Hardware Notes - Pro/ENGINEER Wildfire 4.0

Table of Content

Last updated: June 4, 2009

Platform Support			
Partner	Platform	Operating System levels	CPU
Hewlett-Packard	HP-UX (64-bit only)	11iV1 [a]	PA8000 or later
Microsoft ▪ Dell ▪ Fujitsu-Siemens ▪ Hewlett-Packard ▪ IBM ▪ Lenovo ▪ Sun ▪ Fujitsu	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 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 family
	Windows XP Professional x64 Edition	Base OS, Service Pack 2	Intel Pentium/Xeon/Core Duo/Core 2 Duo family AMD Opteron family
	Windows XP Professional Edition; Windows XP Home Edition	Base OS, Service Pack 1,2 and 3	Intel Pentium/Xeon/Core Duo/Core 2 Duo family AMD Opteron family
Sun	Solaris (64-bit only)	8 and 10	UltraSPARC II or later
	Solaris (64-bit only)	10	Intel and AMD Opteron family
NOTES			
[a] The command "uname -a" returns "HP-UX 11.11"			

System Requirements					
		Windows XP, Vista		UNIX	
		Minimum	Recommended	Minimum	Recommended
Main Memory		256 MB	1024 MB or higher	256 MB	1024 MB or higher
Available	Pro/ENGINEER	2.0 GB	2.5 GB or higher [a]	2.5 GB	3.0 GB or higher

Disk Space	Pro/ENGINEER with Pro/ENGINEER Mechanica Wildfire 4.0	2.0 GB	3.0 GB or higher [a]	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 [b] Microsoft Internet Explorer 7.0 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	
NOTES					
[a] For Windows XP only. For 32-bit operating systems, the Windows limit is 2.0GB. For Windows XP you must enable the /3GB switch in order to utilize RAM greater than 2.0GB.					
[b] ONLY for Pro/ENGINEER WildFire 4.0 M090 going forward					

Language Support			
Supported Language	Date Certified	Release Datecode	Comments
English	13-Jun-2007	C000	
Chinese Simplified	13-Jun-2007	C000	
Chinese Traditional		F000	Will be available with the production shipment of Pro/ENGINEER Wildfire 4.0 in early 2008.
French		F000	Will be available with the production shipment of Pro/ENGINEER Wildfire 4.0 in early 2008.
German	13-Jun-2007	C000	
Italian		F000	Will be available with the production shipment of Pro/ENGINEER Wildfire 4.0 in early 2008.
Korean		F000	Will be available with the production shipment of Pro/ENGINEER Wildfire 4.0 in early 2008.
Japanese	13-Jun-2007	C000	
Spanish		F000	Will be available with the production shipment of Pro/ENGINEER Wildfire 4.0 in early 2008.
NOTES			
For more detailed information on localization for this product, please click here.			

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 4.0, a PTC-certified hardware configuration is recommended.

Dual Monitor Support

Limited dual monitor support is provided in Pro/ENGINEER Wildfire 4.0 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 4.0 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 AMD, 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 4.0.

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 4.0.

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. Please consult the linked partner pages for specific configurations.

Supported Graphics Cards	
Graphics Card Partner	Workstation Hardware Partner
AMD (ATI)	Dell
	Fujitsu-Siemens
	HP
	Lenovo
NVIDIA	Dell
	Fujitsu
	Fujitsu-Siemens
	HP
	IBM
	Lenovo
	Sun
HP	HP
Sun	Sun

Supported Peripherals and Accessories

3D Controllers (Pro/ENGINEER only) Please refer to http://www.3dconnexion.com/software/ for specific driver information.

	Windows (XP, XP x64, Vista)	Sun Solaris	HP-UX
SpaceTraveler	Certified	Certified	Certified
SpaceBall 5000	Certified	Certified	Certified
SpaceNavigator	Certified	Certified	Certified
SpaceNavigator for Notebooks	Certified	Certified	Certified
SpaceExplorer 3DX	Certified	Certified	Certified
SpacePilot 3DX	Certified	Certified	Certified

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	Sun Solaris	HP-UX
HP Designjet 1055CM+	Certified	Certified	Certified
HP Designjet 800PS	Certified	Certified	Certified
HP Designjet 5500PS	Certified	Certified	Certified
HP Designjet copier cc800PS	Certified	Certified	Certified
HP Designjet 4000	Certified	Certified	Certified
Printers			
HP deskjet 1220cps	Certified	Certified	Certified
HP color inkjet cp1700ps	Certified	Certified	Certified
HP business inkjet 2600dn	Certified	Certified	Certified

Supported MCAD Systems

You can integrate several MCAD systems with Pro/ENGINEER Mechanica Wildfire 4.0. The following table lists the supported MCAD systems and platforms.

