Lecture 7

Topics

The topics for this lecture with programmable electronics are:

- Simulation
- Good practice in a HDL and hardware
- Timing
- Implementation of advanced framework

Hardware

You can borrow the required hardware from us, one pr group.

- Zynq platform: DIPFORTy1 "Soft Propeller" TE0722[1] from Trenz electronics.
- Programmer: XMOD FTDI JTAG Adapter[2] from Trenz electronics.
- FTDI 3.3 V cable

Preparation

Unity link and TosNet
(Mandatory)
Read and understand “Generic Addressable Bus Link.pdf”

(Supplementary)
Unity.pdf
Clawar2010_final_simon.pdf
Tosnet_teaching_final.pdf

DAC
(Mandatory)
Read and understand “sigma_delta.pdf”
If needed find you own materials for PWM

Assignment

Will be uploaded to dropbox before the lecture.

[1] https://shop.trenz-electronic.de/en/TE0722-02-DIPFORTy1-Soft-Propeller-with-Xilinx-Zynq-7010-and-16-MByte-Flash?c=348
[2] https://shop.trenz-electronic.de/en/TE0790-02-XMOD-FTDI-JTAG-Adapter-Xilinx-compatible?c=318