

# Product Support

## 1601 - Release 14

### Supported / Compatible Compilers for MATLAB 7.0

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

- Current Release
- MATLAB 7.3 (R2006b)
- MATLAB 7.2 (R2006a)
- MATLAB 7.1 (R14SP3)
- MATLAB 7.0.4 (R14SP2)
- MATLAB 6.0 & 6.1
- MATLAB 5.3

Architecture	Compiler version
HP-UX	HP aC++ B3910B A.03.37 (B11.11.06)
Linux 32	gcc/g++ version 3.2.3
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

What Is MATLAB 7.0 (R14) Built With?

### Supported / Compatible Compilers for MATLAB 7.0

Microsoft Windows

- MATLAB 7.0 (Release 14) and Related Products
- Simulink 6.0 (Release 14) and Related Products

Macintosh

- All MATLAB 7.0 (Release 14) and Simulink 6.0 (Release 14) Related Products

### UNIX

## Microsoft Windows

### MATLAB 7.0 (Release 14) and Related Products

Microsoft Windows			MATLAB	MATLAB Compiler	MATLAB Builder for COM	MATLAB Builder for Excel
Compiler	Version	Notes	7.0	4.0	1.1	1.2
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	4, 5	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	5	x	x	x	x
Lcc - Win32	2.4.1	3	x	x		
Borland C++ Builder	6	1	x	x		
	5	1	x	x		
Borland C/C++ Compiler	5.6	1, 2	x	x		
	5.5	1, 2	x	x		
Compaq Visual Fortran	6.6		x			
	6.1		x			
Intel C/C++	7.1	6	x			

## Simulink 6.0 (Release 14) and Related Products

Microsoft Windows			Simulink	Stateflow	Real-Time Workshop	xPC Target
Compiler	Version	Notes	6.0	6.0	6.0	2.5
Microsoft Visual C/C++ .NET 2003	7.1 Prof. Ed.	4, 5	x	x	x	x
Microsoft Visual C/C++	6.0 Prof. Ed.	5	x	x	x	x
Lcc - Win32	2.4.1	3	x	x	x	
Borland C++ Builder	6	1	x	x	x	
	5	1	x	x	x	
Borland C/C++ Compiler	5.6	1, 2	x	x	x	
	5.5	1, 2	x	x	x	
Compaq Visual Fortran	6.6		x			
	6.1		x			
Intel C/C++	7.1	6	x	x	x	

### Notes for the Microsoft Windows Tables for all MATLAB 7.0 (Release 14) and Simulink 6.0 (Release 14) 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. Borland:

- Borland C++ (all versions) has a restriction on support of goto statements within try / catch blocks. The MATLAB Compiler sometimes generates goto statements for complicated if conditional statements. The generated code for these will not compile in Borland C++; as a result, you must simplify the if condition.
- The -A debugline option is implemented using try / catch statements. Therefore, use of this option is also restricted in the above C++ implementation.

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

3. 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.

4. 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.
5. 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.
6. The Intel C/C++ Compiler is supported only for MATLAB MEX functions, not for use with Engine or MAT routines.

## Macintosh

### All MATLAB 7.0 (Release 14) and Simulink 6.0 (Release 14) Related Products

Macintosh		MATLAB	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.0	6.0	6.0	6.0
Absoft f77/f90	8.2a	x	x		
gcc / g++	3.3	x	x	x	x

## UNIX

UNIX / Linux		MATLAB	MATLAB Compiler	Simulink	Stateflow	Real-Time Workshop
Compiler	Version	7.0	4.0	6.0	6.0	6.0
Linux 32 gcc / g++	3.2.3	x	x	x	x	x
Linux 32 g77	3.2.3	x		x	x	
Solaris cc / CC	5.5	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
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 Product (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 supported compilers as they come out. MEX-files built with older versions of a supported compiler might work but have not been tested.