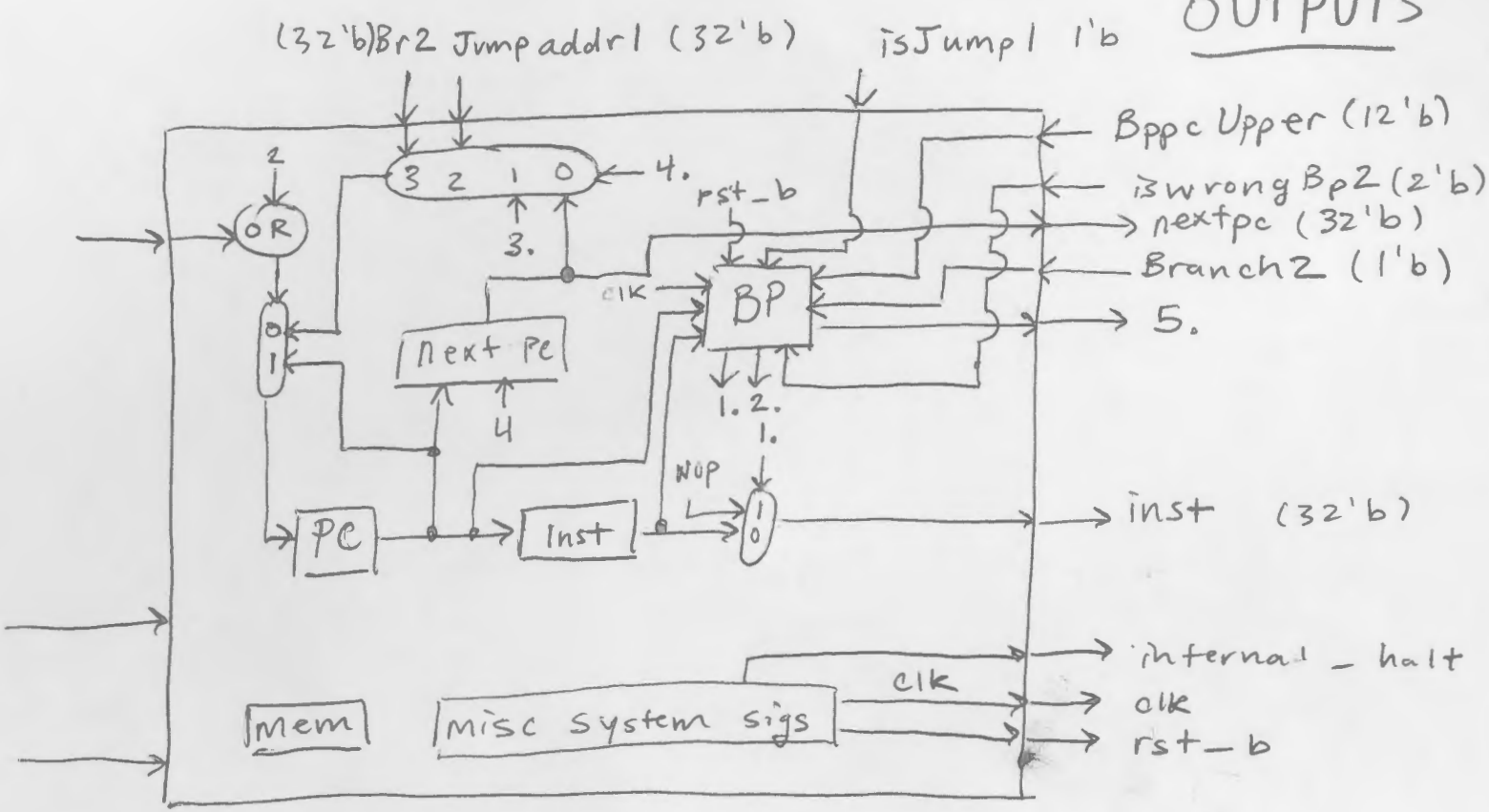
