



Training Real-Time Tracing and Debugging

Day 1

- 📁 Introduction to Linux and real-time (Preempt-RT patch)
- 📁 Introduction to Linux tracing infrastructure
- 📁 Debugging applications with Uprobe and performance counters
- 📁 Analysis of latency problems with cyclictst und the Linux infrastructure
- 📁 Latency debugging in userspace and kernel
- 📁 Identification of hardware related latency problems
- 📁 Short intro of graphical based tools (kernelshark, trace compass)

Requirement:

Nothing on Hardware; Programming knowledge with Linux and C



Agenda Efficient Debugging

Software:

Linutronix provides an USB HDD with an x86 64-bit based Debian system for the host system, a Debian toolchain and for the target system an ARM Linux, running on a running on an embedded device. 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.