AMD Proprietary Linux Release Notes

This release note provides information on the latest posting of AMD's Proprietary Linux driver. This particular driver updates the software version to 8.582.

The AMD Linux release notes provides information on the following:

- *Web Content*
- *ATI Workstation Product Support*
- *ATI Mobility™ and Integrated Mobility™ Product Family Support*
- *ATI Desktop Product Family Support*
- *Operating Systems Distributions Supported*
- *System Requirements*
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- *Installing the AMD Proprietary Linux Software Driver*
- *Driver Update Notification*
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Web Content

The ATI Catalyst™ Linux Graphics Driver software suite is available through an installer executable.

> **Note:** Refer to the minimum system requirements listed below to ensure you have downloaded the correct driver package for your system.

ATI Workstation Product Support

The ATI Catalyst™ Linux software suite is designed to support the following **ATI** Workstation products:

ATI FirePro V8700	ATI FireGL™ V3600
ATI FirePro V7750	ATI FireGL™ V3400
ATI FirePro V3700	ATI FireGL™ V3300
ATI FirePro V2260	ATI FireGL™ V3200
ATI FireGL™ V8650	ATI FireGL™ V3100
ATI FireGL™ V8600	ATI FireGL™ X3-256
ATI FireGL™ V7700	ATI FireGL™ X3
ATI FireGL™ V7600	ATI FireGL™ X2-256
ATI FireGL™ V7350	ATI FireGL™ Z1-128
ATI FireGL™ V7300	ATI FireGL™ T2-128
ATI FireGL™ V7200	ATI FireGL™ X1-128
ATI FireGL™ V7100	ATI FireGL™ X1-256p
ATI FireGL™ V5600	ATI FireMV™ 2400
ATI FireGL™ V5200	ATI FireMV™ 2250
ATI FireGL™ V5100	ATI FireMV™ 2200 (Single card PCI-e configuration)
ATI FireGL™ V5000	ATI Mobility FireGL™ V5000
ATI FireGL™ V5000	ATI Mobility FireGL™ T2

ATI Mobility™ and Integrated Mobility™ Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following **ATI** Mobility™ products:

ATI Mobility Radeon™ X3870	ATI Mobility Radeon™ X1100
ATI Mobility Radeon™ X3850	ATI Mobility Radeon™ X800
ATI Mobility Radeon™ X3830	ATI Mobility Radeon™ X700
ATI Mobility Radeon™ X3430	ATI Mobility Radeon™ Xpress 1200 series

ATI Mobility Radeon™ X3400	ATI Mobility Radeon™ X600
ATI Mobility Radeon™ X2600	ATI Mobility Radeon™ X300
ATI Mobility Radeon™ X2400	ATI Mobility Radeon™ X200
ATI Mobility Radeon™ X2300	ATI Mobility Radeon™ 9800
ATI Mobility Radeon™ X1800	ATI Mobility Radeon™ 9600
ATI Mobility Radeon™ X1600	ATI Mobility Radeon™ 9550
ATI Mobility Radeon™ X1400	ATI Mobility Radeon™ 9500
ATI Mobility Radeon™ X1300	ATI Mobility Radeon™ Xpress 1100 series
ATI Mobility Radeon™ X1200	ATI Mobility Radeon™ Xpress 200 series

ATI Desktop Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following **ATI** desktop products:

Note: The ATI Radeon™ HD 3870X2 series of product is currently not supported by the ATI Catalyst™ Linux software suite

Note: All-in-Wonder™ variants based on the above are also supported. However, video capture is not supported.

