

## Hardware Notes - Pro/ENGINEER Wildfire 3.0

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Platform Support			
Partner	Platform	Operating System levels	CPU
<a href="#">Hewlett-Packard</a>	HP-UX (64-bit only)	11iV1 <sup>a</sup> 11 <sup>b</sup> Quality Pack Bundle March 2002 or later PHSS_30048 Id(1) and linker tools cumulative patch	PA8000 or later
	Linux (32-bit only)	Red Hat Linux Enterprise 3.2 WS Edition	Intel Pentium/Xeon family
<a href="#">Microsoft</a> <a href="#">Dell</a> <a href="#">Fujitsu-Siemens</a> <a href="#">Hewlett-Packard</a> <a href="#">IBM</a> <a href="#">Lenovo</a> <a href="#">TriStar</a> <a href="#">Sun</a>	Windows Vista Business x64 Edition Windows Vista Ultimate x64 Edition Windows Vista Enterprise x64 Edition	Base OS, Service Pack 1	Intel Pentium/Xeon/Core Duo/Core 2 Duo/Quad Core family AMD Opteron Dual Core/Quad Core family
	Windows Vista Business Edition Windows Vista Ultimate Edition Windows Vista Enterprise Edition	Base OS, Service Pack 1	Intel Pentium/Xeon/Core Duo/Core 2 Duo/Quad Core family AMD Opteron Dual Core/Quad Core family
	Windows XP Professional x64 Edition	Base OS, Service Pack 2 and 3	Intel Pentium/Xeon/Core Duo/Core 2 Duo/Quad Core family
	Windows XP Professional Edition Windows XP Home Edition	Base OS, Service Pack 1, 2 and 3	AMD Opteron Dual Core/Quad Core family
	Windows 2000 <sup>c</sup>	Base OS, Service Pack 4	Intel Pentium/Xeon family
	Solaris (64-bit only)	8, 9 and 10	UltraSPARC II or later
<a href="#">Sun</a>	Solaris (64-bit only)	10	Intel and AMD Opteron family
	Linux (32-bit only)	Red Hat Enterprise Linux Workstation 3.2	AMD Opteron family
<b>NOTES</b>			
<sup>a</sup> The command "uname -a" returns "HP-UX 11.11"			
<sup>b</sup> PTC's HP-UX 11.0 support will end in 2006 following HP's plans: <a href="http://www.hp.com/software/releases/releases-media2/discon/0303.htm">http://www.hp.com/software/releases/releases-media2/discon/0303.htm</a>			
<sup>c</sup> PTC suggests the use of Microsoft Windows XP (32-bit), as it has been shown to utilize better memory allocation over Microsoft Windows 2000. Additionally, Microsoft Windows XP (32-bit) also offers users the ability to increase the per-process Memory Limit for Pro/ENGINEER. For more information, please reference <a href="http://www.ptc.com/cs/tpi/111330.htm">http://www.ptc.com/cs/tpi/111330.htm</a> .			
There are currently no plans for supporting Pro/Engineer Wildfire 3.0 on Windows 7.			
There are currently no plans to support Pro/ENGINEER on Windows Vista beyond Service Pack 1.			
Running Pro/Engineer on a server operating system is not supported currently.			

System Requirements					
		Windows (XP and 2000)		UNIX and Linux	
		Minimum	Recommended	Minimum	Recommended
Main Memory		256 MB	1024 MB or higher <sup>a</sup>	256 MB	1024 MB or higher
Available Disk Space	Pro/ENGINEER and Conferencing	2.0 GB	2.5 GB or higher	2.5 GB	3.0 GB or higher
	Pro/ENGINEER and Conferencing with Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0	2.0 GB	3.0 GB or higher	3.0 GB or higher	3.5 GB or higher
Swap Space		500 MB	2048 MB or higher	500 MB	2048 MB or higher
CPU speed		500 MHz	2.4 GHz or higher	See above table for individual vendor processor support	
Internal Browser Support		Microsoft Internet Explorer 8.0 <sup>c</sup> Microsoft Internet Explorer 7.0 <sup>b</sup> Microsoft Internet Explorer 6.0 (SP1 or later)		Browser (Mozilla 1.7.8) is embedded in Pro/Engineer on UNIX platform	
Monitor		1024 x 768 (or higher) resolution support with 24-bit or greater color		1024 x 768 (or higher) resolution support with 24-bit or greater color	
Network		Microsoft TCP/IP Ethernet Network Adapter		TCP/IP Ethernet Network Adapter	
Mouse		Microsoft-approved 3-button mouse		3-button mouse	
File systems		NTFS		All vendor-supported file systems.	
Misc.		CD-ROM or DVD drive		CD ROM or DVD drive	
<b>NOTES</b>					
<sup>a</sup> For Windows XP only. For 32-bit operating systems (including Windows 2000), the Windows limit is 2.0GB. For Windows XP you must enable the /3GB switch in order to utilize RAM greater than 2.0GB.					
<sup>b</sup> Internet Explorer 7.0 support is available for Pro/ENGINEER Wildfire 3.0 M070 and higher					
<sup>c</sup> Internet Explorer 8.0 support is available for Pro/ENGINEER Wildfire 3.0 M220 and higher					

