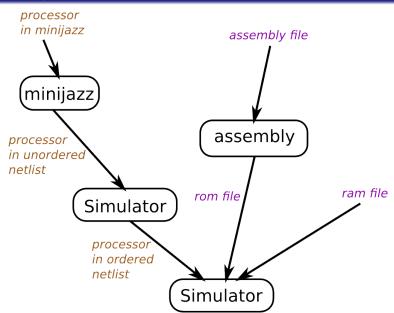
Our processor

Nicolas Blanchard, Axel Davy et Marc Heinrich

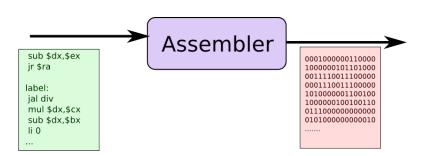
Ecole Normale Supérieure

Mardi 22 janvier 2013

- Processor details
 - Inner working
 - Simulator
 - Ram file
 - Assembler rom file
 - Processor architecture
- 2 Teamwork
- 3 Demonstration

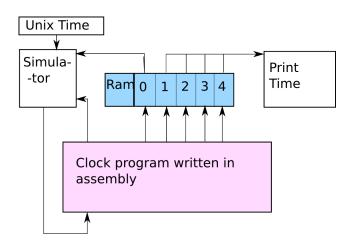


- a table for constants and variables.
- two tables for the content of the RAM and the ROM
- the netlist equations are applied in a specific order.
- outputs values are printed.
- never stops or stops after a number of steps

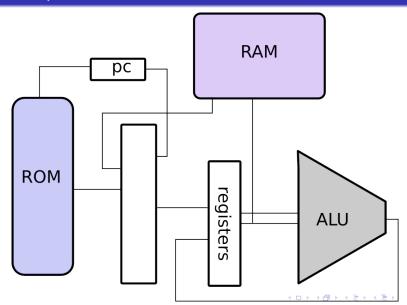


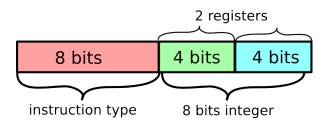
4□ > 4□ > 4□ > 4□ > 4□ > 000

clock program



The processor





• RAM and registers on 8 bits

Short description of our instructions

- Jumps
 - test instruction two bits flag register
 - jne jal je jl jle jm jme jmp jne jr
- Memory interface
 - li lw sw
- Arithmetic
 - add sub mul not and or xor
 - move shl shr sra

Processor architecture

Advantages

Fast

Advantages

- Fast
- Reliable

Advantages

- Fast
- Reliable
- Adapted to embedded system
- does not contain unuseful functions
- cheap
- energy efficient

Work organization

- github
- mails
- two ways of working

