MATLAB Compiler	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.1	4.3	6.3	6.3	6.3
Linux 32 gcc / g++	3.2.3	x	x	x	x	x
Linux 32 g77	3.2.3	x		x	x	
Linux 64 gcc	3.3.2	x	x	x	x	x
Linux 64 g77	3.3.2	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		
HP-UX cc / aCC	B11.11.06	x	x	x	x	x
HP-UX f90	v2.6	x		x		

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- You must have a native ANSI C compiler for your operating system.
- The bundled C Compiler shipped with HP-UX is not supported because it is not ANSI C compliant. Use the ANSI C Compiler for HP-UX (refer to the Hewlett-Packard Web site for more information).
- 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 is a subset of OpenWatcom 1.1 and Real-Time Windows Target uses this compiler exclusively.

Untested Compilers for MathWorks Products (continued support from previous releases)

The following compilers supported in previous releases have not been tested against this release but will still be distributed:

Borland C++ Builder 2.0, 3.0 and 4.0

Borland C/C++ Compiler 5.0, 5.2, 5.3, and 5.4

Compaq (Digital) Visual Fortran 5.0

Microsoft Visual C/C++ 5.0, 7.0 (Professional Edition)

Watcom C/C++ 11

The MathWorks is committed to supporting newer versions of widely used compilers as they are fully qualified for use with our products. MEX-files built with older versions of a supported compiler might work but have not been tested.

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