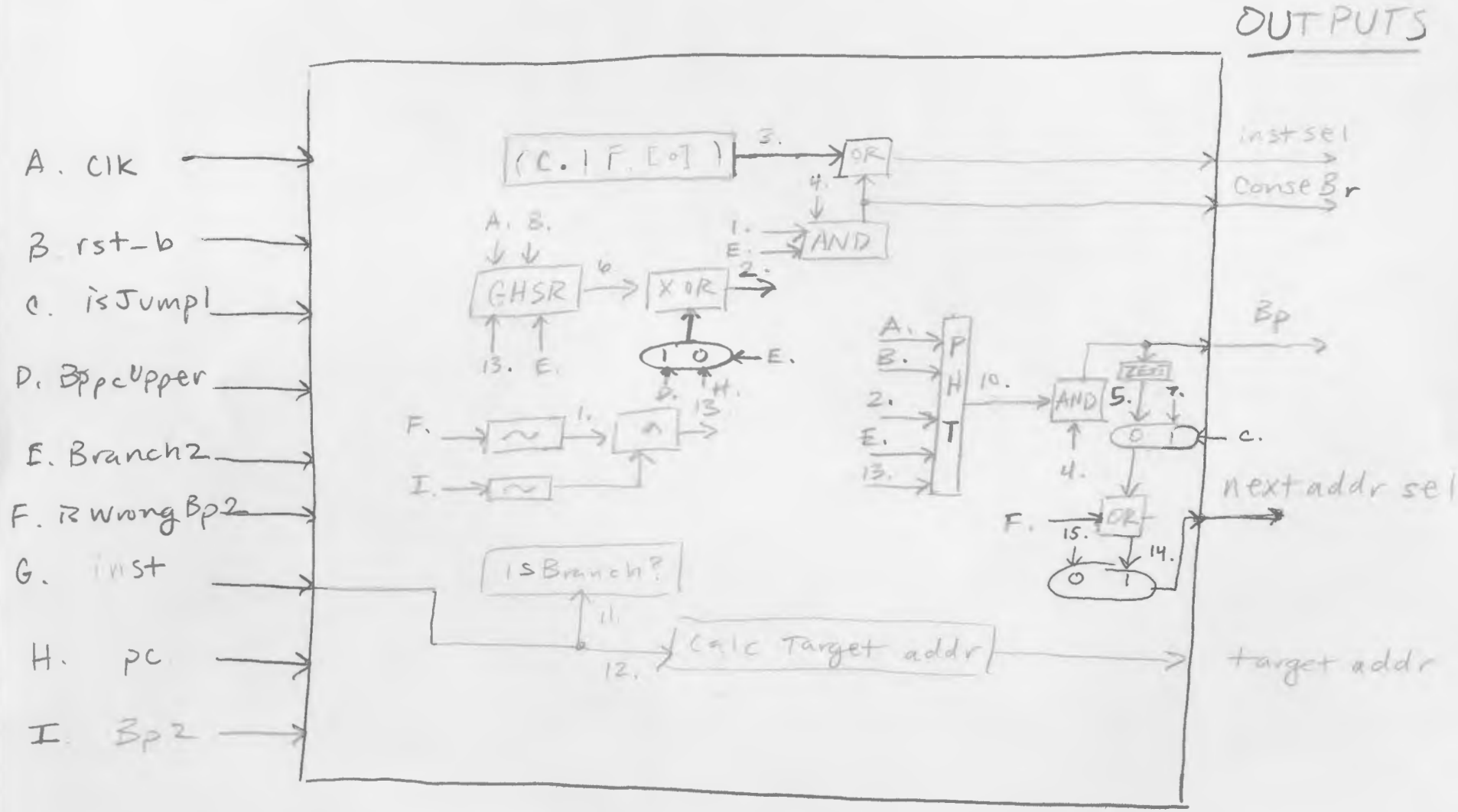
Fc Management