Note: Software driver support for ATI FireGL™, Integrated, Mobility™ and Desktop products prior to the Radeon™ 9500 is available from *www.amd.com*

ATI Radeon™ HD 4870 X2 Series	
ATI Radeon™ HD 4850 X2 Series	ATI Radeon™ X1650 Series
ATI Radeon™ HD 4800 Series	ATI Radeon™ X1600 Series
ATI Radeon™ HD 4670 Series	ATI Radeon™ X1550 Series
ATI Radeon™ HD 4650 Series	ATI Radeon™ X1300 Series

ATI Radeon™ HD 4600 Series	ATI Radeon™ X1050 Series
ATI Radeon™ HD 4550 Series	ATI Radeon™ X850 Series
ATI Radeon™ HD 4350 Series	ATI Radeon™ X800 Series
ATI Radeon™ HD 3800 Series	ATI Radeon™ X700 Series
ATI Radeon™ HD 3600 Series	ATI Radeon™ X600 Series
ATI Radeon™ HD 3400 Series	ATI Radeon™ X550 Series
ATI Radeon™ HD 2900 Series	ATI Radeon™ X300 Series
ATI Radeon™ HD 2600 Series	ATI Radeon™ 9800 Series
ATI Radeon™ HD 2400 Series	ATI Radeon™ 9700 Series
ATI Radeon™ X1950 Series	ATI Radeon™ 9600 Series
ATI Radeon™ X1900 Series	ATI Radeon™ 9550 Series
ATI Radeon™ X1800 Series	ATI Radeon™ 9500 Series

ATI Integrated Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following **ATI** desktop products

ATI Radeon™ HD 3300 Series
ATI Radeon™ HD 3200 Series
ATI Radeon™ 3100 Series
ATI Radeon™ 3000 Series
ATI Radeon™ 2100 Series
ATI Radeon™ Xpress 1150 Series
ATI Radeon™ Xpress 1100 Series
ATI Radeon™ Xpress 200 Series
ATI Radeon™ X1250 Series
ATI Radeon™ X1200 Series
AMD 690 Series Chipset

Operating Systems Distributions Supported

The latest version of the ATI Catalyst™ Linux software suite is designed to support the following Linux distributions:

- Red Hat Enterprise Linux suite
- Novell/SuSE product suite
- Ubuntu

> **Note:** The ATI Catalyst™ Linux software suite may install on a number of other Linux distributions. Refer to the Package Generation installation instructions for more information.

> **Note:** AMD has contributed packaging scripts to allows creation of other packages, but does not necessarily test, verify or warrant the reliability. Currently Red Hat Enterprise Linux suite and Novell/SuSE product suite are supported Linux distributions.

System Requirements

Before attempting to install the ATI Catalyst™ Linux software suite, the following software must be installed:

- XOrg 6.8, 6.9, 7.0, 7.1, 7.2, 7.3 or 7.4
- Linux Kernel 2.6 and above
- glibc version 2.2 or 2.3
- POSIX Shared Memory (/dev/shm) support is required for 3D applications

The ATI Catalyst™ Linux software suite no longer provides precompiled Kernel Modules; all installations require GCC compiler and kernel-headers or kernel-source in order to enable 2D and 3D acceleration.

For best performance and ease of use, AMD recommends the following:

- Kernel module build environment
    - Kernel source code include either the Kernel Source or Kernel Headers packages
- The RPM utility should be installed and configured correctly on your system, if you intend to install via RPM packages
- The following packages must be installed in order for the ATI Catalyst™ Linux driver to install and work properly:
    - XFree86-Mesa-libGL
    - libstdc++
    - libgcc
    - XFree86-libs
    - fontconfig

- freetype
- zlib
- gcc

Resolved Issues

The following section provide a brief description of resolved issues with the latest version of the ATI Catalyst™ Linux software suite. These include:

