

Digital Design and Computer Architecture LU

Lab Protocol

Exercise III

Group 6

Vorname Nachname, Matr. Nr. 0123456

e0123456@student.tuwien.ac.at

Vorname Nachname, Matr. Nr. 0123456

e0123456@student.tuwien.ac.at

Maximilian Engl, Matr. Nr. 11775811

e11775811@student.tuwien.ac.at

Vienna, June 2, 2019

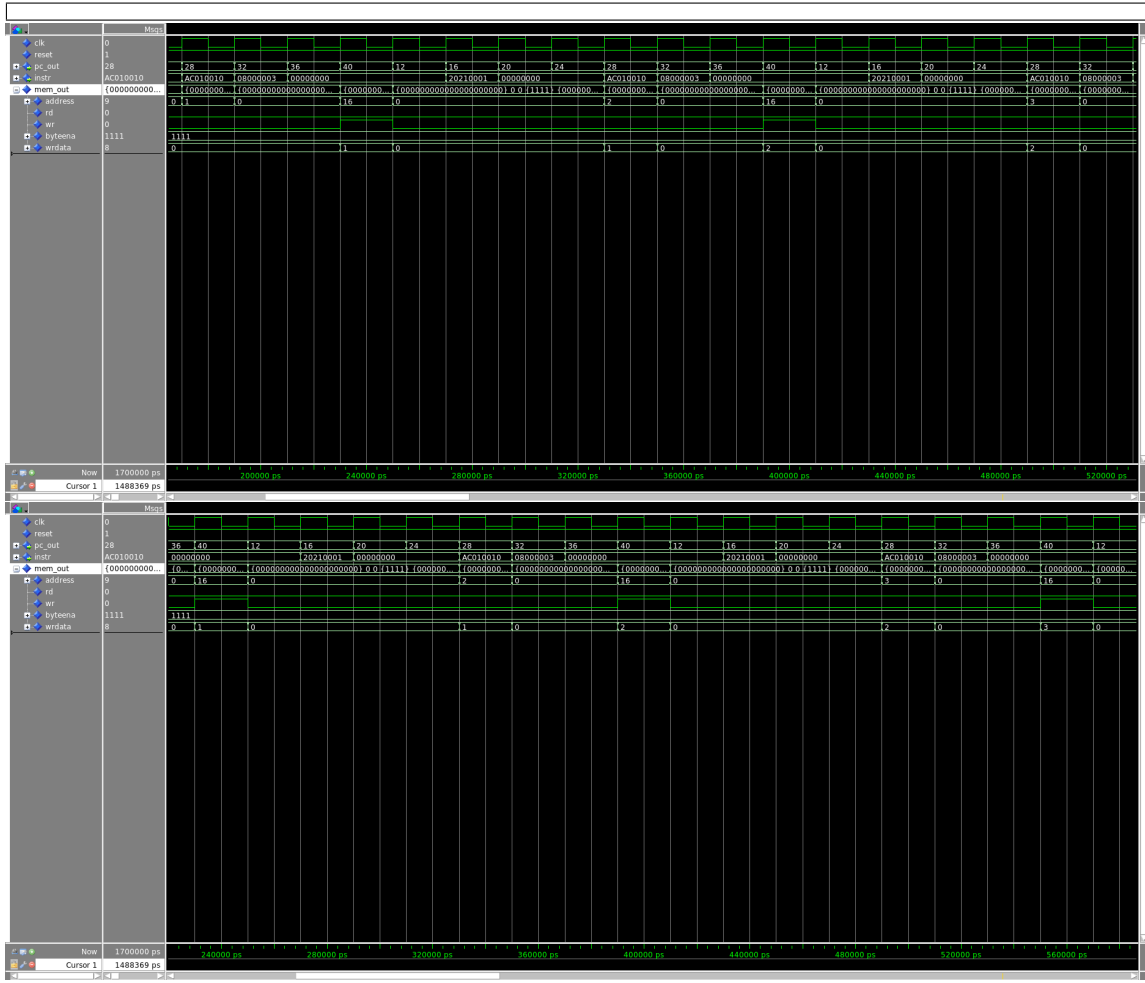


Figure 1: Simulation screenshot for Listing 1.

Make sure the following signals are visible in Figure 1 and the signal values are readable: the program counter in the fetch stage, the instruction being fetched, and the fields address, rd, wr, byteena, and wrdata in the mem_out signal coming out of the pipeline.

Listing 1: Assembler example without forwarding

```
addi $1, $0, 0
nop
nop
loop:
    addi $1, $1, 1
    nop
    nop
    sw $1, 16($0)
    j loop
    nop
    nop
    nop
```