

MSC.Marc 2005 r3 Build & Supported Platforms

Vendor	OS	Hardware	FORTTRAN Version	C Version	Parallel Enabled	Default MPI	Also Works On
HP-Compaq (DEC) ⁴	Tru64 5.1	Alpha Server 4100	f90 5.5	cc 6.4	yes	HP MPI 2.0 ¹	
HP (64-bit) ^{2, 4}	HPUX 11.0	PA2.0	f90 2.9.2	C.03.50	yes	HP MPI 2.0	
HP (64-bit) ^{2, 4}	HPUX 11.23	Itanium 2	f90 2.8.7	A.06.02	yes	HP MPI 2.1.1	
IBM (64-bit) ⁴	AIX 5.2	RS/6000 & RS/6000 SP	xl f 8.1.1	cc 6.0.0	yes	MPICH ¹	IBM POE 4.1
SGI (mips4 64-bit) ^{2, 3, 4}	IRIX 6.5	R12000	f90 7.4	cc 7.4	yes	MPICH ¹	
SGI (Altix 64-bit) ^{2, 4}	Linux 2.4.21 -sgi303r2	Itanium 2 (Propack 3.0)	Intel 8.1	Intel 8.1	yes	SGI MPT 1.10.1	Propack 4.0
Sun (64-bit) ⁴	Solaris 2.8	UltraSparc III	f90 8.1	cc 5.7	yes	MPICH ¹	
Linux (32-bit)	RedHat 9	Intel Pentium or equivalent	pgf90 5.0-2	gcc 3.2.2	yes	HP MPI 2.1.1	ScaMPI
Linux (32-bit)	RedHat 9	Intel Pentium or equivalent	Intel 8.1	Intel 8.1	yes	HP MPI 2.1.1	RedHat AS 3.0
Linux (64-bit) ⁴	SuSE 9	AMD Opteron	pgf90 5.2-1	gcc 3.3.1	yes	HP MPI 2.1.1	ScaMPI, RedHat AS 4.0
Linux (64-bit) ⁴	RedHat AS 3.0	Itanium 2	Intel 8.1	Intel 8.1	yes	HP MPI 2.1.1	ScaMPI
Linux (64-bit) ⁴	RedHat WS 3.0	Intel EM64T	Intel 8.1	Intel 8.1	yes	HP MPI 2.1.1	RedHat WS 4.0
Intel (32-bit)	Windows 2000	Intel Pentium or equivalent	Compaq Visual Fortran 6.6b	Microsoft Visual C++ 6.0	yes	MP-MPICH	Windows XP
Intel (32-bit)	Windows 2000	Intel Pentium or equivalent	Intel 8.1	Intel 8.1	yes	MP-MPICH	Windows XP, Intel 9.0
Intel (64-bit) ⁴	Windows Server 2003 x64	Intel EM64T	Intel 8.1	Intel 8.1	yes	MPICH2	Windows XP 64

¹ Hardware MPI version also available (via maintain in /tools directory).
² Supports Solver 6.
³ Supports multi-threading.
⁴ Supports true 64-bit version, see [page 18](#) of True 64-bit version of MSC.Marc.

Note: For most platforms, the default MPI setting for this release uses MPICH or HP-MPI, with the option of switching to other specific MPI when so desired. The exceptions are for the following platforms:

SGI ALTIX, HPUX 11.0 (64-bit), and HPUX 11.23 (Itanium 2), where only hardware MPI is available.

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Vendor	OS	Hardware	Also Works On	OpenGL ¹
HP/Compaq/DEC	Tru64 5.1	Alpha Server 4100		y
HP (64-bit)	HPUX 11.0	PA2.0		y
HP (64-bit)	HPUX 11.23	Itanium 2		y
IBM (64-bit)	AIX 5.2	RS/6000		y
SGI (mips4 64-bit) ²	IRIX 6.5	R12000		y
SGI (Altix 64-bit)	Linux 2.4.21 sgi303r2	Intel Itanium 2 (Propack 3.0)	Linux 2.6.5-7 (Propack 4.0)	y
Sun (64-bit)	Solaris 2.8	UltraSPARC III	Solaris 2.9	y
Linux (32-bit) ²	RedHat 9	Intel Pentium or equiv.	RedHat AS 3.0 32-bit	y
Linux (64-bit)	SuSE 9	AMD Opteron		y
Linux (64-bit)	RedHat AS 3.0	Itanium 2	RedHat AS 4.0	y
Intel (32-bit)	Windows 2000	Intel Pentium or equiv.	Windows XP	y
Intel (64-bit)	Windows Server 2003 64-bit	Intel EM64T or AMD Opteron	Windows XP 64-bit	y

¹ See OpenGL Compatibility table on the following page.
² The Solids version of MSC.Marc Mentat is not supported in this build.

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OpenGL Compatibility

When running over a network, the following combinations of client machine (where MSC.Marc Mentat is running) and graphical server (where the user is viewing the program) have been found to work properly using OpenGL:

Client	Server						
	Compaq	HP	IBM	SGI	Sun	Windows ^{1, 2}	Linux ³
HP/Compaq/DEC	y ⁴	n	y	n	y	y	n
HP	y	y	y	y ⁵	y	y	y
IBM	y	y	y	y	y	y	n
SGI	y	y	y	y	y	y	n
Sun	y	y	y	y	y	y	n
Microsoft Windows	n	n	n	n	n	y	n
Linux	y	y	y	n	y	y	y
¹ Requires additional software (see http://www.hummingbird.com or other vendor of X server software).							
² The following OpenGL graphics cards have been found not to work: Compaq PowerStorm 300 and 4D10T STB Velocity 4400 Intense 3D Pro 3410							
³ Requires MesaGL v3.4 or higher.							
⁴ Double buffering not available (4.0D version will not work on 5.x and vice versa).							
⁵ Some buffering problems may occur when changing workspaces.							

Dropped Platforms

The following platforms compiler, and OS have been dropped as of this 2005 r3 release:

- RedHat 7, RedHat AW 2.1
- IBM AIX 4.3.2
- 32-bit ports for IBM, SGI, and Sun

The following platforms and compilers will be dropped in the next release:

- RedHat 9 (Enterprise version 3.x and higher will be supported)
- Compaq Visual Fortran 6.6B