Along with this week's release of QEMU 6.0, exciting on the Linux virtualization front are the KVM changes that are ready to go with the 5.13 kernel.

Linux 5.13 is bringing a number of KVM improvements especially as it pertains to Intel/AMD processor features.

The AMD code in particular has seen some shiny new feature work. The changes for Linux 5.13 do include a new KVM API for supporting AMD Secure Encrypted Virtualization (SEV) live migration of guests. However, the guest API didn't get completed in time for the Linux 5.13 cycle. Also on the AMD SEV front there is now support for AMD SEV virtual machines to share the same encryption context if desired, such as if having multiple VMs spawned by the same user. The AMD code path now supports virtual SPEC_CTRL handling so that the hypervisor doesn't need to intervene for speculation control (SPEC_CTRL_MSR) handling. The AMD code also has improved SYSENTER emulation for the 5.13 kernel.
Clang CFI Support Upstreamed For Linux 5.13 - But Only On ARM64 For Now - Phoronix[3]

Clang’s Control-Flow Integrity provides run-time checks before every indirect function call to ensure the target is a valid function with a valid static type. Clang CFI is implemented as a sanitizer and requires link-time optimizations (LTO) be enabled and thus was blocked until that support first landed in the kernel. Clang CFI can be beneficial at ensuring the intended control flow of the software doesn’t change and generally at a cost of ~1% or less to the run-time performance.

Apple Magic Mouse 2, Microsoft SAM Support Added For Linux 5.13[4]

When it comes to Apple hardware support in the Linux 5.13 kernel not only is support for the Apple M1 SoCs added but the Magic Mouse 2 is also finally being supported in full by the mainline kernel. Plus there are other various interesting HID subsystem updates too this kernel cycle.

As previously reported, the Apple Magic Mouse 2 has worked on Linux with the generic HID input code while there has also been out-of-tree / DKMS module support for this Apple mouse. Now with Linux 5.13, the hid-magicmouse kernel driver is extended to cover the Magic Mouse 2.