

# Toolchains and Kernel MC

## Content

The Toolchains and Kernel micro conference focuses on topics of interest related to building the Linux kernel. The goal is to get kernel developers and toolchain developers together to discuss outstanding or upcoming issues, feature requests, and further collaboration.

Suggested Topics:

- Continuous Integration
- Toolchain Feature Requests
- Rust support
- Outstanding/painful toolchain bugs
- Control Flow Integrity
- Syscall wrapping in glibc.
- Security features in the toolchains

Achievements since last year's LPC:

- linux-toolchains mailing list and archive created.
- Rust-for-linux Github org established. Patches move from out of tree module building, to in tree module building.
- CI for kernel builds with LLVM moved to tuxbuild after an unexpected "no more free lunch" from TravisCI.
- LTO support landed in mainline.
- PGO patches sent upstream.
- At least one bugfix sent found via clang-tidy/clang-analyzer, discussions around driving tree wide cleanups via clang-tidy.
- GCC implemented support for asm goto with outputs
- Support for auto-initialized automatics in GCC is being worked out in GCC upstream. This is one of the security features that were deemed as desirable by the kernel last year. Work on the other missing desired security features is WIP.

## I agree to abide by the anti-harassment policy

I agree

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