

Graphics: AMD, GNOME Shell on Wayland and NVIDIA Nsight Graphics

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[AMD Pushes Back 3rd Gen Threadripper & Ryzen 9 3950X Until November](#) [2]

While the Ryzen 9 3950X and 3rd Gen Ryzen Threadripper processors were reportedly on track for launching in October with updates as of a few weeks ago, today AMD announced a slight delay in launching these new processors.



[AMD have delayed the Ryzen 9 3950X and 3rd generation Threadripper until November](#) [3]

Today, AMD sent out a brief statement about a delay in their 16 core Ryzen 9 3950X and the 3rd generation Threadripper.

[...]

So if you were looking to grab either, keep an eye out in November. Will share any more news when they send it about the expected date and pricing.



[AMD Sends In Initial Batch Of Fixes To Linux 5.4 - Includes Dali Support](#) [4]

While just yesterday the big DRM feature pull was sent in for Linux 5.4, AMD has also volleyed out their initial batch of fixes for this next version of the kernel.

This new AMDGPU pull isn't strictly fixes but as anticipated does include the recently

reported Dali APU support. Dali along with Renoir -- also newly-supported in Linux 5.4 -- are some of AMD's 2020 APUs. Dali will be targeting the lower-end of the spectrum it's expected for value mobile/embedded. From the driver code, Dali looks like a newer revved version of the current-gen Picasso APUs. Both Dali and Renoir are based on the Vega architecture.

- [Linux Plumbers Conference 2019, part 2](#) [5]

Pain points and missing pieces with Wayland, or specifically GNOME Shell:

GNOME Shell is slower

Synergy doesn't work(?) - needs to be in the compositor

With Nvidia proprietary driver, mutter and native Wayland clients get GPU acceleration but X clients don't

No equivalent to ssh -X. Pipewire goes some way to the solution. The whole desktop can be remoted over RDP which can be tunnelled over SSH.

No remote login protocol like XDMCP

No Xvfb equivalent

Various X utilities that grab hot-keys don't have equivalents for Wayland

Not sure if all X's video acceleration features are implemented. Colour format conversion and hardware scaling are implemented.

Pointer movement becomes sluggish after a while (maybe related to GC in GNOME Shell?)

Performance, in general. GNOME Shell currently has to work as both a Wayland server and an X compositor, which limits the ability to optimise for Wayland.

- [NVIDIA's Nsight Graphics 2019.5 Released With Better Vulkan Coverage](#) [6]

NVIDIA this week released Nsight Graphics 2019.5 as the newest feature update to their proprietary developer tool for graphics profiling and debugging across multiple APIs.

The Nsight Graphics 2019.5 release brings support for more than a dozen new Vulkan extensions, a variety of user-interface improvements, compatibility enhancements, and better syntax highlighting.

[Graphics/Benchmarks](#)

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Links:

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

[2] https://www.phoronix.com/scan.php?page=news_item&px=AMD-3rd-Gen-TR-3950X-November

[3] <https://www.gamingonlinux.com/articles/amd-have-delayed-the-ryzen-9-3950x-and-3rd-generation-threadripper-until-november.15059>

[4] https://www.phoronix.com/scan.php?page=news_item&px=AMDGPU-Initial-5.4-Fixes

[5] <https://www.decadent.org.uk/ben/blog/linux-plumbers-conference-2019-part-2.html>

[6] https://www.phoronix.com/scan.php?page=news_item&px=NVIDIA-Nsight-2019.5