

Graphics Hardware Certification

Linux® Platform

Last updated: October 1st 2010.

Readme First

The information contained in the [Readme First](#) document applies to all hardware Certifications executed on the Autodesk Media and Entertainment 2011 software product releases and should be acknowledged by all users prior to consulting the Certification charts.

What's New

This certification was done on Autodesk Composite 2011 Subscription Advantage Pack while still supporting the original 2011 version.

Certification on Nvidia®'s new FERMI® cards is almost complete.

AMD® FirePro® Vxxxx is also complete.

Note that missing card's results should come in the upcoming weeks to fill up the charts.

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Linux Certification Kernels

The following table lists the Linux certified kernels for the Composite 2011, Subscription Advantage Pack software product release.

Table Legend

✓	Certified.
👉	Certified with caveats. Refer to the Kernel Caveats & Limitations.
🕒	Certification planned OR in progress. Results coming shortly.
👉	Supported although not officially Certified in our lab.
👉	Hardware component falls below minimum system requirements to run this product.
✗	Certification failed due to serious problems.
○	No Certification planned OR not applicable.
—	Not yet tested.

Linux Certification Kernels for Composite 2011, Subscription Advantage Pack for Linux		
	Red Hat® Enterprise Linux®	Fedora®
	5.5 – 64-bit OS	11 – 64-bit OS
Kernel Version		
✓	2.6.18-194.17.1.el5	2.6.30.10-105.2.23.fc11.x86_64
Xorg Version		
✓	7.1-2	X server 1.6.4-0.1
Glibc Version		
✓	2.5-49.el5_4.3	2.10.2-1.x86_64

Kernel Caveats & Limitations

Fedora 11 ships with the "nouveau" driver enabled by default. Having this driver loaded prevents the NVIDIA driver from loading. Please consult your distribution's documentation on how to disable the nouveau driver before installing the NVIDIA driver.

Graphics Cards

The following table provides the graphics card and driver version hardware certifications for the Composite 2011, Subscription Advantage Pack for Linux software product release.

Important: Although Autodesk tested the NVIDIA GeForce® and ATI™ Radeon™ consumer graphics cards, it is Autodesk, NVIDIA, and AMD policy to only recommend and support the professional NVIDIA Quadro, ATI FirePro, and ATI FireGL graphics family cards. See the NVIDIA Quadro vs. GeForce GPUs White Paper [PDF].

If you have any questions, please contact:

NVIDIA: NVIDIAAutodeskhelp@nvidia.com

AMD/ATI: <http://emailcustomer care.amd.com>

Table Legend

✓	Certified
👉	Certified with caveats. Refer to the Graphics Cards Caveats & Limitations
⌚	Certification planned OR in progress. Results coming shortly
👉	Supported although not officially Certified in our lab
👉	Hardware component falls below minimum system requirements to run this product
✗	Certification failed due to serious problems
●	No Certification planned OR not applicable
☑	Testing is completed.
👁	Testing is completed. Some issues found. Refer to the Graphics Cards Caveats & Limitations.
△	Testing is ongoing OR planned.
⊖	No testing is planned.
—	Not yet tested.

Graphics Card & Driver Certifications for Composite 2011, Subscription Advantage Pack for Linux			
Graphics Card	Driver	Red Hat® Enterprise Linux®	Fedora®
Product	Version	5.5– 64-bit OS	11 – 64-bit OS
NVIDIA®		256.53	256.53
Quadro® 6000		⌚	⌚
Quadro 5000	256.53	✓	✓
Quadro 4000	256.53	✓	✓
Quadro® FX 5800	256.53	✓	✓
Quadro FX 4800	256.53	👉	👉

Graphics Card & Driver Certifications for Composite 2011, Subscription Advantage Pack for Linux			
Graphics Card	Driver	Red Hat® Enterprise Linux®	Fedora®
Product	Version	5.5– 64-bit OS	11 – 64-bit OS
Quadro FX 3800	256.53	☺	☺
Quadro FX 1800	256.53	✓	✓
Quadro FX 4700 X2	256.53	☺	☺
Quadro FX 3700	256.53	☺	☺
Quadro FX 1700	256.53	☺	☺
Quadro FX 5600	256.53	☺	☺
Quadro FX 4600	256.53	☺	☺
Quadro FX 5500	195.36.15	⊖	⊖
Quadro FX 4500 X2	195.36.15	⊖	⊖
Quadro FX 4500	195.36.15	⊖	⊖
Quadro FX 580	256.53	☺	☺
Quadro FX 380	256.53	☺	☺
GeForce GTX 295	—	⊖	⊖
GeForce GTX 285	—	⊖	⊖
GeForce GTS 250	—	⊖	⊖
GeForce 9800 GT	—	⊖	⊖
GeForce 8800 GTS	—	⊖	⊖
GeForce 8800 GT	—	⊖	⊖
GeForce 9600 GT	—	⊖	⊖
GeForce 8600 GT	—	⊖	⊖
AMD™			
FirePro™ V8800	8.743.3.3	✗	✗
FirePro V8750	8.743.3.3	✗	✗
FirePro V8700	8.743.3.3	✗	✗
FirePro V7750	8.743.3.3	✗	✗
FirePro V7700	8.743.3.3	✗	✗
FirePro V5700	8.743.3.3	✗	✗
FirePro V3750	8.743.3.3	✗	✗
FirePro V3700	8.743.3.3	✗	✗
FireGL™ V7700	8.743.3.3	✗	✗

