

# Kernel Space: Graphics

By *Roy Schestowitz*

Created *10/02/2016 - 1:00am*

Submitted by Roy Schestowitz on Wednesday 10th of February 2016 01:00:38 AM

Vulkan

- [Vulkan in Open-Source](#) [1]

A discussion of the new Vulkan graphics API and its impact on Open-source software

Wayland

- [Wayland Network Transparency Patches Published](#) [2]

For the longest time, when bringing up Wayland a recurring question was "what about network transparency?!" Well, Samsung's Derek Foreman has today published the set of Wayland patches for providing Wayland network transparency by pushing the Wayland protocol over TCP/IP.

- [WOW, Wayland Over Wire!](#) [3]

A common complaint about Wayland is that it isn't network transparent. X allows you to run an application on one computer and display its output on a different computer as long as the application doesn't depend on certain "modern" features (such as the shared memory extension). Applications are forwarded individually and are indistinguishable from apps on the local desktop (network performance considerations aside). This is different than remote desktop protocols like VNC or RDP which provide control of an entire operating system.

X.Org

-

## [X.Org Server 1.18 Gets Its First Point Release, Fixes Multiple XWayland Issues](#) [4]

Today, Adam Jackson of X.Org Foundation has announced the release and immediate availability for download of the first maintenance build in the X.Org Server 1.18 stable series.

X.Org Server 1.18.1 represents the work done by the X.Org project's developers in the last three months, and it is here to address many of the issues reported by users since the release of X.Org Server 1.18.0 on November 9, 2016 (exactly three months ago). Among the highlights, we can mention several XWayland improvements, lots of Glamor patches, as well as some changes in the Present extension and the modesetting driver.

## NVIDIA

- [The GTX 750 Series Still Has Lots Of Problems With Nouveau](#) [5]

- [NVIDIA 361.28 Linux Driver Released, Makes GLVND Optional](#) [6]

The NVIDIA 361.28 release adds a legacy, non-GLVND libGL.so library to the NVIDIA package. This allows distribution packagers to choose between the GLVND and non-GLVND GLX client libraries at install time. The NVIDIA installer itself is defaulting to the legacy library unless `--glvnd-glx-client` is passed at install time. This is being done due to behavior differences with the NVIDIA GLX client driver that isn't defined by the Linux OpenGL 1.0 ABI.

- [Fedora 23 & Nvidia - Are we gonna have a good time?](#) [7]

Well, I have to say I'm pleased with today's task. It went as expected, which is always a good thing. No regressions, no weird stuff. Almost. The FAIL error for one of the easyLife packages is somewhat alarming. If I had not looked at the console output, I might not even have noticed. But I have, and it is ever so slightly worrying me.

However, the end result is, our old laptop is working fine, with the Nvidia drivers in place and all that, and the CPU utilization is a bit lower than with Nouveau, so there's a small bonus to this escapade, too. More importantly, Fedora 23 did not disappoint, and it is a rare beacon of hope in what is otherwise a dreadful distro season for me. To wit, if any one of you is looking for a fresh experience, a little less Ubuntu a little more something else, Fedora 23 could be the right ingredient. We're done. Oh, we shall discuss Fedora and Nvidia again, if you're wondering, so stay tuned.

---

**Source URL:** <http://www.tuxmachines.org/node/85780>

**Links:**

- [1] [https://fosdem.org/2016/schedule/event/vulkan\\_graphics/](https://fosdem.org/2016/schedule/event/vulkan_graphics/)
- [2] [http://www.phoronix.com/scan.php?page=news\\_item&px=Wayland-Network-Transparency](http://www.phoronix.com/scan.php?page=news_item&px=Wayland-Network-Transparency)
- [3] <http://blogs.s-osg.org/wow-wayland-over-wire/>
- [4] <http://news.softpedia.com/news/x-org-server-1-18-gets-its-first-point-release-fixes-multiple-xwayland-issues-500110.shtml>
- [5] [http://www.phoronix.com/scan.php?page=news\\_item&px=GTX-750-Linux-4.5](http://www.phoronix.com/scan.php?page=news_item&px=GTX-750-Linux-4.5)
- [6] [http://www.phoronix.com/scan.php?page=news\\_item&px=NVIDIA-361.28-Linux](http://www.phoronix.com/scan.php?page=news_item&px=NVIDIA-361.28-Linux)
- [7] <http://www.dedoimedo.com/computers/fedora-23-nvidia.html>