- pickup HW1
- midterm outline on PolyLearn
- green notecard

a0 a1 a2 a3

+5

```
f(a, b, c, d) {
    return func( func(a,b), c+d);
}
```

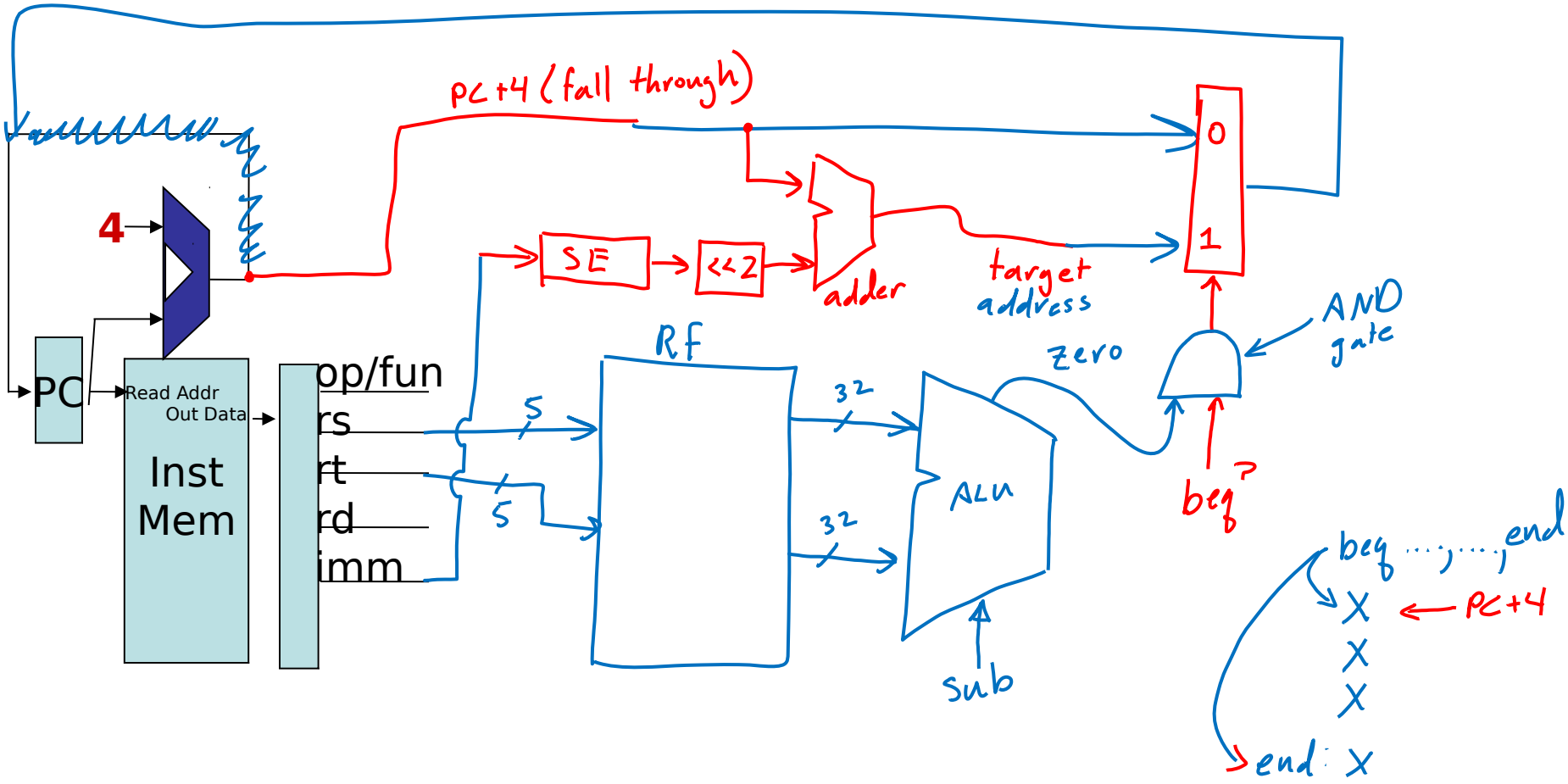
```
f:  addi $sp, $sp, -12
    sw $ra, 0($sp)
    sw $a2, 4($sp)
    sw $a3, 8($sp)
    jal func
    lw $a2, 4($sp)
    lw $a3, 8($sp)
    add $a1, $a2, $a3
    add $a0, $v0, $0
    jal func
    lw $ra, 0($sp)
    addi $sp, $sp, 12
    jr $ra
```

