

Graphics Stack: PTS, Libinput and NVIDIA 440.26 Beta Linux Driver

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- [Phoronix Test Suite 9.2 Milestone 1 Released With Updates For macOS Benchmarking](#) [2]

The first development snapshot of Phoronix Test Suite 9.2-Hurdal is now available ahead of the stable release later this quarter.

It's been just one month since the big Phoronix Test Suite 9.0 release with a new result viewer, graphing improvements, and other result viewing enhancements and lower-level improvements. With Phoronix Test Suite 9.2 as the Q4'2019 release will be more evolutionary improvements.

- [libinput and tablet pad keys](#) [3]

Upcoming in libinput 1.15 is a small feature to support Wacom tablets a tiny bit better. If you look at the higher-end devices in Wacom's range, e.g. the Cintiq 27QHD you'll notice that at the top right of the device are three hardware-buttons with icons. Those buttons are intended to open the config panel, the on-screen display or the virtual keyboard. They've been around for a few years and supported in the kernel for a few releases. But in userspace, they events from those keys were ignored, casted out in the wild before eventually running out of electrons and succumbing to misery. Well, that's all changing now with a new interface being added to libinput to forward those events.

Step back a second and let's look at the tablet interfaces. We have one for tablet tools (styli) and one for tablet pads. In the latter, we have events for rings, strips and buttons. The latter are simply numerically ordered, so button 1 is simply button 1 with no special meaning. Anything more specific needs to be handled by the compositor/client side which is responsible for

assigning e.g. keyboard shortcuts to those buttons.

- [libinput and button scrolling locks](#) [4]

For a few years now, libinput has provided button scrolling. Holding a designated button down and moving the device up/down or left/right creates the matching scroll events. We enable this behaviour by default on some devices (e.g. trackpoints) but it's available on mice and some other devices. Users can change the button that triggers it, e.g. assign it to the right button. There are of course a couple of special corner cases to make sure you can still click that button normally but as I said, all this has been available for quite some time now.

- [NVIDIA have released the big new Linux Beta driver 440.26 today](#) [5]

Today NVIDIA released the 440.26 Beta driver for Linux with a number of new features, enhancements and a few interesting bug fixes.

- [NVIDIA 440.26 Beta Linux Driver Brings HDMI 2.1 VRR, VP9 VDPAU Decode + Much More](#) [6]

NVIDIA today introduced their first beta driver in the 440 Linux branch and it's quite an exciting release!

The NVIDIA 440.26 Linux beta driver is out this morning and it's bringing with it many new/improved features. There is now VP9 video decoding for VDPAU, HDMI 2.1 VRR for G-SYNC Compatible, and more.

[Graphics/Benchmarks](#)

Source URL: <http://www.tuxmachines.org/node/129431>

Links:

[1] <http://www.tuxmachines.org/taxonomy/term/148>

[2] https://www.phoronix.com/scan.php?page=news_item&px=Phoronix-Test-Suite-9.2-M1

[3] <http://who-t.blogspot.com/2019/10/libinput-and-tablet-pad-keys.html>

[4] <http://who-t.blogspot.com/2019/10/libinput-and-button-scrolling-locks.html>

[5] <https://www.gamingonlinux.com/articles/nvidia-have-released-the-big-new-linux-beta-driver-44026-today.15230>

[6] https://www.phoronix.com/scan.php?page=news_item&px=NVIDIA-440.26-Linux-Driver