- Resolved visible corruption when starting MythTV frontend in full screen
- Catalyst Control Center, disabling primary display and re-launching CCC caused a Floating Point Exception
- Google Earth failed to start
- With some ATI adapters the display port monitor was not detected after being hotplugged
- Able to reboot or shutdown when ATI Catalyst Control Center is opened
- Catalyst Control Center, displayed the wrong version using the Information/Driver Version
- No audio output was available through HDMI
- Connecting both a CRT and DFP display device no longer results in the CRT failing to display an image if the DFP is disconnected and then reconnected to the system
- Corruption is no longer seen on secondary display after enabling secondary display Big Desktop
- Sections of the task bar no longer turn black when using the application 'Blender'
- Enemy Territory Quake Wars v1.4, system no longer becomes intermittently unresponsive when game is run.
- Some Open GL application no longer cause segmentation fault with Crossfire and dual head enabled
- Maya crash fixed when using the following settings subinvisions Axis and subinvisions Height are set to 2000
- Tearing no longer occurs during picture-in-picture playback of H.264,VC-1,MPEG2 files on SUSE
- Playing AVI files with Mplayer in full screen no longer causes Mplayer to stop responding
- Resolved, Video does not resize or may appear filled with pink/black when changing from a low to high resolution

Known Issues

The following section provides a brief description of known issues associated with the latest version of ATI Catalyst™ Linux software suite. These issues include:

On Novell's openSUSE, SLED and SLES operating systems running "sax2" or "sax2 -r" on the console overwrites the X.Org configuration file xorg.conf, reverting changes made by running "aticonfig --initial". As a result subsequent X session may start up using the open source Radeon on X-Vesa graphics drivers instead of the proprietary ATI Linux Graphics Driver.

Solution: Do not use Sax2 when the proprietary Linux Graphics Driver is installed. Instead configure all display parameters using the Catalyst Control Center--Linux Edition or the aticonfig command line interface.

- White screens may occur on the extended displays of a with a quad display configuration with 'Xinerama=on'
- Quake4 cannot start after using the load default option
- With both a DFP and CRT connected using the swap monitor option may cause the following error "KDE Panel - The KDE Crash Handler"
- X may fail to start when the driver has been configured with the following command: aticonfig --force-monitor=nocrt1
- RedHat 4.7 hot plugging a display may cause X to shutdown
- Some display corruption may be observed while returning from XServer with two display connected
- Catalyst Control Center, primary display manager may be missing on systems with dual head enabled
- Some systems may fail to restore after returning from hibernation
- Catalyst Control Center, the primary display is not identified when using the Identify Displays button
- X-Server may become unresponsive when hot plugging the display after changing the resolution
- Dual head mode, the mouse cursor cannot move to the secondary displays
- The mouse cursor may fail to render when hot plugging a display in clone mode
- Catalyst Control Center, on some systems X may fails to start when the resolution is set to less than 1680x1050 through displays manager
- With some system configurations Catalyst Control Center may take up to 30 seconds to start
- SUSE 11, No CrossFire confirmation is displayed when running Open GL applications
- Running Specviewperf 9.0.3 in CrossFire mode may causes a segmentation fault and failures in log file.
- When X is killed, the desktop background for the display:0.1 remains
- Screensaver corruption may be observed with 'xinerama on' in multi-head configuration.

- On some CrossFire systems resizing Glxgreas may cause some screen corruption
- Corruption may occur in Maya with a multview configuration using three displays
- Flickering may occur with some screensaver and Flash movies when using either Normal or Extra Visual Effects.
- X-Server may stop responding or shutdown when loading some Open GL applications on a secondary display
- On some systems with RedHat 4.7 and Radeon X1800 the system may fail to start after installing the display driver
- SUSE 10.3 32bit: The operating system may fail to respond when pressing "Ctrl+alt+F7/F8" to switch session when "fgl_glxgears" is running
- Image rendering is not visible and only able to see the blank application window when moving the application a secondary display
- Red Hat 5.2 32bit, KDM X windows may restart when user selects to "Start New Session" during user switch

Installing the AMD Proprietary Linux Software Driver

Installation information can be found at: *www.ati.com/install*

Driver Update Notification

To receive driver notifications, add the following RSS feed to your RSS reader: *http://www.ati.com/online/rss/atilinuxdriver.rss*

Note: In order to receive notifications you will need to have an RSS reader installed.

Linux Feedback Program

The ATI Catalyst™ Linux software suite releases may incorporate suggestions received through the Linux feedback program.
Please refer to *http://apps.ati.com/linuxDfeedback/* to provide us with feedback.