Linux Kernel: Linux 5.7, Linux Security and Intel Gen9 Graphics On Linux

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- **AMD Sensor Fusion Hub Laptop Driver Unlikely To Land For Linux 5.7** [2]

  While we were hoping to see the AMD Sensor Fusion Hub driver introduced in Linux 5.7 for improving the AMD Ryzen Linux laptop experience, that now looks quite unlikely.

  This driver has been sought after by AMD Linux laptop customers since 2018 for supporting the accelerometer, gyroscopic sensors, and other functionality on modern AMD laptops, similar to the Intel Sensor Hub. Patches for the AMD Sensor Fusion Hub (AMD-SFH) driver for Linux were posted in January and underwent a few rounds of review.

- **Amazon Engineer's Patch For Flushing L1 Cache On Context Switching Revved** [3]

  Earlier this month there was the proposal by a Linux kernel engineer for Amazon to flush the L1 data cache on context switches as another safeguard against the ever increasing CPU vulnerabilities.

  The motivation for flushing the L1d cache on context switches is driven as a result of Intel's data sampling vulnerabilities and this safeguard would be an opt-in feature for those paranoid about system security. Flushing the L1 cache would ensure the data is not being snooped or leaked following a context switch but with all of the cache flushing could significantly hamper the system performance.

For the very common Intel "Gen9" graphics found on pretty much all current pre-Icelake hardware that is available through retail channels, high dynamic range (HDR) display support could soon be enabled under Linux for a subset of devices.

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