Legend: 1. instSel 2. ConseeBr 3. targetaddr

4. nextaddrsel 5. BpUpper

Bp_Unit (Gshare)



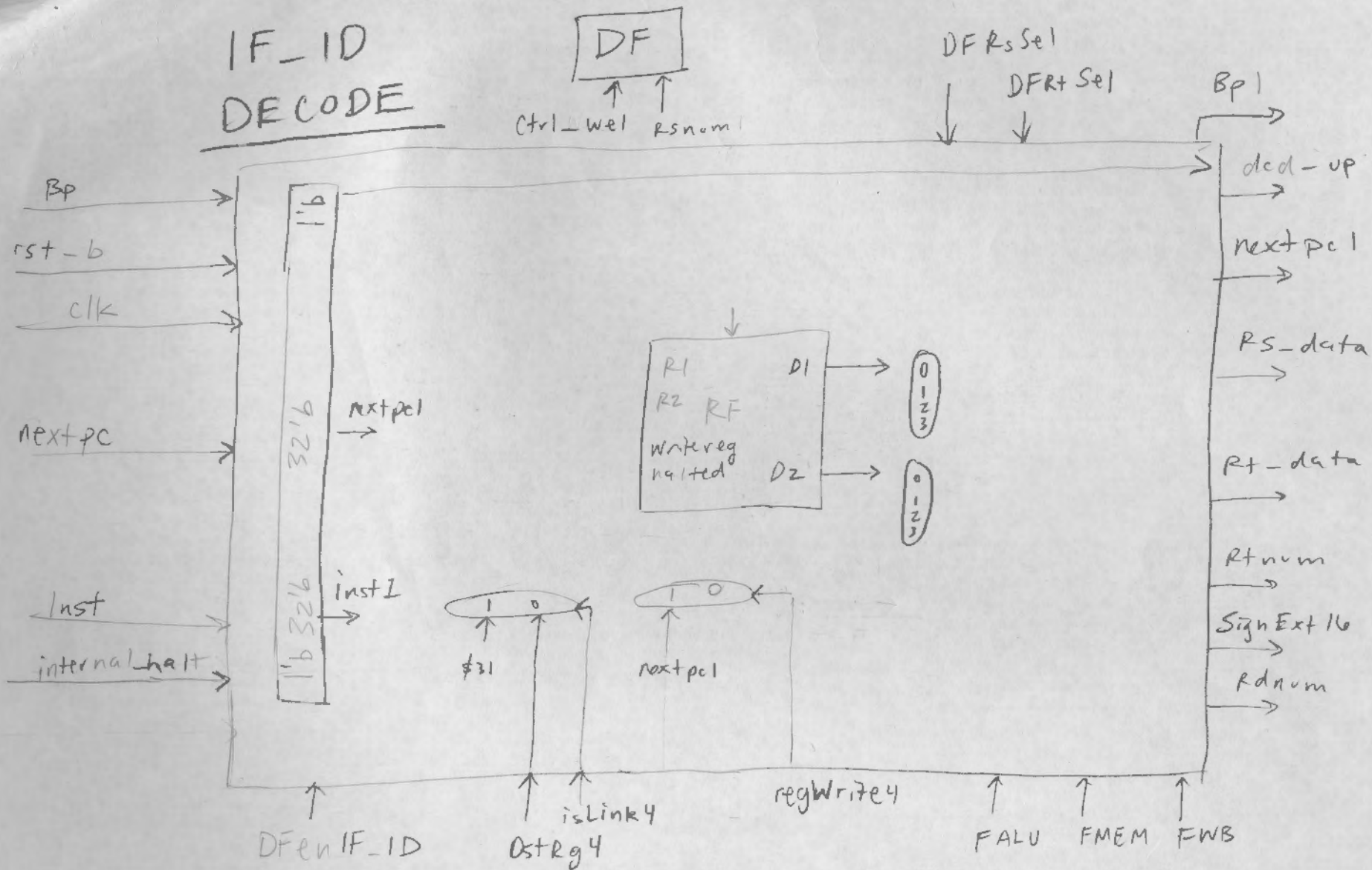
Legend

1. negiswrongBp2 (1'b) 2. hashedidx (12'b) 3. JorWrongB (1'b) 4. isBranch (1'b) 5. ZextBp (2'b) 6. GHSRval (12'b 7. Jumpaddrsel (2'b10) 8. BporJ (2'b) 9. Selpc (12'b) 10. data_out[1] (1'b) 11. ded_op (5'b) 12. ded_imm (16'

13. correct Bp (1'b)

