

## HyperWorks 11.0 システム要件一覧

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## Platform and Operating System Support

The following table lists the platforms, operating systems, and processors supported by Altair HyperWorks 11.0.

Platforms			Altair HyperWorks 11.0	
OS	Version	Architecture	GUI Products	Solvers <sup>1</sup>
Windows <sup>2</sup>	XP/Vista/7	x86	YES	YES <sup>3</sup>
		x86_64	YES	YES
	Server 2003/2008	x86	NO	YES <sup>3</sup>
		x86_64	NO	YES
Linux <sup>4</sup>	RHEL 5.4 SLED 11	x86	YES	YES <sup>3</sup>
		x86_64	YES	YES
		IA-64	NO	YES
	SGI ProPack 4 (SLES 9) <sup>5</sup>	IA-64	NO	YES
Unix	IBM AIX 5.3	Power 4/5	NO <sup>6</sup>	YES <sup>7</sup>
	Solaris 10	x86_64	NO	YES <sup>8</sup>
**Mac OS X <sup>9</sup>	10.6	x86_64	YES	YES <sup>3</sup>

**\*\* The Mac OS X package will not ship on the release DVD media of HyperWorks 11.0. It will only be available after the release date via the Altair website as a separate downloadable installer package.**

<sup>1</sup> HyperWorks Solver products include RADIOSS, OptiStruct, MotionSolve, and HyperXtrude solver. The HyperWorks solvers support AMD Opteron/Athlon64, Intel EM64T, Itanium2 (non-Windows based) and IBM AIX Power 4/5 processors and system architectures.

RADIOSS and OptiStruct provide H-MPP and SPMD parallelization using 3rd party MPIS and are Intel Cluster Ready compatible and certified.

**NOTE:**

- HTire, FTire and running MotionSolve for the MDL Wizard Library models is only supported on Windows and Linux 32-bit (x86) and 64-bit (x86\_64) platforms.
- HyperWorks Solvers may be available or made available on platforms other than those listed as officially supported. Please contact an Altair regional support office or go to the Altair website under "Contact Us" and submit a query for more details.

<sup>2</sup> HyperWorks 11.0 products have a minimum requirement of the Microsoft Visual C++ 2005 SP1 (version 8.0.50727.4053) and solidThinking/Inspired requires 2008 SP1 (version 9.0.21022.8) redistributable package and these runtimes are distributed within the HyperWorks package. Process Manager, HyperMath and ScriptView are native 32-bit applications that are supported on both 32-bit and 64-bit Windows platforms.

<sup>3</sup> Only SMP parallelization is supported for HyperWorks 11.0 solvers on Windows (x86), Linux (x86) and Mac OS X (x86\_64) architectures.

4 HyperWorks 11.0 Linux requirements (minimum versions):

Kernel version 2.6.9-42

a) RedHat Enterprise Linux 5 Update 2 (2.6.18-53.el5)

b) SUSE Linux Enterprise Desktop 11 (2.6.27.19-5)

GLIBC version 2.3.4 (glibc-2.3.4-2.25) – includes native and compatible 32-bit packages

GCC 3.4.3 (gcc 3.4.3 20050227) – includes native and compatible 32-bit packages

LIBF2C (libf2c-3.4.3-22.1 and compat-libf2c-3.4.3-22.1) – “Fortran G77/G95” runtimes

MotionSolve (HWSolvers) requirement: libgfortran-4.1.0-18.EL4 (32-bit/64-bit) or equivalent

LIBEXPAT – XML library

LIBSTDC++ packages:

a) libstdc++-3.4.3-22.1 (libstdc++.so.6) – 64-bit/32-bit

b) compat-libstdc++-33-3.2.3 (libstdc++.so.5)- 64-bit/32-bit

**NOTE:**

Altair bundles custom Tcl/Tk 8.5.6 packages with HyperWorks 11.0 and sets the environment variable *XLIB\_SKIP\_ARGB\_VISUALS=1* in the startup scripts, which may degrade GUI menu performance. To override this option set the variable *XLIB\_SKIP\_ARGB\_VISUALS=0* within the system's or user's environment.

Additional Linux library packages (minimum versions):

GNU BASH, version 3.00.15(1)-release

POSIX shared memory (for 3D applications)/ELF TLS (thread local storage) libraries

OpenGL packages/libraries (libGL 6.8.2-1, libGLU 6.8.2-1, etc.)

