Compact Embedded Linux



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Processor based embedded Linux systems like AMD Zynq™ and others Requirements

Basic knowledge of Linux as an operating system
Basic knowledge of Makefiles and C-programming

Contact

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Fee (net per person)

€ 2,300

OL € 1,900

Training material

Duration

3 days

Plus beverages di

Inclusive

Plus beverages during breaks

3 days

Workshop

To harness the full power of advanced electronic devices such as FPGAs, developing processor-based embedded systems with Linux is an outstanding option.

Developers face the challenge to develop their own embedded Linux system for a specific hardware platform. In this seminar, the participants will learn how to create and customize the components of an embedded Linux system and how to create a Linux system tailored to their specific applications. All aspects like development toolchains, bootloader, root file system, and Linux kernel for embedded systems will be covered. These components will be configured, compiled, and used by the participants. Only free tools like the GNU compiler, U-Boot boot-

loader, or BusyBox are used. This course is hands-on, so each section will conclude with an exercise to gain a deeper understanding of the training material.

The target platform for this training is the AMD Zynq™, but the tools and techniques learned can also be applied to other technologies such as processor systems.

Due to accompanying exercises, the course offers in-depth and practice-oriented training. Attendees of the online live course will do the practical exercises in the afternoon on their own.

Agenda

01. Introduction

Course objectives Linux background

02. Linux components for an embedded system

Configuring the bootloader Device tree 03. Linux kernel architecture

Linux root filesystem concept Using the console Memory devices Cross compiler and libraries

04. BusyBox

Init system

Device files and utilities



