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社区与软件

Mesa 10.4 正式发布

开源 3D/OpenGL 库 Mesa 在短暂延期后发布 10.4 正式版，带来了 Direct3D 9 State Tracker 支持。

本次新版本的变化有：

名为 Gallium Nine 的 Direct3D State Tracker，配合打过补丁的 Wine 及 AMD 开源驱动（不支持

- 重新默认启用 AMD HyperZ。
- 提升 Clover/OpenCL 的性能。
- 显著提升了 Freedreno Gallium3D 驱动的性能。
- Intel Sandy Bridge 上的几何 Shaders 支持。
- 进一步实现了更多 OpenGL 4.X 扩展。

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Linux 3.19-rc1 Kernel Released Ahead Of Schedule

The first release candidate to the [Linux 3.19 kernel](#) was released on Saturday.

As [written about earlier on Phoronix](#), Linus Torvalds decided to close the Linux 3.19 merge window ahead of schedule -- just shy of the 14 days that usually takes place for each Linux kernel merge window.

Linus wrote in the [3.19-rc1 announcement](#), "Considering how much came in fairly late, I find it hard to care about anybody who had decided to cut it even closer than some people already did. That said, maybe there aren't any real stragglers - and judging by the size of rc1, there really can't have been much. Not only do I think there are more commits than there were in linux-next, this is one of the bigger rc1's (at least by commits) historically. We've had bigger ones (3.10 and 3.15 both had large merge windows leading up to them), but this was definitely not a small merge window."

Linux 3.19 is overall another big update in line with earlier releases, "In the 'big picture', this looks like a fairly normal release. About two thirds driver updates, with about half of the rest being architecture updates (and no, the new nios2 patches are not at all dominant, it's about half ARM, with the new nios2 support being less than 10% of the arch updates by lines overall). The remaining one sixth is "misc": networking, header updates, documentation, filesystems, tooling, and core kernel (in pretty much that order)."

For 3.19-rc1 at least, [the kernel remains codenamed the Diseased Newt](#). I've written dozens of articles on Phoronix in recent weeks about Linux 3.19 and on Sunday I should have the time to write my usual feature overview about the most interesting changes I find about this latest cycle; to support Phoronix please consider [subscribing to Phoronix Premium](#) or [making a PayPal tip](#).

X.Org Server 1.16.3 Released To Fix Security Issues

Made public earlier this month was [a huge batch of X.Org Server security vulnerabilities](#) with some of the issues dating back to the late 1980s. Now X.Org Server 1.16.3 is available to address these problems.

Julien Cristau of Debian announced the X.Org Server 1.16.3 release on Saturday morning. The primary focus of this release is on correcting the security issues within the GLX, DIX, XV, DRI3, RENDER, and other areas of the xorg-server code-base affected by outstanding security problems.

The list of changes in xorg-server 1.16.3 can be found via [the release announcement](#).

LLVM 3.6 Will Be Branched Next Month

We're starting to hear details about the LLVM 3.6 release plans.

Hans Wennborg, who is now serving as the new LLVM release manager and part of the Chromium team at Google, has expressed plans to branch LLVM 3.6 from SVN mainline in early January. This would come after the LLVM 3.5.1 release that ships stable bug-fixes on top of LLVM 3.5.

The other developers responding to Wennborg's message are satisfied with a branching in January, which would put the actual LLVM 3.6 release several weeks later. It was also noted that LLVM has been slipping from its traditional six month release cadence to now being more of 7~8 months per release cycle.

There's still hope that Clang 3.6 could have OpenMP support, but besides that there's more AMD GPU back-end improvements, enables C11 mode by default, integrates Go bindings, offers various ARM improvements, and x86/x86_64 has seen its usual improvements too.