X-org 6.8.2 packages (or XFree86 equivalent) and OpenMotif – libX11, libXm.so.3, libXp.so.6, etc.

Vendor (NVIDIA or AMD/ATI) distributed OpenGL hardware accelerated driver packages

Kernel source/header files (used to compile 3D NVIDIA/AMD ATI OpenGL vendor driver modules)

Tools: rpm/fontconfig/freetype/zlib/gzip/tar/gtar

Gnome 2.6/KDE 3.3 window managers (or higher)

Fonts (scalable): Helvetica, Times, New Century schoolbook, b&h luxi sans/serif, typeface, bitstream vera sans/serif, iso8859-1 (75dpi/100dpi) and Utopia

SDL 1.2.7-8 libraries to run Process Manager

**NOTE:**

HyperWorks Enterprise Explore Dialog and Data Manager Browser are only supported on Windows platforms. HyperCrash does not support Linux 32-bit. HyperWorks 11.0 may install and run on other non-supported Linux distributions but Altair does not test, certify, verify or warrant the reliability of the products on these platforms

a) Altair products are tested on the KDE and Gnome window manager.

b) Xen kernels are currently not supported kernels for Altair HyperWorks 11.0 applications.

5 SGI ProPack 4 is available only for SGI Altix machines.

6 HyperMesh Batch, BatchMesher, Templex and the HyperGraph translator tools will be available in command line execution mode under the IBM AIX5.3 platforms. HyperView translator tool will also be available on Linux Itanium platforms. CAD formats for UG and CATIA v4/v5 data types are not supported under IBM AIX 5.3 for HyperMesh batch programs. HyperXtrude GUI component is included under the HyperWorks GUI supported platforms only.

7 MotionSolve is not supported on IBM AIX platforms.

8 HyperXtrude Solver is not supported on Solaris platforms.

9 Minimum versions for OS X (kernel) and X11 support:

- OS X v.10.6 “Snow Leopard” (Darwin 10.6.0) and X11 2.3.5 (No Mac OS X PowerPC support)

**Unsupported HyperWorks products under the Mac OS X:** HyperCrash, HyperStudy, MotionView, HyperMath/ScriptView, Process Manager and Data Manager.

**Unsupported third party CAD formats under the Mac OS X:** UG, JT, ACIS, Parasolid, ProE, SolidWorks, STEP, CATIA v4/v5 are not available data types under the Mac OS X platform.

**HyperWorks Solvers:** will only support SMP computations on the Mac OS X 10.6 Intel (x86\_64) architecture for HyperWorks 11.0.

Acronym	Description
RHEL	RedHat Enterprise Linux
SLED	SUSE Linux Enterprise Desktop
SLES	SUSE Linux Enterprise Server
MPI	Message Passing Interface
SMP	Symmetric Multi-processing. Processors connect to a single shared main memory.
SPMD	Single Program Multiple Data. Each processor has its own main memory.
H-MPP	Hybrid-Massive Parallel Processing. Hybrid parallelism, in which a SPMD program consists of nodes with several SMP threads.

# System Requirements

## Minimum system requirements for HyperWorks applications

The following table lists the minimum system requirements that are necessary to run any HyperWorks 11.0 32-bit/64-bit application on the supported operating systems and hardware platforms.

