

Training Linux and Real-Time (Preempt-RT)

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.

- 📦 Real-time – how is it defined? Do I need real-time?
- 📦 Overview Linux and real-time: different approaches, applications, results
- 📦 Introduction to the Linux real-time patch (Preempt-RT)
- 📦 Configuration of Linux with real-time: Interrupt priorities ...
- 📦 Real-time Linux system – evaluation (load scenarios, test tools...)
- 📦 How to develop a real-time application with Preempt-RT

Requirement:

Nothing on Hardware; Programming knowledge with Linux and C

Hands-On:

Latency measurement with `cyclictst` and analysis of results; definition and generation of work-load with tools like „`hackbench`“

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.