

Kernel: 'MacBook', IO_uring and LF's CNCF

By *Roy Schestowitz*

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- [Linux 5.3 Will Surprisingly Support The Newest Keyboard/Trackpads Of Apple MacBooks](#) [2]

As a last minute surprise for the Linux 5.3 kernel merge window is support for the keyboard and trackpads on newer Apple MacBooks and MacBook Pro laptops.

Linux up to now hasn't had mainline support for the keyboard and trackpad on recent years of MacBooks: from MacBook8,1 or later or MacBookPro13 and MacBookPro14 models. These IDs roughly correlate to the MacBook systems since the end of 2015. There hasn't been this Linux support since rather than being exposed as USB devices like all of the other modern laptops, Apple made the strange move of making them SPI devices instead. Beyond that, Apple has never documented its protocol in use with this SPI controller for supporting these keyboards and trackpads.

- [IO_uring Gets A Huge Performance Fix - Up To 755x Improvement](#) [3]

IO_uring is designed to deliver fast and efficient I/O operations thanks to a re-designed interface introduced in Linux 5.1 with various efficiency improvements compared to the kernel's existing asynchronous I/O code. But it turns out there was a big bottleneck within the current IO_uring code up until now.

IO_uring was a big feature of Linux 5.1 though still needs to become more widely adopted. In working on using IO_uring, a developer discovered that I/O submission time drops terribly when registering a large fixed buffer and I/O is being done on the latter pages of that buffer.

- [Carbon Relay Releases Open Source Red Sky Ops to Optimize Application Performance in Kubernetes Environments](#) [4]

Also today, Carbon Relay announced it has joined the Cloud Native Computing Foundation (CNCF) to support the Kubernetes community and commercial use of cloud native technologies.

[Linux](#)

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