

FEMAP v11.x - Operating Systems and Minimum Hardware Requirements

Important Notes Regarding 32 bit Windows Operation Systems and Windows XP

Femap v11.1 will be the last release of Femap that will run on 32 bit Windows Operating Systems. All releases after v11.1 will require a 64 bit Windows OS.

- **32-bit NX Nastran 9.0 is not available; FEMAP v11.1 32-bit includes the last 32-bit NX Nastran – v8.5.**

FEMAP v11.1 will be the last release of FEMAP that will run on Windows XP.

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FEMAP v11.x Supported Operating Systems

Operating Systems – FEMAP v11		
	FEMAP	NX Nastran 8.5
Windows XP – 32 bit	Yes ¹	Yes ¹
Windows XP – 64 bit	Yes ¹	Yes ¹
Windows Vista – 32 bit	Yes	Yes
Windows Vista – 64 bit	Yes	Yes
Windows 7 – 32 bit	Yes	Yes
Windows 7 – 64 bit	Yes	Yes
Windows 8.x and Windows 8.x Pro – 64 bit ³	Yes	Yes

Operating Systems – FEMAP v11.1		
	FEMAP	NX Nastran 9
Windows XP – 32 bit	Yes ^{1,2}	No
Windows XP – 64 bit	Yes ¹	No
Windows Vista – 32 bit	Yes ²	No
Windows Vista – 64 bit	Yes	Yes
Windows 7 – 32 bit	Yes ²	No
Windows 7 – 64 bit	Yes	Yes
Windows 8.x and Windows 8.x Pro – 64 bit ³	Yes	Yes

1: Limited support. The OS is no longer being used in development and no support is available from the vendor. An OS upgrade will be required for full support.
FEMAP releases after v11.1 will not run on Windows XP at all.

2: Available by download only. Includes NX Nastran 8.5

3: Windows RT is not supported.

FEMAP v11.x Minimum Hardware Requirements

There are no special hardware requirements for FEMAP beyond those imposed by Windows. The **minimum** requirements are as follows.

- Computer, CPU: Minimum as required for the Windows OS and Video Adapter.
- Memory, RAM: 32 Bit Windows: 2 GB. Windows 32 bit OS are limited to 3 G maximum addressable memory
 64 Bit Windows: 4 GB minimum. At least 8 GB recommended for larger models. More RAM is better for even larger models.
- Video Adapter: See page 4.
- Free Hard Drive space: In addition to the disk space required for the installation of FEMAP and its options as shown in the table below, additional **local** free disk space is required for FEMAP scratch and NX Nastran scratch files.
 A minimum of 10 GB is recommended for small models and can increase rapidly as model size increases. FEMAP model files can range in size from 50 Kb for a file with no entities to greater than 1 GB depending on the number of entities and the results sets.
 NX Nastran scratch and results files for large models can be hundreds of gigabytes.

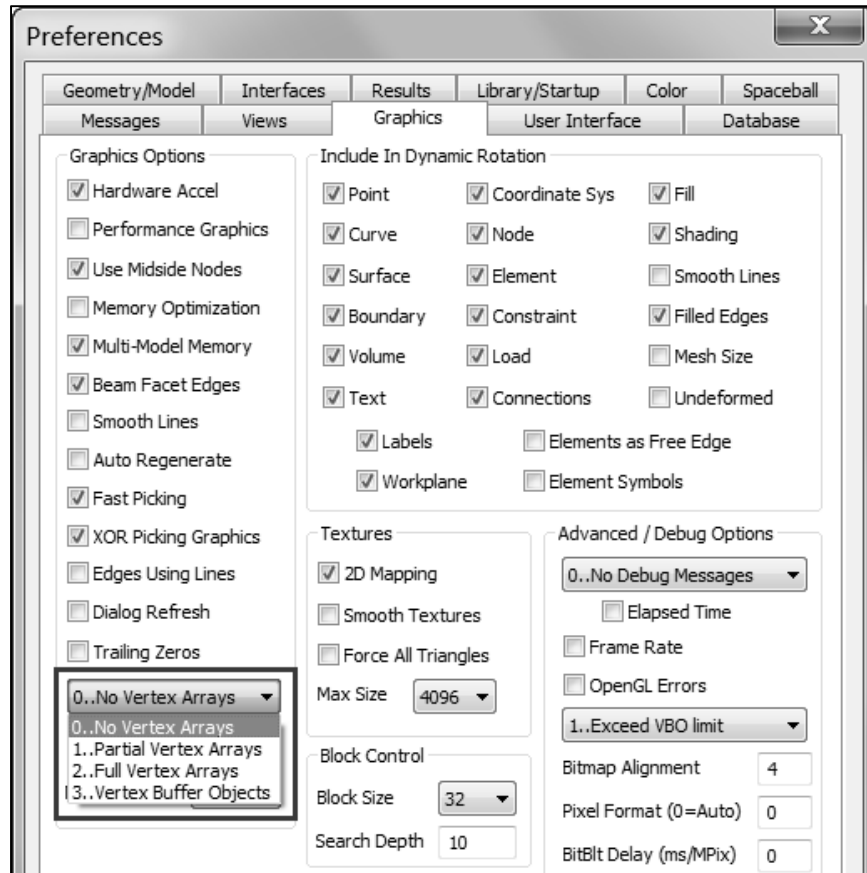
Minimum Free Hard Drive Space Requirements for FEMAP	
Description	Free Disk Space Required
Femap Standalone (including documentation)	800 MB
Femap with NX Nastran (including NX Nastran Documentation)	1,500 MB
Femap Flow/Thermal UI, Solver and Documentation	360 MB
Femap Structural Analysis Toolkit	465 MB
Total – All Options	3,125 MB (3.125 GB)

FEMAP v11.x Video Card Requirements

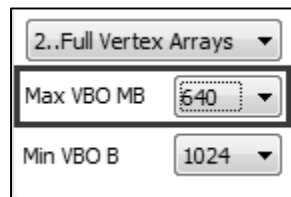
Base Graphics requires an OpenGL video card with a minimum of 512 Mb dedicated graphics memory.

The **VBO Option** requires an OpenGL 2.1 video card or higher.

- Enable VBOs with the **File, Preferences** command. In the *Preferences* dialog box, select the **Graphics** tab, then enable one of the three (3) VBO options from the Vertex Arrays pulldown menu. See Section 2.6.2.3 of the Femap Commands manual for details on these options.



- **MAX VBO** should be set in a range from 50 to 75 percent (%) of the total graphics card memory of the installed graphics card.



FEMAP v11.x Video Card Requirements

- The **Performance Graphics** option requires an OpenGL 4.2 or higher video card. This option improves the graphics performance for Points, Nodes and 2D and 3D elements. Performance Graphics can be combined with the use of Vertex Arrays and VBOs.
- Enable Performance Graphics with the **File, Preferences** command. In the *Preferences* dialog box, select the **Graphics** tab, then, enable the option for **Performance Graphics**.

