Computer Systems and Architecture

Introduction

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CS&A - Practical information

- Two parts:
  - Computer Systems
  - Computer Architecture
- Tuesday, 13:45 - 18:00
- 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 (week 8, 11 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
- Sunday before the first computer architecture Lab session (13/10/2013)!

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: uauser (default), Password: kluisbergen9690
- 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., p130123), 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/`