Language Support			
Supported Language	Date Certified	Release Datecode	Comments
English	19-Apr-2005	B000	
Chinese Simplified	08-Mar-2006	F000	<ul style="list-style-type: none"> <li>▪ Not yet available on Linux platform.</li> <li>▪ Available on Windows XP x64 platform as of release datecode M030.</li> <li>▪ Not supported by Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0.</li> </ul>
Chinese Traditional	08-Mar-2006	F000	<ul style="list-style-type: none"> <li>▪ Not yet available on Linux platform.</li> <li>▪ Available on Windows XP x64 platform as of release datecode M030.</li> <li>▪ Not supported by Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0.</li> </ul>
French	19-Apr-2005	B000	
German	19-Apr-2005	B000	
Italian	08-Mar-2006	F000	<ul style="list-style-type: none"> <li>▪ Not supported by Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0.</li> </ul>
Korean	08-Mar-2006	F000	<ul style="list-style-type: none"> <li>▪ Not yet available on Linux platform.</li> <li>▪ Not supported by Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0.</li> </ul>
Japanese	19-Apr-2005	B000	<ul style="list-style-type: none"> <li>▪ Not yet available on Linux platform.</li> </ul>
Spanish	08-Mar-2006	F000	<ul style="list-style-type: none"> <li>▪ Not supported by Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0.</li> </ul>
<b>NOTES</b>			
For more detailed information on localization for this product, please <a href="#">click here</a> .			

## Graphics Information

For 3D-hardware acceleration, an OpenGL graphics card must be used that has been tested in a PTC-certified configuration. To ensure the compatibility of a graphics driver with Pro/ENGINEER Wildfire 3.0, a PTC-certified hardware configuration is recommended.

## Dual Monitor Support

Limited dual monitor support is provided in Pro/ENGINEER Wildfire 3.0 on the Windows platform. PTC has successfully performed limited testing of some graphics card models from 3DLabs, ATI and NVIDIA that support dual monitor capabilities. If your graphics card is certified for Pro/ENGINEER Wildfire 3.0 and provides dual monitor support\*\*, PTC expects that it will run in this mode without issue. PTC will provide limited support to resolve issues arising when running in dual monitor mode, however, the entire solution will not be submitted for formal certification as a complete configuration.

Note: in the event that dual monitor mode fails, we advise use of Span mode as a workaround.

\*\* Please consult with 3DLabs, ATI, NVIDIA, or the hardware platform partner to confirm the availability of this functionality with a given graphics card that has been certified with Pro/ENGINEER Wildfire 3.0.

## Certified and Supported Graphics Cards

PTC provides Customer Support for all certified and/or supported graphics cards. Certified cards will be added to this table as our platform partners complete certifications in preparation for production shipment of Wildfire 3.0.

Please note that the table below represents graphics cards that are part of a fully-certified or supported configuration (e.g., machine, model, operating system, graphics card and driver). PTC does not certify or support graphic cards independently from the configurations in which they are certified or supported.

Supported Graphics Cards				
Partner	Certified Graphics Cards	Certification Details	Supported Graphics Cards	Support Details
3DLabs			Realiz m 800	<a href="#">IBM</a>
			Realiz m 500	<a href="#">IBM</a>
			Realiz m 200	<a href="#">HP</a>
			Realiz m 100	<a href="#">HP</a>
ATI	FireGL V5200	<a href="#">Lenovo</a>	FireGL V5100	<a href="#">HP</a>
	FireGL V7200	<a href="#">Dell, HP</a>	FireGL V3100	<a href="#">Dell, HP, IBM</a>
	FireGL V3400	<a href="#">Dell</a>	MOBILITY FireGL V5000	<a href="#">HP, Fujitsu-Siemens</a>
	FireGL V3300	<a href="#">HP</a>	Fire GL X3	<a href="#">HP</a>
	FireGL V3500	<a href="#">Dell</a>	Fire GL X1	<a href="#">HP</a>
	FireGL V3350	<a href="#">HP</a>	Fire GL4	<a href="#">HP</a>
	FireGL V5100	<a href="#">HP</a>	Fire GL T2-128	<a href="#">HP</a>
	FireGL V5600	<a href="#">HP</a>	Mobility FireGL V3100	<a href="#">Dell</a>
	FireGL V7300	<a href="#">Fujitsu-Siemens</a>	MOBILITY FireGL T2e	<a href="#">IBM</a>
	MOBILITY FireGL v5200	<a href="#">Fujitsu-Siemens, HP, Lenovo</a>	MOBILITY FireGL T2	<a href="#">HP</a>
	MOBILITY FireGL v5250	<a href="#">Lenovo</a>	FireGL V5200	<a href="#">Fujitsu-Siemens</a>
			FireGL V7100	<a href="#">IBM</a>
			FireGL V7300	<a href="#">Fujitsu-Siemens</a>
			MOBILITY FireGL T2e A GP	<a href="#">Fujitsu-Siemens</a>
			MOBILITY FireGL V3200	<a href="#">IBM</a>
		MOBILITY FireGL V5200	<a href="#">Fujitsu-Siemens</a>	
Hew lett-Packard		FireGL-UX	<a href="#">HP</a>	
		VISUALIZE fx10	<a href="#">HP</a>	
NVIDIA	Quadro FX4600	<a href="#">Dell, HP, Lenovo</a>	Quadro FX4500	<a href="#">IBM, SUN, Dell, HP,</a>

