Training Real-Time (Preempt-RT) Programming

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

Day 1

- ☐ 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 cyclictest 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 8 persons. Our courses are therefore limited to this number of individuals.