

Computer Systems and Architecture

Introduction

Bart Meyers

University of Antwerp

September 25, 2012

CS&A - Practical information

- ▶ Two parts:
 - ▶ Computer Systems
 - ▶ Computer Architecture
- ▶ Tuesday, 13:45 - 18:00
- ▶ Continuous assessment (more than 50%)
- ▶ Assistants: Bart Meyers
(G3.17, Bart.Meyers@ua.ac.be),
Quinten Soetens
(G3.04, Quinten.Soetens@ua.ac.be)

Computer Systems

- ▶ Weekly exercises on:
 - ▶ UNIX
 - ▶ Data representation
 - ▶ MIPS
- ▶ Individual
- ▶ Weekly submission of solutions via Blackboard
 - ▶ tgz archive with oefeningen.html and scripts, screenshots, MIPS-files etc.
 - ▶ Strict deadline!
- ▶ MARS
 - ▶ MIPS Simulator
 - ▶ <http://courses.missouristate.edu/KenVollmar/MARS/>

Computer Architecture

- ▶ Weekly projects on the construction of a processor architecture, beginning at the level of logic gates and ending with a complete datapath
- ▶ Pairs of 2 students
- ▶ Report via Blackboard
- ▶ Evaluation during the semester
 - ▶ Three times (week 7, 10 and 13)
 - ▶ Demo
 - ▶ Feedback
- ▶ Logisim
 - ▶ Educational tool for designing and simulating digital logic circuits
 - ▶ <http://ozark.hendrix.edu/~burch/logisim/>

Groups

- ▶ Find someone you want to work with
- ▶ Subscribe to a group on Blackboard
- ▶ Before the next Lab session (week 3)!

Fraud

- ▶ Academic honesty: Work submitted for grading **MUST** ultimately be your own work, reflecting your learning and performance.
- ▶ Where work (ideas, statements, data, illustrations or examples) from other sources is used in coursework, it must be properly acknowledged and referenced.
- ▶ Cheating is a serious academic offence. We do not tolerate cheating, or assisting others to cheat.
- ▶ Sanctions in case of fraud (See: *Examenreglement*):
 - ▶ 0 for the course
 - ▶ 0 for all courses in this session
 - ▶ 0 for all courses in this year

PC Class

- ▶ Boot Ubuntu (Windows is default)
- ▶ User: uuser (default), Password: maarkedal9680
- ▶ Access your personal folder:
 - ▶ On radix server (you can access your personal folder from anywhere)
 - ▶ In console: `ssh USER@radix.ua.ac.be` (where USER is your user name based on your student number, e.g., p120123), default password is `qwerty123`
 - ▶ Change your password!
- ▶ Respect the facilities! After you have used a labo pc:
 - ▶ Do a clean shut down
 - ▶ Power-off the screen
 - ▶ Push your chair back under the table
 - ▶ Put the keyboard on your pc
 - ▶ Keep the workspace clean

More information

- ▶ Blackboard

- ▶ <http://msdl.cs.mcgill.ca/people/hv/teaching/ComputerSystemsArchitecture/>