Graphics Card & Driver Certifications for Composite 2011, Subscription Advantage Pack for Linux			
Graphics Card	Driver	Red Hat® Enterprise Linux®	Fedora®
Product	Version	5.5– 64-bit OS	11 – 64-bit OS
FireGL V8650	8.743.3.3	✘	✘
FireGL V8600	8.743.3.3	✘	✘
FireGL V7600	8.743.3.3	✘	✘
FireGL V5600	8.743.3.3	✘	✘
FireGL V3600	8.743.3.3	✘	✘
Radeon HD 4870 X2	—	⊙	⊙
Radeon HD 4870	—	⊙	⊙
Radeon HD 3870	—	⊙	⊙
Radeon HD 3850	—	⊙	⊙
Radeon HD 4650	—	⊙	⊙
Radeon HD 3650	—	⊙	⊙
Radeon HD 3470	—	⊙	⊙
Radeon HD 2600 XT	—	⊙	⊙
Radeon HD 2600 Pro	—	⊙	⊙
Radeon HD 2400 Pro	—	⊙	⊙

Graphics Cards Caveats & Limitations

There are currently no NVIDIA graphics card caveats / limitations to report for the current release of this Autodesk product.

The following table provides a description of professional AMD graphics cards caveats and limitations.

AMD Graphics Cards Caveats & Limitations					
Composite 2011, Subscription Advantage Pack for Microsoft Linux					
Graphics Card	Driver	OS	Caveat / Limitation	Status	Workaround
All AMD cards	8.743.3 .3	Red Hat 5.5 Fedora 11	Crash on startup on LINUX with ATI cards (Bug # 369064)	Issue reported to vendor.	—

Operating System Dependent & Miscellaneous Issues

The Linux operating system is extremely flexible with regards to precise versioning of different components, drivers and libraries. Composite may behave very differently on superficially similar systems and while Autodesk will do our best to help solve problems that are probably due to operating system configuration issues, we may be unable to explain or determine the cause of a problem.

Internally at Autodesk we have stabilized on the following configurations. We provide this list for the purpose of aiding our customers, but we can make no guarantees to the reliability, stability or availability of these components. This is not a complete list of Linux configurations choices. This list includes important components that significantly affect the Composite software.

Due to the many operating system and architecture differences between the supported platforms, the results of some operations will differ on different platforms. This is most noticeable with operations which iterate to reach their results -- leading to cumulatively large difference -- e.g., dynamics, some rendering. You may not be able to "mix and match" renderings on different platforms.

We do not recommend saving data directly from Composite to NFS or other remote mounted file systems. We strongly recommend that you save the files locally and then copy the data to the mounted storage system.

When texture images are stored on systems remote from the rendering process, depending on network speed, specifications and load, it is possible that the renderer may be unable to access a texture file on demand and may 'drop' individual textures on a frame by frame basis. To reduce this occurrence store textures on a system local to the rendering process.

OpenGL Visuals

The Composite choice of OpenGL visuals is RGBA 8/8/8/8 double buffer with depth buffer of 24 where applicable. Visuals available from the XServer can be found using the command `glxinfo`.

If Composite cannot obtain its preferred visual, it will fall back as possible to lower values. A warning will be issued in this case.

Set up the X Server so it is using direct rendering to get as many visuals as possible. Use a depth setting of 24, to enable 8 bits per component.

Window Manager

Certification tests listed in this document have been performed under Gnome 2.16.0 for Red Hat 5.5 and Gnome 2.26.3 on Fedora Core 11. Other window managers are likely to work just fine although they have not been tested and therefore they cannot be listed as "Certified".

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[Survey Link](#)

Please note that we monitor this feedback on a monthly basis. Should you need a faster turnaround time on your question/feedback, please email us at me.3d.certification@autodesk.com.

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