	UNIX	Windows
<b>Operating Systems</b>	IBM AIX 5.3 <ul style="list-style-type: none"> <li>• GUI batch mode</li> <li>• HyperWorks Solvers</li> </ul> Linux RHEL 5.2/SLED 11 Sun Solaris 10 (x86_64)	For 32-bit and 64-bit systems: <ul style="list-style-type: none"> <li>• XP/Vista/7</li> <li>• Server 2003/2008</li> </ul> Solvers only
<b>Memory</b>	512 MB (higher recommended)	512 MB (higher recommended)
<b>Complete Install Disk Space</b> <i>**Approximately 6 GB of free disk space is required for temporary install files (TMP) for a complete HyperWorks 11.0 installation in addition to the installed files space needed. The temporary files are removed upon the completion of the installer.**</i>	IBM AIX -> 4.2 GB Linux 32-bit -> 5.8 GB Linux 64 bit -> 6.4 GB Solaris 10 (solvers) -> 621 MB	Windows 32-bit -> 5.5 GB Windows 64-bit ~ 6.2 GB
<b>Graphics Hardware</b>	<ul style="list-style-type: none"> <li>• OpenGL 3D graphics accelerator compatible with OpenGL 1.1 or higher</li> <li>• True color (24-bit) support</li> <li>• Install/update to most recent OpenGL patches/drivers</li> <li>• 1280x1024 screen resolution</li> </ul>	<ul style="list-style-type: none"> <li>• Windows compatible OpenGL graphics adapter compatible with OpenGL 1.1 or higher</li> <li>• 256 MB or higher dedicated video memory</li> <li>• High (16-bit) or True (24-bit) color support</li> <li>• Install/update to most recent OpenGL patches/drivers</li> <li>• 1280x1024 screen resolution</li> </ul>
<b>*Browsers/Online Help (plug-in)</b>	<ul style="list-style-type: none"> <li>• Firefox 1.5 (or higher)</li> <li>• Java Plug in required</li> </ul>	<ul style="list-style-type: none"> <li>• Firefox 1.5 (or higher)</li> <li>• Internet Explorer 7.0 (or higher)</li> <li>• ActiveX plugin required</li> </ul> <i>**Does not support "Protected Mode" under Internet Explorer</i>

**\*NOTE:**

Local Help installs may require modifying the browser to allow running active content from the hard disk. For search capability, the end-user needs a browser supporting either ActiveX (IE on Windows) or Java Environment plugin installed on their machine. For details of Java plugin for Linux, reference the information in the following link:

[http://www.java.com/en/download/help/linux\\_install.xml](http://www.java.com/en/download/help/linux_install.xml)

## **Additional Specifications for Applications**

Additional requirements and limitations:

### **All Applications**

Altair HyperWorks 32-bit applications cannot be launched from within a 64-bit Linux operating system environment. To run Altair HyperWorks on a Linux 64-bit operating system, you must install the 64-bit version of HyperWorks.

### **Data Manager/Assembler/Process Manager**

Altair Data Manager, Assembler, and Process Manager have a dependency on the 32 bit Simple DirectMedia Layer (SDL) Library package when launching on Linux platforms. The path to these libraries should be included in the Linux client's LD\_LIBRARY\_PATH.

The latest list of PC graphics cards that are compatible with HyperWorks is available on the Altair Web site at: <http://www.altairhyperworks.com>.

## Recommended Graphics Boards

The following table lists the recommended CAE/CAD graphic boards for use with the Altair HyperWorks suite of applications. Please note that the most recent vendor drivers should be used and all driver support for these cards should be addressed to the appropriate manufacturer of the graphic board. Performance of HyperWorks may be degraded with compositing desktop effects enabled under Linux.

### Desktop Workstation

Manufacturer	Adaptor Type		Driver Version
	2007-2009	2009-2010	
AMD ATI (Visualization FireGL and FirePro Series)	<b>Ultra High-end</b>	<b>Ultra High-end</b>	Windows XP (x86): 8.773.1
	ATI FireGL V8650	ATI FirePro V9800	Windows XP 64-bit (x86_64): 8.773.1
	ATI FireGL V8600	ATI FirePro V8800	Windows Vista 32-bit (x86): 8.773.1
	ATI FireGL V7700	ATI FirePro V8750	Windows Vista 64-bit (x86_64): 8.773.1
	<b>High-end</b>	ATI FirePro V8700	Windows 7 32-bit (x86): 8.773.1
	ATI FireGL V7600	<b>High-end</b>	Windows 7 64-bit (x86_64): 8.773.1
	<b>Mid-Range</b>	ATI FirePro V7800	Linux 32-bit (x86): 8.773.1
	ATI FireGL V5600	ATI FirePro V7750	Linux 64-bit (x86_64): 8.773.1
	<b>Entry</b>	<b>Mid-Range</b>	<b>The “Altair HyperWorks” profile has been now implemented through AMD/ATI’s AutoDetect technology and will be dynamically and automatically enabled through the Altair HyperWorks product executables.</b>
	ATI FireGL V3600	ATI FirePro V5800	
	ATI FirePro V5700		
	<b>Entry</b>		
	ATI FirePro V4800		
	ATI FirePro V3800		
	ATI FirePro V3750		
	ATI FirePro V3700		
NVIDIA (Quadro FX Series)	<b>Ultra High-end</b>	<b>Ultra High-end</b>	Windows XP (x86): 266.45
	Quadro FX 5600	Quadro FX 6000*	Windows XP 64-bit (x86_64): 266.45
	<b>High-end</b>	Quadro FX 5000*	Windows Vista 32-bit (x86): 266.45
	Quadro FX 4800	Quadro FX 5800	Windows Vista 64-bit (x86_64): 266.45
	Quadro FX 4600	<b>High-end</b>	Windows 7 32-bit (x86): 266.45
	Quadro FX 3700	Quadro FX 4000*	Windows 7 64-bit (x86_64): 266.45
	<b>Mid-Range</b>	Quadro FX 4800	Linux 32-bit (x86): 270.41.06
	Quadro FX 1700	Quadro FX 3800	Linux 64-bit (x86_64): 270.41.06
	<b>Entry</b>	<b>Mid-Range</b>	*These cards are Fermi based cards
	Quadro FX 570	Quadro FX 2000*	<b>The “Altair HyperWorks” profile has now been implemented through nVIDIA’s ACE (Application Configuration Engine) implementation to dynamically set the Altair HyperWorks profile via the application executables.</b>
Quadro FX 370	Quadro FX 1800		
	<b>Entry</b>		
	Quadro FX 600*		
	Quadro FX 580		
	Quadro FX 480		
	Quadro FX 380		