0. save $s0
1. add $s0, $a2, $a3

arguments for second call

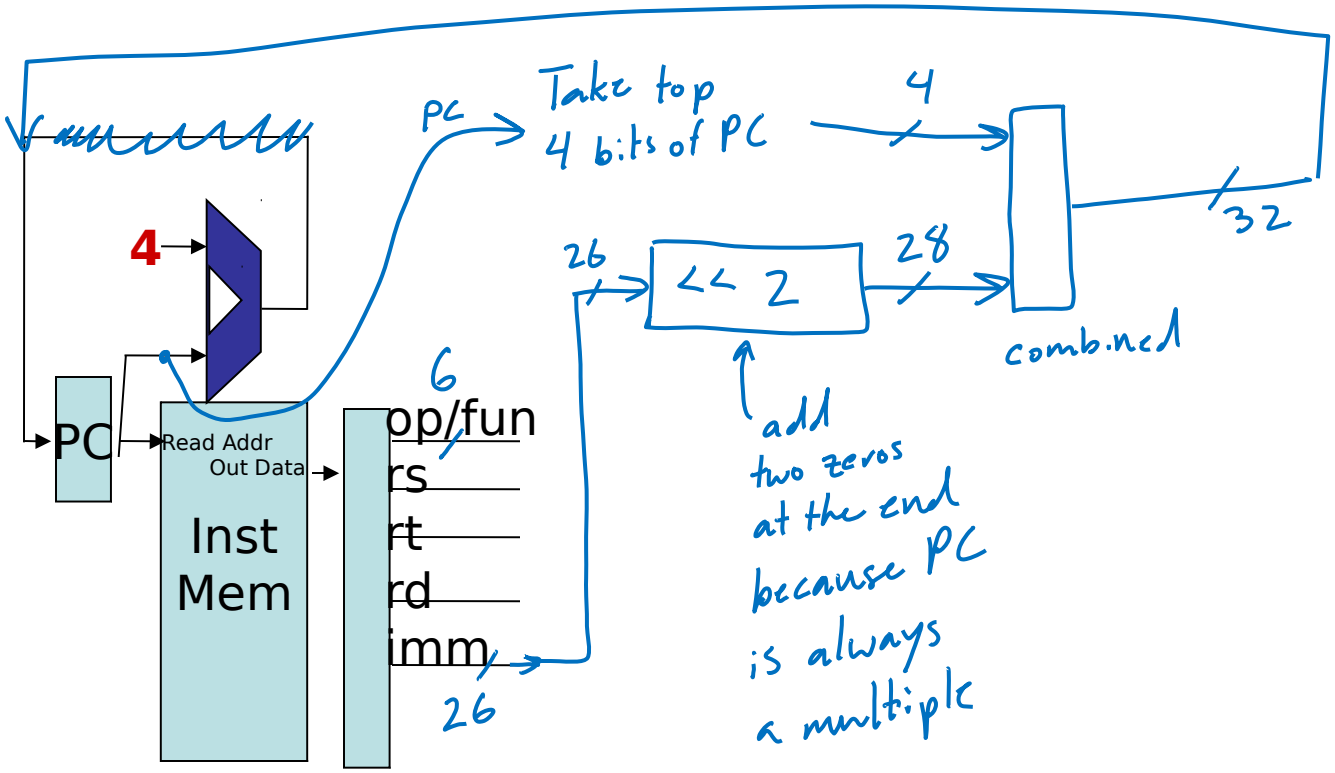
“beq” Instruction

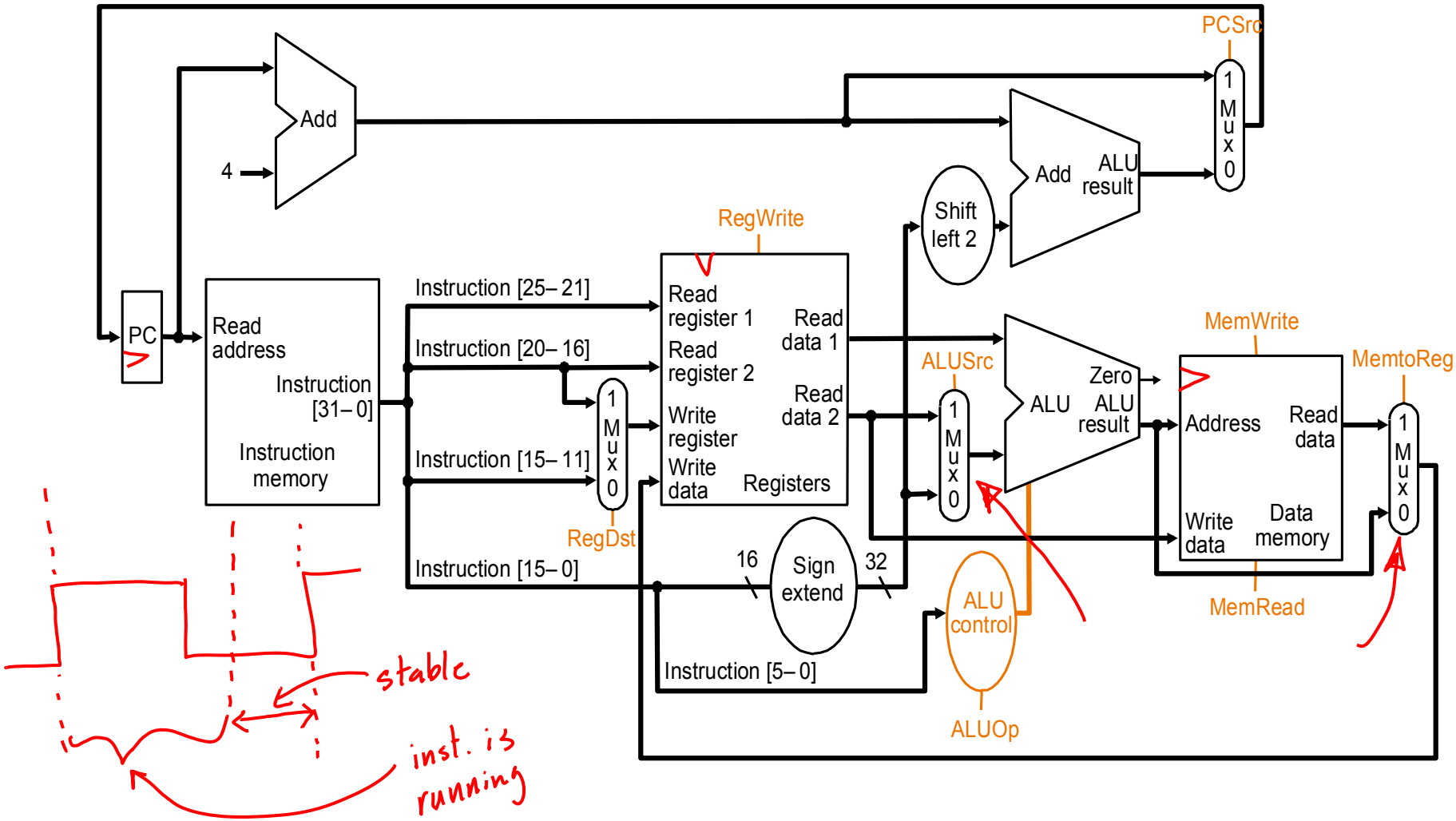
Operation	rs	rt	imm	# meaning
Beq $3,$5,lp	3	5	6	# if ($3 == $5) goto lp



“j” Instruction

Operation	Target address	# meaning
J loop	0x0174837	# goto **loop**



The single-cycle processor (datapath)

↑ all instructions finish in 1 clock cycle