

Digital Design and Computer Architecture LU

Lab Protocol

Exercise III

Group 2

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Vienna, May 24, 2018

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
```

Listing 2: Assembler example machine code

```
WIDTH=32;
ADDRESS_RADIX=HEX;
DATA_RADIX=HEX;
DEPTH=11;
CONTENT BEGIN
    00000000 : 20010000;
    00000001 : 00000000;
    00000002 : 00000000;
    00000003 : 20210001;
    00000004 : 00000000;
    00000005 : 00000000;
    00000006 : ac010010;
    00000007 : 08000003;
    00000008 : 00000000;
    00000009 : 00000000;
    0000000a : 00000000;
END;
```