

# **GPUs/Graphics: CUDA 10.0, AMDGPU FreeSync and Lima DRM Driver**

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- [CUDA 10.1 Released With Performance Improvements, Lightweight GEMM Library](#) [2]

As the first point release since last year's CUDA 10.0 release, CUDA 10.1 is now available with a new GEMM library and various performance optimizations.

- [AMDGPU FreeSync Has A Last Minute Fix To Help Prevent Stuttering For Linux 5.0](#)[3]

One of the major end-user features of the new Linux 5.0 kernel that is due to be released this weekend is support for FreeSync / Variable Rate Refresh on AMD Radeon GPUs via the mainline AMDGPU driver. There's a last minute fix requested to help prevent stuttering with this long-awaited feature for Linux gamers.

The AMDGPU FreeSync support has largely been in great shape when using the Linux 5.0 mainline kernel now and the latest user-space bits. In the next few days I should hopefully have the time to do a recap of the state and other details to help Linux gamers in making use of this functionality designed to address tearing and stuttering during the rendering of games and other supported applications.

- [Lima DRM Driver Strikes Version Two For Mali 400/450 Open-Source Support](#) [4]

While the Mali 400/450 series era hardware is now 7~11 years old, the revived Lima DRM driver is still being pursued for mainlining in the Linux kernel to offer up open-source support for these once popular Arm graphics generations.

Independent developer Qiang Yu is still working on the Lima DRM driver where Luc Verhaegen left it off several years ago. Qiang Yu believes the code is now ready for mainlining in the Linux kernel while in user-space he has also been nursing a Lima Mesa driver into shape. The Mali 400/450 series hardware is capable of OpenGL ES 2.0.

## [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=NVIDIA-CUDA-10.1-Released](https://www.phoronix.com/scan.php?page=news_item&px=NVIDIA-CUDA-10.1-Released)

[3] [https://www.phoronix.com/scan.php?page=news\\_item&px=AMDGPU-FreeSync-Stutter-Fix](https://www.phoronix.com/scan.php?page=news_item&px=AMDGPU-FreeSync-Stutter-Fix)

[4] [https://www.phoronix.com/scan.php?page=news\\_item&px=Lima-DRM-Driver-V2](https://www.phoronix.com/scan.php?page=news_item&px=Lima-DRM-Driver-V2)