

Computer Systems and Architecture

Introduction

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October 2, 2015

CS&A - Practical information

- ▶ Two parts:
 - ▶ Computer Systems
 - ▶ Computer Architecture
- ▶ Friday, 8:30 - 12:45
- ▶ Continuous assessment (more than 50%)
- ▶ Assistants: Bart Meyers
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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
 - ▶ 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
- ▶ Sunday before the first computer architecture Lab session!

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
- ▶ User: student (default), Password: Laar3400
- ▶ Access your personal folder:
 - ▶ On studento server (you can access your personal folder from anywhere using a VPN connection)
 - ▶ In console: `ssh USER@studento.uantwerpen.be` (where USER is your blackboard account, e.g., s0150123), same password as blackboard
- ▶ 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
- ▶ Code of the door to the computer labs: 3400

More information

- ▶ Blackboard

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