Platforms	CATIA Release 4.2.4 (English only)	Unigraphics Release NX 3.0 (English only)
HP (64 bit)	x	x
Intel-based PC (Windows XP)		x
Sun (64 bit)		x
NOTES		

Supported Finite Element Solvers

You can integrate several Finite Element Solvers with Pro/ENGINEER Mechanica Wildfire 4.0 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

Platforms	NASTRAN 2005 rb3	ANSYS 11.0
HP (64 bit)	x	x
Intel-based PC (Windows XP 32-bit)	x	x
Intel-based PC (Windows XP 64 bit)		x
Sun (64 bit)	x	x
Sun AMD (64 bit)		x
NOTES		

Platform Support for Data Exchange

Processor	Format	Import / Export	Platform				
			Windows XP and Windows Vista (32-bit)	Windows XP and Windows Vista (64 bit)	HP (64 bit)	Sun (64 bit)	Sun AMD (64 bit)
Image Formats							
BMP	*.bmp – Edit via Image Editor, used in style feature as trace sketch, and OLE drawing object, export parts and assemblies via Distributed Pro/BATCH	I/E	Yes	Yes	Yes	Yes	Yes
EPS	*.eps – Save a Copy of parts and assemblies, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes	Yes	Yes	Yes
EXR	*.exr – import via Image Editor	I	Yes	Yes	Yes	Yes	Yes
GIF	*.gif – import via Image Editor, used in style feature as trace sketch	I	Yes	Yes	Yes	Yes	Yes
HDR	*.hdr – import via Image Editor	I	Yes	Yes	Yes	Yes	Yes
JPEG	*.jpg – Edit via Image Editor, used in style feature as trace sketch, Save a Copy of parts and assemblies, export parts, assemblies and drawings via Distributed Pro/BATCH	I/E	Yes	Yes	Yes	Yes	Yes
PDF	*.pdf – Save a Copy of parts, assemblies and drawings, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes	Yes	Yes	No
Picture	*.pic – Save a Copy of parts, assemblies and drawings	E	Yes	Yes	Yes	Yes	Yes
PNG	*.png – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
PTC Bumpmap	*.tx1 – Edit via Image Editor	I/E	Yes	Yes	Yes	Yes	Yes

