



Training Efficient Debugging

Day 1

- 📁 Introduction to Linux tracing infrastructure
- 📁 Tools and libraries for application debugging (uprobe, performance counters)
- 📁 Interfaces, tools, and methods for kernel debugging
- 📁 Remote debugging (applications and kernel)
- 📁 Analysis of latency problems with cyclictst und the Linux infrastructure
- 📁 Short intro of graphical based tools (trace compass)
- 📁 Hands-on exercises debugging a remote board
- 📁 "Best practice" recommendations for development

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 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.

The „Embedded Device“ is an ARM virtual machine and is provided for this course by Linutronix GmbH.