## Laptop Workstation

Laptop Workstations	2007-2008	2009-2010	Driver Version
<b>AMD ATI</b> (FireGL mobility)	FireGL V5200 FireGL V3200	<b>N/A</b>	<b>*NOTE*</b> Please check with manufacturer or laptop vendor OEM for official driver support and for most recent driver updates.
<b>NVIDIA</b> (Quadro FX mobility)	Quadro FX 370M	Quadro FX 5000M Quadro FX 3800M Quadro FX 3700M Quadro FX 2800M Quadro FX 2700M Quadro FX 1800M Quadro FX 1700M Quadro FX 880M Quadro FX 770M Quadro FX 380M	<b>*NOTE*</b> Please check with manufacturer or laptop vendor OEM for official driver support and for most recent driver updates.

NOTE: HyperWorks 11.0 sets the environment variable XLIB\_SKIP\_ARGB\_VISUALS=1 in the startup scripts, which may degrade GUI menu performance. To override this option set the variable XLIB\_SKIP\_ARGB\_VISUALS=0 within the system's or user's environment.

# Linux Graphics Card Known Issues and Limitations

The following document will highlight some known issues and limitations on Linux x86 (32bit) and x86\_64 (64 bit) platforms supported by the Altair HyperWorks 11.0 suite of applications. Please note that the most recent vendor drivers may have the below issues resolved and to check the web pages of [www.nvidia.com](http://www.nvidia.com) and [www.amd.com](http://www.amd.com) for the most recent patches and fixes for your graphics adapter.

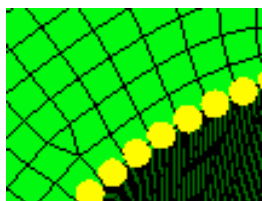
## 1. Does HyperWorks work with Compositing Desktops effects on Gnome and KDE? – Altair Issue numbers 216855 and 216893.

- Yes, however, when the composite extension is enabled via `xorg.conf` or the command line, a new visual is created. This visual is different from the other visuals used by X applications in that it includes an alpha component. KDE/Gnome and other compositing desktop managers use this when desktop effects are enabled. Most X applications ignore the visual since it is not useful to them, including HyperWorks applications, so in the invoke scripts set the variable `XLIB_SKIP_ARGB_VISUALS=1`. Since composite desktops are not enabled by default on most Linux machines, it is not expected that the below issues will be visible by most users.
  - If composite desktop effects are ON and `XLIB_SKIP_ARGB_VISUALS=0` or is not set.
    - ◇ Icons may appear washed out
    - ◇ Flickering and re-draw issues may occur with panels
    - ◇ Multi-windows may fail to refresh when changing from single to multi-window layouts – clicking on the grayed out windows will resolve the refresh issue
    - ◇ Pull-down menus behave normally
  - If composite desktop effects are OFF and `XLIB_SKIP_ARGB_VISUALS=0` or is not set.
    - ◇ Flickering and re-draw issues may occur with panels.
    - ◇ Multi-windows may fail to refresh when changing from single to multi-window layouts – clicking on the grayed out windows will resolve the refresh issue
    - ◇ Pull-down menus behave normally
  - If composite desktop effects are ON and `XLIB_SKIP_ARGB_VISUALS=1`.
    - ◇ Pull-down menus are slow to draw on top of graphics windows (Fix will be in 11.0 SA patch)
    - ◇ All other issues noted above are not seen
- NOTE: to unset the variable simply add the `XLIB_SKIP_ARGB_VISUALS=0` within the user environment and the invoke scripts will be overridden with the user preference.

