Digital Design and Computer Architecture LU

Lab Protocol

Exercise III

Group 25

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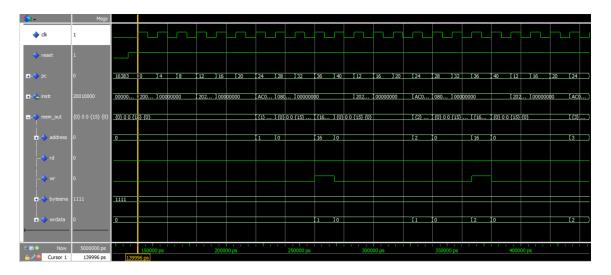


Figure 1: Simulation screenshot for Listing 1.

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
```