Contribution ID: **158**

Type: **not specified**

Security feature parity between GCC and Clang

Tuesday 10 September 2019 11:00 (30 minutes)

There are many security features common to both GCC and Clang, but there is a growing set of features that are missing from GCC and present in Clang, missing from Clang and present in GCC, or missing in both. This session seeks to enumerate and discuss these areas, with the eye toward finding next steps forward (or at least elevating development priority).

Potential areas of focus:
- LTO (especially link speed)
- forward-edge CFI (software and hardware support)
- backward-edge CFI (software and hardware support)
- stack variable auto-initialization
- caller-saved register wipe on function return
- integer overflow detection
- stack clash protection
- implicit fall-through
- memory tagging

I agree to abide by the anti-harassment policy

Yes

Primary author: COOK, Kees (Google)

Presenter: COOK, Kees (Google)

Session Classification: Toolchains MC