				<a href="#">Fujitsu-Siemens</a>
	Quadro FX2500	<a href="#">Dell</a>	Quadro FXGo1400	<a href="#">Dell</a>
	Quadro FX1500	<a href="#">Dell</a> , <a href="#">HP</a>	Quadro FXGo1000	<a href="#">Dell</a>
	Quadro FX3450	<a href="#">Sun</a> , <a href="#">HP</a>	Quadro FXGo700	<a href="#">Dell</a>
	Quadro FX3500	<a href="#">Dell</a> , <a href="#">HP</a>	Quadro FX4400	<a href="#">Dell</a> , <a href="#">TriStar</a> , <a href="#">IBM</a>
	Quadro FX3400	<a href="#">HP</a>	Quadro FX3400	<a href="#">Dell</a> , <a href="#">Fujitsu-Siemens</a> , <a href="#">IBM</a> , <a href="#">HP</a>
	Quadro FX540	<a href="#">HP</a> , <a href="#">Sun</a>	Quadro FX3000	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">Sun</a> , <a href="#">IBM</a>
	Quadro FX3000	<a href="#">Sun</a>	Quadro FX1400	<a href="#">Dell</a> , <a href="#">Fujitsu-Siemens</a> , <a href="#">TriStar</a> , <a href="#">IBM</a> , <a href="#">HP</a> , <a href="#">Sun</a>
	Quadro FX1400	<a href="#">Sun</a> , <a href="#">HP</a>	Quadro FX1300	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">IBM</a>
	Quadro FX1100	<a href="#">Sun</a>	Quadro FX1100	<a href="#">HP</a> , <a href="#">IBM</a> , <a href="#">Sun</a> , <a href="#">Fujitsu-Siemens</a> , <a href="#">Dell</a>
	Quadro FX4500	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">Sun</a> , <a href="#">IBM</a>	Quadro FX1000	<a href="#">Dell</a> , <a href="#">IBM</a>
	Quadro FX560	<a href="#">HP</a>	Quadro FX700	<a href="#">Dell</a>
	Quadro FX550	<a href="#">Dell</a> , <a href="#">IBM</a>	Quadro FX540	<a href="#">TriStar</a> , <a href="#">Sun</a> , <a href="#">HP</a> , <a href="#">Dell</a>
	Quadro FX5500	<a href="#">HP</a> , <a href="#">Sun</a>	Quadro FX350M	<a href="#">Dell</a>
	Quadro FX1500	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">IBM</a> , <a href="#">Fujitsu-Siemens</a> , <a href="#">Fujitsu</a>	Quadro FX330	<a href="#">HP</a>
	Quadro FX1500M	<a href="#">HP</a>	Quadro FX3450	<a href="#">HP</a> , <a href="#">Sun</a> , <a href="#">Fujitsu</a> , <a href="#">Dell</a> , <a href="#">IBM</a>
	Quadro FX1600M	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">IBM</a>	Quadro FX1500	<a href="#">HP</a> , <a href="#">IBM</a> , <a href="#">Fujitsu-Siemens</a>
	Quadro FX1700	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">Sun</a> , <a href="#">Lenovo</a> , <a href="#">Fujitsu-Siemens</a>	Quadro FX2000	<a href="#">HP</a>
	Quadro FX3500	<a href="#">Dell</a> , <a href="#">HP</a> , <a href="#">Sun</a> , <a href="#">IBM</a> , <a href="#">Fujitsu-Siemens</a>	Quadro FX3500	<a href="#">Sun</a> , <a href="#">Fujitsu-Siemens</a>
	Quadro FX3600M	<a href="#">Dell</a>	Quadro FX3700	<a href="#">Fujitsu-Siemens</a>
	Quadro FX360M	<a href="#">Dell</a>	Quadro FX5500	<a href="#">Fujitsu-Siemens</a>
	Quadro FX370	<a href="#">HP</a> , <a href="#">Lenovo</a>	Quadro FX570	<a href="#">Dell</a>
	Quadro FX3700	<a href="#">Dell</a> , <a href="#">HP</a>	Quadro FX570M	<a href="#">Fujitsu-Siemens</a>
	Quadro FX570	<a href="#">Dell</a> , <a href="#">HP</a>	Quadro FX980	<a href="#">Fujitsu-Siemens</a>
	Quadro FX570M	<a href="#">Fujitsu-Siemens</a> , <a href="#">Lenovo</a> , <a href="#">HP</a>	Quadro4 900XGL	<a href="#">IBM</a>
			Quadro4 980XGL	<a href="#">IBM</a>
	XVR-1200	<a href="#">Sun</a>	Elite3D	<a href="#">Sun</a>
Sun			XVR-2500	<a href="#">Sun</a>
			XVR-600	<a href="#">Sun</a>

