Motivation

Software most complex component of critical systems

Monday

- Introduction
- Micro-architectures
  - CPUs, busses, memory, caches
- Assembler
  - x86 vs. MIPS, ARM

Tuesday

- Labview
  - Done by Alessandro Abate
  - Start at 9:30, prompt!
  - Not in LR7, but in the lab.

Outline

Motivation

Overview of the Week

Reading

How?
What?

There is more. I am not covering

- Tools for project management
- Requirements
- DSPs and other highly deterministic CPUs
- SoCs
- Power management
- GPUs or vector units
- FPGAs
- ...

No background assumed on any of these either.
Schedule

Lectures: MT week 6 Mo–Fr 10–12, LR7
Labs: MT week 6 Mo–Fr 14–16

Labs

▸ Run by John Galea
▸ DPhil in CS (Cybersecurity CDT)
▸ He has emailed you!

Assessment

▸ Assessment is by report
▸ Due Monday week 7
▸ Primarily cover what you have done, i.e., your labs, and the lab sheets
▸ You can skip the trivial stuff
▸ You can skip Tuesday’s stuff