## Computation Structures — Microcode (part 2)

November 25, 2020

## Microcode for $\beta$ -machine with bus

1. Give symbolic microcode for the following instruction:

Where a % b is the modulo operator, computing the remainder of integer division of a by b. You can assume that the ALU has been augmented with function ONE (0b0000) that simply puts the value 1 on its output.

2. Give symbolic microcode for instruction BRTBL(Ra,Label,Rc).

The value of the Lit field in the instruction is computed by the assembler as in BEQ(Ra,label,Rc).