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# Nvidia Binary Driver User Guide for Fedora 21

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## Introduction

During OS installation, the installer will attempt to use the new open source driver (Nouveau) that is included in the X Window package. While this driver works for many hardware configurations, there are several cases where the Nvidia binary driver is required:

- The display adapter is unsupported by the current X Window driver
- High performance 3D acceleration is required

In these cases, the Nvidia binary driver will be pre-installed at the factory. If the operating system is re-installed, the Nvidia driver will need to be installed afterward.

## Installation

The Nvidia binary driver is available as several RPM packages from the RPM Fusion package repository. The packages are built to be compatible with a range of Fedora kernels. To install the Nvidia binary driver, use the following steps:

1. Log in as the root user, or use the **su** command to become root.
2. Enable the RPM Fusion package repository.

```
# yum install http://download1.rpmfusion.org/\
free/fedora/rpmfusion-free-release-21.noarch.rpm
# yum install http://download1.rpmfusion.org/\
nonfree/fedora/rpmfusion-nonfree-release-21.noarch.rpm
```

3. Install the Nvidia display driver packages.

```
# yum install akmod-nvidia xorg-x11-drv-nvidia-libs
```

4. Wait a couple of minutes to allow the driver to be rebuilt for the current kernel.
5. Reboot the system to enable the binary driver.

# Configuration



## Caution

Because the Nvidia binary driver is not supported or included in Fedora Linux, do not use the standard system configuration tools to setup the display. To modify display properties such as screen resolution or color depth, edit the X configuration file manually.

For modern displays, the Nvidia driver will configure itself automatically.

Details about advanced customization of the display driver can be found at the link below:

Nvidia README [[ftp://download.nvidia.com/XFree86/Linux-x86/346.35/README/README.txt](http://download.nvidia.com/XFree86/Linux-x86/346.35/README/README.txt)]

After the Nvidia binary driver has been installed successfully and configured, reboot the computer. After rebooting, proper installation of the binary driver can be verified with the **glxinfo** command.

```
$ glxinfo | grep server
server glx vendor string: NVIDIA Corporation
server glx version string: 1.4
```

# Special Notes

- If the display is not rendered correctly, check the X server messages stored in the systemd journal:

```
# journalctl -e _COMM=Xorg.bin
```

These log entries contain useful information for debugging purposes.

- If the monitor has two connectors (DVI and DB-15), only use one connector when hooking up to the video card.
- Changes in the X configuration file do not take affect until the X Server is restarted.

# Technical Support

Prior to contacting technical support, please visit the ASL online FAQ for quick answers to common hardware and software issues. The answers may be searched by keyword or browsed by category. These documents are maintained with up to date information.

FAQ [<http://faq.aslab.com>]

To request replacement of a defective part (except monitor) on systems under warranty, please send an E-mail to <[techsupport@aslab.com](mailto:techsupport@aslab.com)> with the following information:

- Serial number or invoice number of the system
- Detailed description of the problem
- Shipping address

If the transaction involves multiple systems, ASL highly recommends creating one ticket per system. This will avoid any mixup when the RMA is processed.

Defective monitors will be handled directly by the manufacturer. Here is the contact information:

- Viewsonic: (800) 688-6688 (US and Canada)