**Supported Peripherals and Accessories**

	Windows (XP, XP x64, 2000)	Sun Solaris	HP-UX	Red Hat LINUX
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**3D Controllers (Pro/ENGINEER only) Please refer to <http://www.3dconnexion.com/software/> for specific driver information.**

SpaceTraveler	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>
SpaceBall 5000	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>
SpaceNavigator	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>
SpaceNavigator for Notebooks	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>
SpaceExplorer 3DX	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>
SpacePilot 3DX	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>

**Plotters and Printers**

Pro/ENGINEER supports HPGL, HPGL/2, PostScript, Calcomp, Gerber and Versatec standard plotting formats. In addition, Pro/ENGINEER supports the Microsoft Print Manager.

If you do not see your printer/plotter on the list below, please refer to the [Introduction and Support Policy](#).

**Emulation**

Various manufacturers produce printers and plotters that may be compatible with or emulate a device that is supported by PTC. Please be aware that such devices are not tested by PTC and therefore, may not produce correct plotted output. If you are using a device which emulates a printer or plotter listed in the tables below, PTC Technical Support will attempt to provide support by using a similar certified device. Any support pertaining to compatibility with a supported plotter or the correctness of an emulation can only be made by the manufacturers of the device in question, and not by PTC.

The Microsoft Printer Manager creates an emulation of what appears on the screen and attempts to print this. Since this emulation is between the Print Manager driver and the printer/plotter driver, quality and results may vary. You may choose to try a certified PTC printer/plotter driver, which has been optimized for high quality printing.

**Plotters**

	Windows (XP, 2000)	Sun Solaris	HP-UX	Red Hat LINUX
HP Designjet 4500ps	<a href="#">Supported</a>	<a href="#">Supported</a>	<a href="#">Supported</a>	Not Supported or Certified
HP Designjet 1055 CM+	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP Designjet 800PS	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP Designjet 5500PS	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP Designjet copier cc800PS	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP Designjet 4000	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified

**Printers**

	Windows (XP, 2000)	Sun Solaris	HP-UX	Red Hat LINUX
HP deskjet 1220cps	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP color inkjet cp1700ps	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified
HP business inkjet 2600dn	<a href="#">Certified</a>	<a href="#">Certified</a>	<a href="#">Certified</a>	Not Supported or Certified

**Supported MCAD Systems**

You can integrate several MCAD systems with Pro/ENGINEER Mechanica (Structural and Thermal Simulation) Wildfire 3.0. The following table lists the supported MCAD systems and platforms.

Platforms	CATIA Release 4.2.0 (English only)	Unigraphics Release NX 2.0 (English only)
HP (64 bit)	x	x
Intel-based PC (Windows NT, XP, 2000)		x
Sun (64 bit)		x

**NOTES**

### Supported Finite Element Solvers

You can integrate several Finite Element Solvers with Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

Platforms	NASTRAN 2005	ANSYS 10.0
HP (64 bit)	x	x
Intel-based PC (Windows NT, XP, 2000)	x	x
Sun (64 bit)	x	x
<b>NOTES</b>		

### Supported Data Transfer Standards

Pro/ENGINEER Mechanical (Structural and Thermal Simulation) Wildfire 3.0 supports the following standards for transferring data to and from MCAD programs:

Platform	DXF 13.0	IGES 5.2	VDA 2.0
HP (64 bit)	x	x	x
Intel-based PC (Windows NT, 2000, XP)	x	x	
Sun (64 bit)	x	x	x