## 2. Why are selecting nodes within HyperMesh very slow on my Red Hat Enterprise Linux with my NVIDIA Quadro FX? – Altair Issue 219501

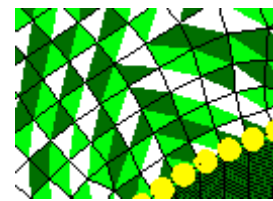
- There was an issue with the NVIDIA drivers prior to version 275.09.01. Please update your driver to that version or higher to resolve the issue.

## 3. Why do the graphics flash or become corrupt in the OpenGL window within HyperMesh when rotating a meshed model or when resizing the window with my AMD FirePro/FireGL card on my Linux platforms? – Altair Issue 220147



← Normal view of mesh

Corruption from driver while rotating →



- This is an AMD driver issue as of release time of Altair HyperWorks 11.0 and was still under

development by AMD. The officially released driver at this time is 8.83.5.4. Please check back with AMD for a newer driver to resolve this issue.

4. **Why can I not run the Altair HyperWorks Installer directly from my DVD media on Linux machines?** –  
*Altair Request 222786*

- On Linux, in order for the installer to work directly off of the DVD-ROM install media, the DVD-ROM device needs executable permissions along with file executable permissions. There are new security implementations that disable auto-mounting DVD-ROM executable device permissions under newer Gnome window managers, by default. Manually change the mounting options to include executable permissions on the device or copy the files to the local hard disk before running the installer.

## Non-US keyboards

HyperWorks ships with the keyboard configuration set for a US keyboard. Other countries (e.g. Germany) use extended keyboards to generate native characters not present in the US ASCII character set. Use the following instructions for your o/s to install a local keyboard configuration.

### Windows XP and Windows XP64

1. On Windows, follow these instructions to configure your non-US keyboard.
2. From the **Start** menu, select **Control Panel**.
3. Select **Regional and Language Options**.
4. Select the **Languages** tab.
5. Click **Details** and select the predefined locale from the drop-down list.
6. Click **OK**.
7. Click **OK** to close the **Regional and Language Options** dialog.

### Windows Vista

Follow these instructions to configure your non-US keyboard on Windows.

1. From the **Start** menu, select **Control Panel**.
2. Select **Clock, Language, and regional Options**.
3. Select **Change keyboards or other input methods** tab.
4. Click **Change Keyboard...** and select the proper one from the drop-down list.
5. Click **OK**.
6. Click **OK** to close the **Regional and Language Options** dialog.

### Windows 7

Follow these instructions to configure your non-US keyboard on Windows:

1. From the **Start** menu, select **Control Panel**.
2. Select **Region and Language**.
3. Select the **Keyboard and Languages** tab.
4. Click **Change keyboards...** and select the proper one from the drop-down list.
5. Click **OK**.
6. Click **OK** to close the dialog.

# RADIOSS Executable List

In version 11, name of executables have been reviewed in order to be more meaningful.

