

Training Introduction Yocto

Agenda 2 day course

Day 1:

- ☐ What is YOCTO / and what it is not (short overview)
- ☐ Short introduction to “git“
- ☐ YOCTO and git
- ☐ YOCTO layers, shown on the example of Poky and Beaglebone Black (Texas Instruments)
- ☐ Generate an Uboot image for booting the device
- ☐ Generate a SDCard image boot Linux
- ☐ Generate a cross-toolchain for Beaglebone Black

Day 2:

- ☐ Integrate your own applications (makefile, autotools, QT, cmake) in YOCTO (define your own layer)
- ☐ Build your own kernel and integrate him in Yocto
- ☐ Device tree and YOCTO

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 and a Codesourcery toolchain and for the target system an ARM Linux, running on a Beaglebone board. 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 based Eval-Board (Beaglebone Black) and is provided for this course by Linutronix GmbH.