

## Tracing & more

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### *Agenda*

**Caveats:** This is not an introduction in the development process of Linux for embedded devices. It definitely presumes basic knowledge of Linux and C.

- 📦 Overview Linux built-in tracing infrastructure
- 📦 Event tracing
- 📦 Filtering of events
- 📦 Tracing of multi-core systems
- 📦 Use of tracer
- 📦 Tracing on function level
- 📦 Recording with “trace-cmd”
- 📦 KPROBES: dynamic kernel trace points
- 📦 UPROBES: dynamic user space trace points
- 📦 Trace analysis with modern GUI

### **Requirement:**

Nothing on Hardware; Programming knowledge with Linux and C

### **Software:**

Linutronix provides an USB HDD with an x86 64-bit based Debian system for the host system, a Debian and a Codesourcery toolchain and for the target system an ARM Linux (running in a virtual machine). The HDD is a gift for the participant and can be taken home for further studies.

### **Number of participants:**

Due to our experience we know that a single instructor could coach a maximum of 6 persons. Our courses are therefore limited to this number of individuals.