## Double precision

HW platform	Parallel	Starter 11.0	Engine 11.0	radflex	Platform info	Platform release	Old v10 platform
win32	smp	s_11.0_win32.exe	e_11.0_win32.exe	radflex_11_win32.exe	Windows 32 bits, Intel compiler	win32	p4win32
win64	smp	s_11.0_win64.exe	e_11.0_win64.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler	win64	p4win64
win64	hybrid	s_11.0_win64.exe	e_11.0_win64_msmapi.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler, MS MPI	win64 msmapi	p4win64_spmnd
win64	hybrid	s_11.0_win64.exe	e_11.0_win64_plmpi.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler, Platform MPI	win64 plmpi	hpp4win64_spmnd
linux32	smp	s_11.0_pgi_linux32	e_11.0_pgi_linux32	radflex_11_linux32	Linux 32 bits, PGI compiler	linux32 pgi	p4linux9
linux32	smp	s_11.0_linux32	e_11.0_linux32	radflex_11_linux32	Linux 32 bits, Intel compiler	linux32	p4linux932
linux64	smp	s_11.0_linux64	e_11.0_linux64	radflex_11_linux32	Linux 64 bits, Intel compiler	linux64	p4linux964
linux64	smp	s_11.0_pgi_linux64	e_11.0_pgi_linux64	radflex_11_linux32	Linux 64 bits, PGI compiler	linux64 pgi	linux964
linux64	hybrid	s_11.0_pgi_linux64	e_11.0_pgi_linux64_opmpi	radflex_11_linux32	Linux 64 bits, PGI compiler, Open MPI	linux64 pgi opmpi	oplinux964_spmnd
linux64	hybrid	s_11.0_pgi_linux64	e_11.0_pgi_linux64_plmpi	radflex_11_linux32	Linux 64 bits, PGI compiler, Platform MPI	linux64 pgi plmpi	hplinux964_spmnd
linux64	hybrid	s_11.0_linux64	e_11.0_linux64_impi	radflex_11_linux32	Linux 64 bits, Intel compiler, Intel MPI	linux64 impi	p4linux964_spmnd
linux64	hybrid	s_11.0_linux64	e_11.0_linux64_plmpi	radflex_11_linux32	Linux 64 bits, Intel compiler, Platform MPI	linux64 plmpi	hpp4linux964_spmnd
linuxia64	smp	s_11.0_linuxia64	e_11.0_linuxia64	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler	linuxia64	il9
linuxia64	hybrid	s_11.0_linuxia64	e_11.0_linuxia64_plmpi	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler, Platform MPI	linuxia64 plmpi	il9hp_spmnd
linuxia64	hybrid	s_11.0_linuxia64	e_11.0_linuxia64_sgimpi	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler, SGI MPI	linuxia64 sgimpi	il9sgi_spmnd
aix64	smp	s_11.0_aix64	e_11.0_aix64	radflex_11_aix64	AIX 64 bits, IBM compiler	aix64	pwr4
aix64	hybrid	s_11.0_aix64	e_11.0_aix64_aixmpi	radflex_11_aix64	AIX 64 bits, IBM compiler, POE MPI	aix64 aixmpi	pwr4_spmnd
solarisx64	smp	s_11.0_solarisx64	e_11.0_solarisx64	radflex_11_solarisx64	Solaris 64 bits, SUN compiler	solarisx64	sol10x64
solarisx64	hybrid	s_11.0_solarisx64	sol10x64_mpp	radflex_11_solarisx64	Solaris 64 bits, SUN compiler, SUN MPI	solarisx64 sunmpi	sol10x64_spmnd
macosx64	smp	s_11.0_macosx64	e_11.0_macosx64	radflex_11_macosx64	Mac OS/X 64 bits, Intel compiler	macosx	macosx64
black	available executables						
grey	depreciated executables						

