Introduction
Userspace

Operating system

BIOS/Firmware

Hardware
System on Chip (SoC)
Many additional cores and components
Userspace
Operating system
BIOS/Firmware
SoC Component Firmware
Hardware
Bringing Open Source closer to the metal
Audio DSP
Audio DSP

Wake on Voice
Multiple microphones
Output enhancement
Open Source for SoC component firmware
Best Practices
Open and Auditable
Developed in the open
Unified codebase for all platforms
Open Source firmware needs
Open Source tools
Compilers
Emulation
System Emulation
+
Device Emulation
Light and Configurable
Secure

Privilege separation
Memory protection
Secure
Privilege separation
Memory protection
Driver architecture supporting firmware innovation
Independently verifiable
Toolchains?
Publish a release number
mkosi
mkosi
chroot
Thanks

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Questions?