from instruction linemory instruction linemory l

from data

memory

j1 j2 j3

0 0 0

0 0 1

0 1 0

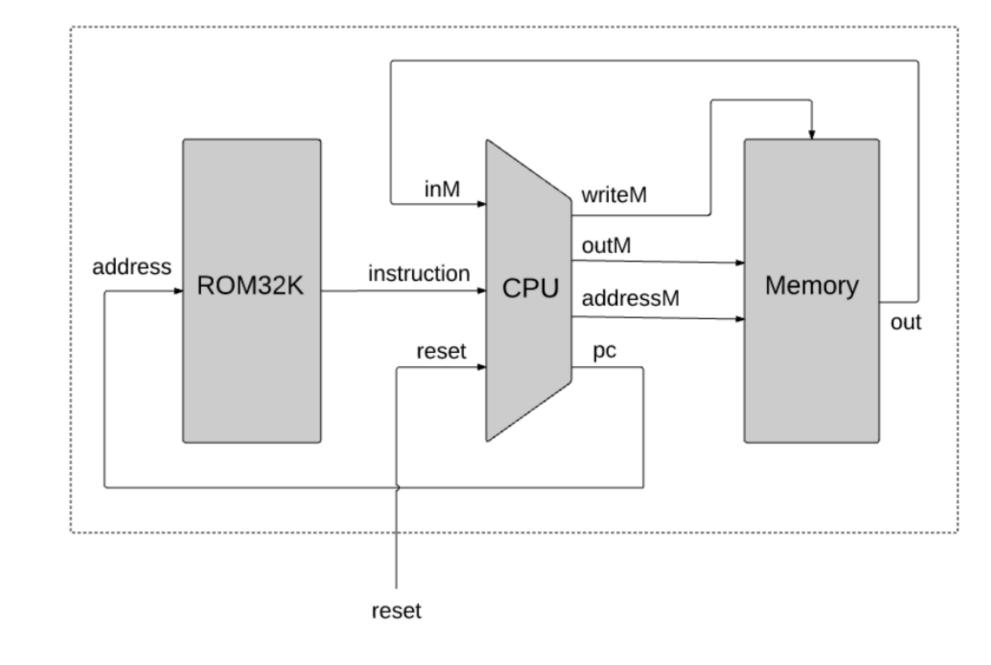
0 1 1

1 0 0

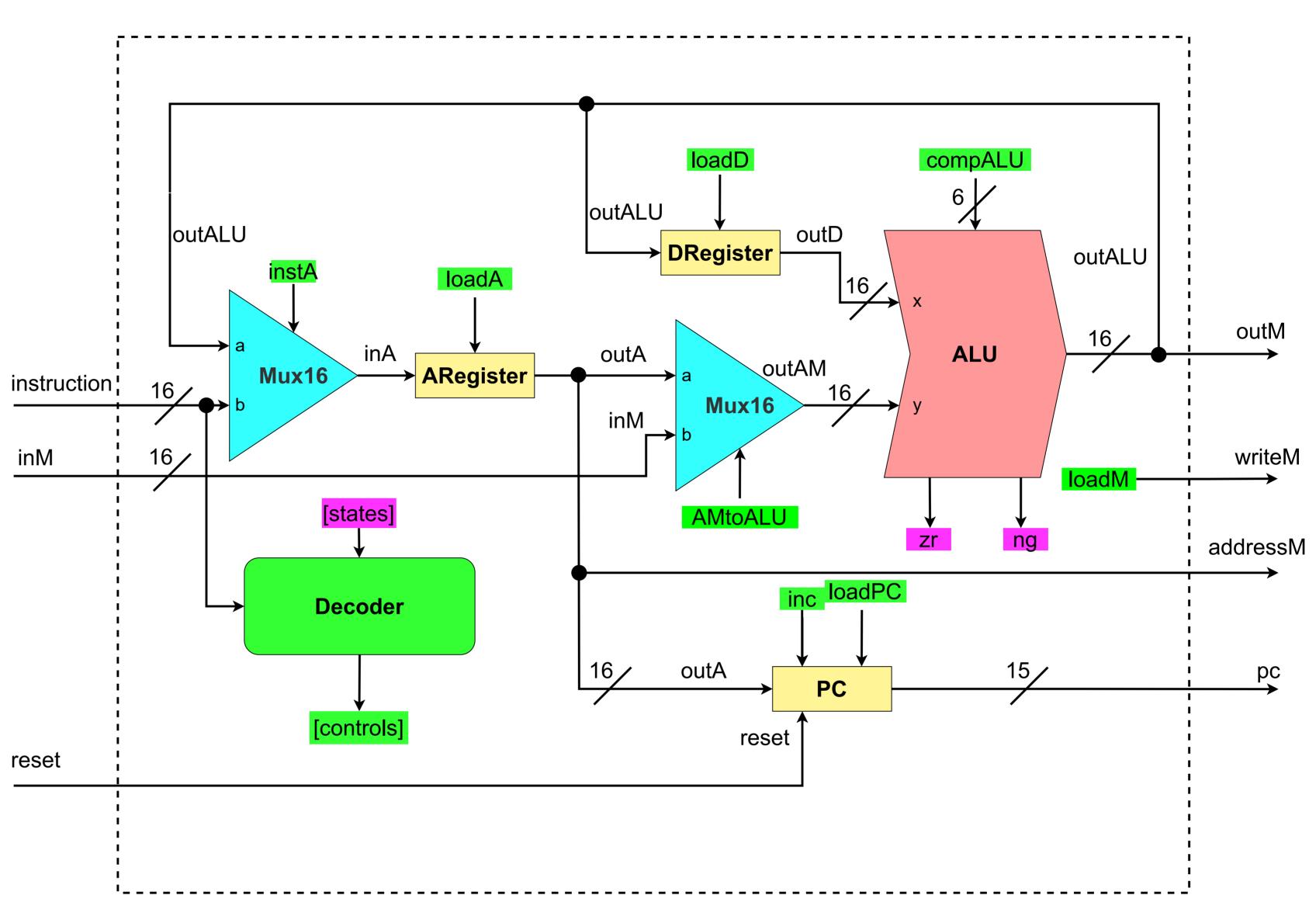
1 0 1

1 1 0

1 1 1



```
// Computes 1+...+RAM[0]
// And stored the sum in RAM[1]
          // i = 1
    @sum
          // sum = 0
(LOOP)
          // if i>RAM[0] goto WRITE
    D=M
    @R0
    D=D-M
    @WRITE
    D; JGT
          // sum += i
    D=M
    @sum
    M=D+M
         // i++
    M=M+1
   @LOOP // goto LOOP
    0;JMP
(WRITE)
    @sum
    D=M
   @R1
M=D // RAM[1] = the sum
(END)
    @END
    0;JMP
```



memory

- instruction