## Single precision

HW platform	Parallel	Starter 11.0	Engine 11.0	radflex	Platform info	Platform release
win32	smp	s_11.0_win32_sp.exe	e_11.0_win32_sp.exe	radflex_11_win32.exe	Windows 32 bits, Intel compiler, single precision	win32 sp
win64	smp	s_11.0_win64_sp.exe	e_11.0_win64_sp.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler, single precision	win64 sp
win64	hybrid	s_11.0_win64_sp.exe	e_11.0_win64_msmpi_sp.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler, MS MPI, single precision	win64 msmpi sp
win64	hybrid	s_11.0_win64_sp.exe	e_11.0_win64_plmpi_sp.exe	radflex_11_win32.exe	Windows 64 bits, Intel compiler, Platform MPI, single precision	win64 plmpi sp
linux32	smp	s_11.0_pgi_linux32_sp	e_11.0_pgi_linux32_sp	radflex_11_linux32	Linux 32 bits, PGI compiler, single precision	linux32 pgi sp
linux32	smp	s_11.0_linux32_sp	e_11.0_linux32_sp	radflex_11_linux32	Linux 32 bits, Intel compiler, single precision	linux32 sp
linux64	smp	S_11.0_linux64_pgi_sp	E_11.0_linux64_pgi_sp	radflex11_linux32	Linux 64 bits, PGI compiler, single precision	linux64 pgi sp
linux64	smp	s_11.0_linux64_sp	e_11.0_linux64_sp	radflex_11_linux32	Linux 64 bits, Intel compiler, single precision	linux64 sp
linux64	hybrid	s_11.0_pgi_linux64	e_11.0_pgi_linux64_opmpi_sp	radflex_11_linux32	Linux 64 bits, PGI compiler, Open MPI, single precision	linux64 pgi opmpi sp
linux64	hybrid	s_11.0_pgi_linux64	e_11.0_pgi_linux64_plmpi_sp	radflex_11_linux32	Linux 64 bits, PGI compiler, Platform MPI, single precision	linux64 pgi plmpi sp
linux64	hybrid	s_11.0_linux64_sp	e_11.0_linux64_impi_sp	radflex_11_linux32	Linux 64 bits, Intel compiler, Intel MPI, single precision	linux64 impi sp
linux64	hybrid	s_11.0_linux64_sp	e_11.0_linux64_plmpi_sp	radflex_11_linux32	Linux 64 bits, Intel compiler, Platform MPI, single precision	linux64 plmpi sp
linuxia64	smp	s_11.0_linuxia64_sp	e_11.0_linuxia64_sp	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler, single precision	linuxia64 sp
linuxia64	hybrid	s_11.0_linuxia64_sp	e_11.0_linuxia64_plmpi_sp	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler, Platform MPI, single precision	linuxia64 plmpi sp
linuxia64	hybrid	s_11.0_linuxia64_sp	e_11.0_linuxia64_sgimpi_sp	radflex_11_linuxia64	Linux Itanium 64 bits, Intel compiler, SGI MPI, single precision	linuxia64 sgimpi sp
solarisx64	smp	s_11.0_solarisx64_sp	e_11.0_solarisx64_sp	radflex_11_solarisx64	Solaris 64 bits, SUN compiler, single precision	solarisx64 sp
solarisx64	hybrid	s_11.0_solarisx64_sp	e_11.0_solarisx64_sunmpi_sp	radflex_11_solarisx64	Solaris 64 bits, SUN compiler, SUN MPI, single precision	solarisx64 sunmpi sp
macosx64	smp	s_11.0_macosx64_sp	e_11.0_macosx64_sp	radflex_11_macosx64	Mac OS/X 64 bits, Intel compiler, single precision	macosx sp
black	available executables					
grey	deprecated executables					

## Altair Licensing System 11.0 Supported Platforms

The Altair License Management System 11.0 software is available for download by registered customers from the Altair web site through the Altair Client Center, <http://www.altairhyperworks.com/clientcenter>.

Download the images for the platforms on which you expect to run the license manager and usage report system. If you plan to run the license manager and the usage report system on a different server, download the proper packages for both servers.

Consult the following list to download the right package for your system.

Package Name	Platform Details
altair_licensing_11.0.1.aix_ppc	AIX 5.3 and above on POWER (32bit)
altair_licensing_11.0.1.aix_ppc64	AIX 5.3 and above on POWER (64bit)
altair_licensing_11.0.1.darwin_universal	OS X 10.5 and above on Intel (32bit and 64bit)
altair_licensing_11.0.1.hpux_hppa_ilp32	HP-UX 11.23 on PARISC
altair_licensing_11.0.1.hpux_ia64_lp64	HP-UX 11.23 on IA-64 (Itanium) 64bit
altair_licensing_11.0.1.linux_ia64	RHEL 4,5 and SLES 9,10,11 on IA-64 processors. (64bit)
altair_licensing_11.0.1.linux_x64	RHEL 3,4,5 and SLES 9,10,11 on x86_64 processors. (64bit)
altair_licensing_11.0.1.linux_x86	RHEL 3,4,5 and SLES 9,10,11 on x86 processors. (32bit)
altair_licensing_11.0.1.sunos_sparc	Solaris10 on Sparc (32bit)
altair_licensing_11.0.1.sunos_sparc64	Solaris 10 on UltraSparc (64bit)
altair_licensing_11.0.1.sunos_x64	Solaris 10 on x86_64 (64bit)
altair_licensing_11.0.1.win32_x86	Windows XP, Vista, 7, Server 2003 and Server 2008 on x86 (32bit)
altair_licensing_11.0.1.win64_x64	Windows XP, Vista, 7, Server 2003 and Server 2008 on x64 (64bit)