PTC Color Texture	*.tx4 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
PTC Decal	*.tx3 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
PTC Image	*.imf – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
RGB	*.rgb – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
RLA	*.rla - Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
Shaded Image	*.shd – Edit via Image Editor, Save a Copy of parts and assemblies	I/E	Yes	Yes	Yes	Yes	Yes
SHIMA-SEIKI	*.pic – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
TGA	*.tga – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes	Yes	Yes
TIFF	*.tif – Edit via Image Editor, used in style feature as trace sketch, Save a Copy of parts, assemblies and drawings, export parts and assemblies via Distributed Pro/BATCH	I/E	Yes	Yes	Yes	Yes	Yes
2D Formats							
Adobe Illustrator	*.ai	I	Yes	Yes	Yes	Yes	Yes
CGM	*.cgm	I/E	Yes	Yes	Yes	Yes	Yes
DWG	*.dwg	I/E	Yes	Yes	No	No	No
DXF	*.dxf	I/E	Yes	Yes	Yes	Yes	Yes
IGES	*.igs	I/E	Yes	Yes	Yes	Yes	Yes
Medusa	s.* – Format generated by UNIX on export *.she – Format generated by Windows on export *.asc – (import)	I/E	Yes	Yes	Yes	Yes	No
PDF	*.pdf – Direct drawing export	E	Yes	Yes	Yes	Yes	No
ProductView	*.ed (structure) & *.plt (drawing) *.edz (compressed structure and drawings) *.pvs (structure) & *.plt (drawing) *.pvz (packaged structure and drawings)	E	Yes	Yes	Yes	Yes	Yes
SET	*.set	E	Yes	Yes	Yes	Yes	Yes
STEP	*.stp,– (import/export) *.step – (import)	I/E	Yes	Yes	Yes	Yes	Yes
Stheno	*.tsh	I/E	Yes	Yes	Yes	Yes	No
3D Formats							
ACIS	*.acs	I/E	Yes	Yes	Yes	Yes	Yes
CATIA V4	*.model – (import/export) *.exp, *.session – (import) Requires Interface for CATIA II license	I/E	Yes	No	Yes	Yes	No
CATIA V5	*.CATPart *.CATProduct *.cgr – Facet Only Requires Interface for CATIA V5 license	I/E	Yes	Yes	Yes	Yes	No
DWG	*.dwg – with embedded ACIS	I	Yes	Yes	No	No	No
DXF	*.dxf – with embedded ACIS	I	Yes	Yes	Yes	Yes	Yes
Granite	*.g	I/E	Yes	Yes	Yes	Yes	Yes
JT	*.jt Requires Interface for JT license	I/E	Yes	Yes	Yes	Yes	No
IBL	*.ibl	I	Yes	Yes	Yes	Yes	Yes
ICEM	*.icm	I	Yes	Yes	Yes	Yes	Yes
I-deas	*.mf1 – Model file *.pkg – Package file	I	Yes	Yes	Yes	Yes	No
IGES	*.igs – (import/export) *.iges – (import)	I/E	Yes	Yes	Yes	Yes	Yes
Neutral	*.neu	I/E	Yes	Yes	Yes	Yes	Yes
Optegra visualize	*.gbf Facet Only	E	Yes	Yes	Yes	Yes	Yes
Parasolid 3D	*.xmt, *.xmt_txt, *.x_t, *.xmt_neu, *.x_n *.xmt_bin, *.x_b – (import)	I/E	Yes	Yes	Yes	Yes	Yes

	*.x_t – (export)						
PDF	*.pdf – Direct model export	E	Yes	Yes	Yes	Yes	No
Points	*.pts	I	Yes	Yes	Yes	Yes	Yes
Pro/DESKTOP	*.des *.pdt	I	Yes	Yes	Yes	Yes	Yes
ProductView	*.ed (structure) & *.ol (models) *.edz (compressed structure and models) *.pvs (structure) & *.ol (models) *.pvz (packaged structure and models)	I/E	Yes	Yes	Yes	Yes	Yes
Render	*.slp – Facet Only	E	Yes	Yes	Yes	Yes	Yes
Rhino	*.3dm	I	Yes	Yes	No	No	No
SET	*.set	I/E	Yes	Yes	Yes	Yes	Yes
STEP	*.stp – (import/export) *.step – (import)	I/E	Yes	Yes	Yes	Yes	Yes
STL	*.stl – Facet Only	I/E	Yes	Yes	Yes	Yes	Yes
U3D	*.u3d	E	Yes	Yes	Yes	Yes	No
Unigraphics	*.prt (UG format) Requires UG license and installation	I/E	Yes	Yes	Yes	Yes	No
VDA	*.vda	I/E	Yes	Yes	Yes	Yes	Yes
VRML	*.wrl – Facet Only	I/E	Yes	Yes	Yes	Yes	Yes
Wavefront	*.obj	I	Yes	Yes	Yes	Yes	Yes
ECAD Formats							
Allegro	*.mdb – For board outline files *.mdc – For component placement files *.mdf – For footprint files, such as the ones in component outline libraries	I/E	Yes	Yes	Yes	Yes	Yes
DAZIX	*.edn – Neutral file of the board outline and component placement. Dazix refers to this as a core file. *.edp – Profile file that contains component outlines. Dazix refers to this as a library file	I/E	Yes	Yes	Yes	Yes	Yes
IDF	*.emn – (import/export) *.emp – library file (import)	I/E	Yes	Yes	Yes	Yes	Yes
Neutral	*.nwf	I/E	Yes	Yes	Yes	Yes	Yes
Routed Systems Designer	*.xml	I	Yes	Yes	Yes	Yes	Yes
Visula	*.evs	I/E	Yes	Yes	Yes	Yes	Yes
NOTES							
Object Linking and Embedding (OLE) may provide additional format support but is dependent on operating system (Windows only), installed software components, and third-party support for OLE.							