

Realtime: Tracing & Debug

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.

- 📄 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

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.