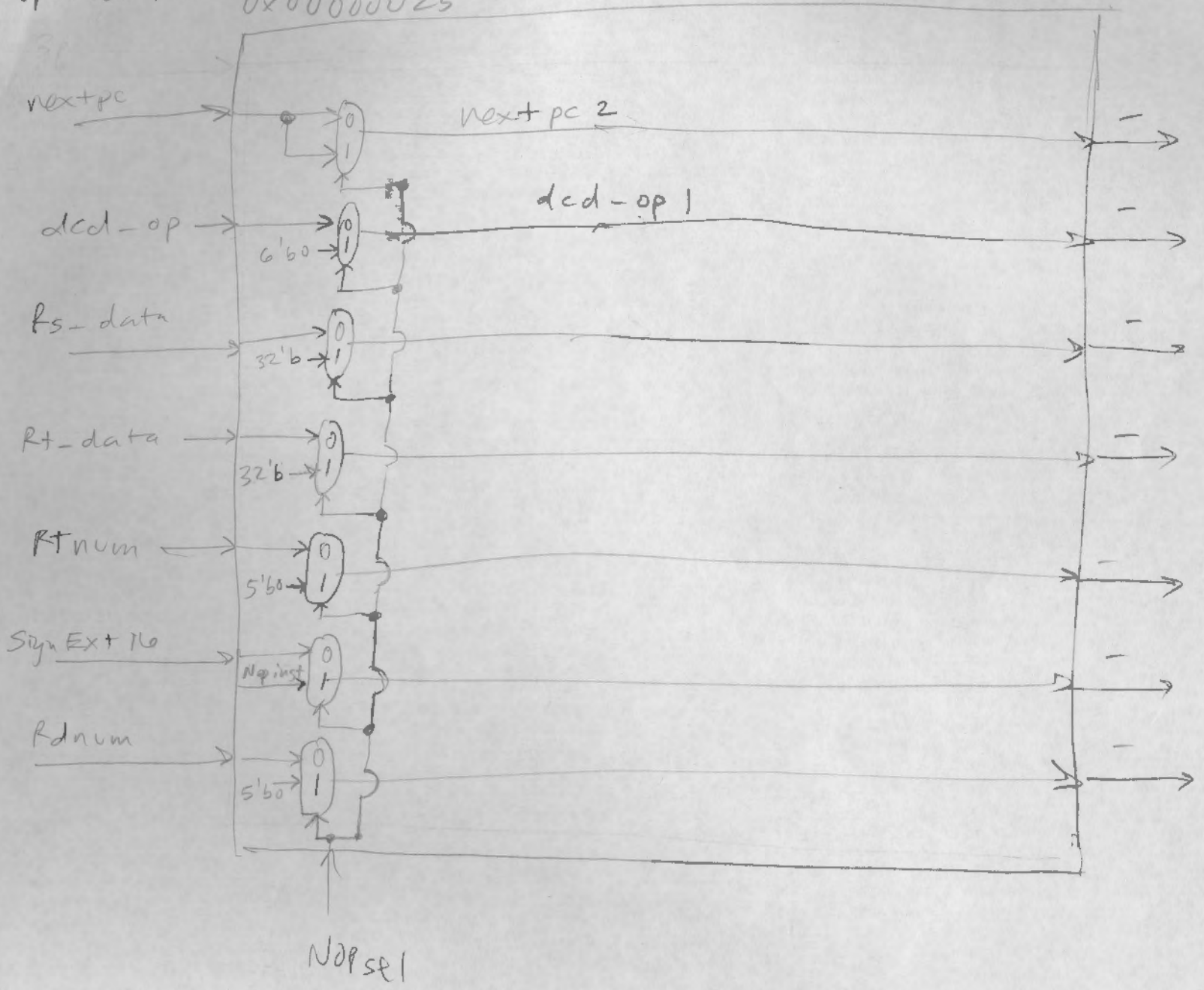
14. addr sel temp

15. nextpc sel (2'b0)


IF_ID
DECODE
DF
Ctrl_wel
Rsnum
DFRsSel
DFRtSel
Bp1
dcd_up
nextpc1
RS_data
Rt_data
Rtnum
SignExt16
Rdnum
Bp
rst_b
clk
nextpc
Inst
internal_halt
1'b 32'6
nxtpc1
inst1
RF
R1
R2
writereg
halted
D1
D2
$31
nextpc1
regWrite4
DFenIF_ID
Ostrg4
isLink4
FALU
FMEM
FWB

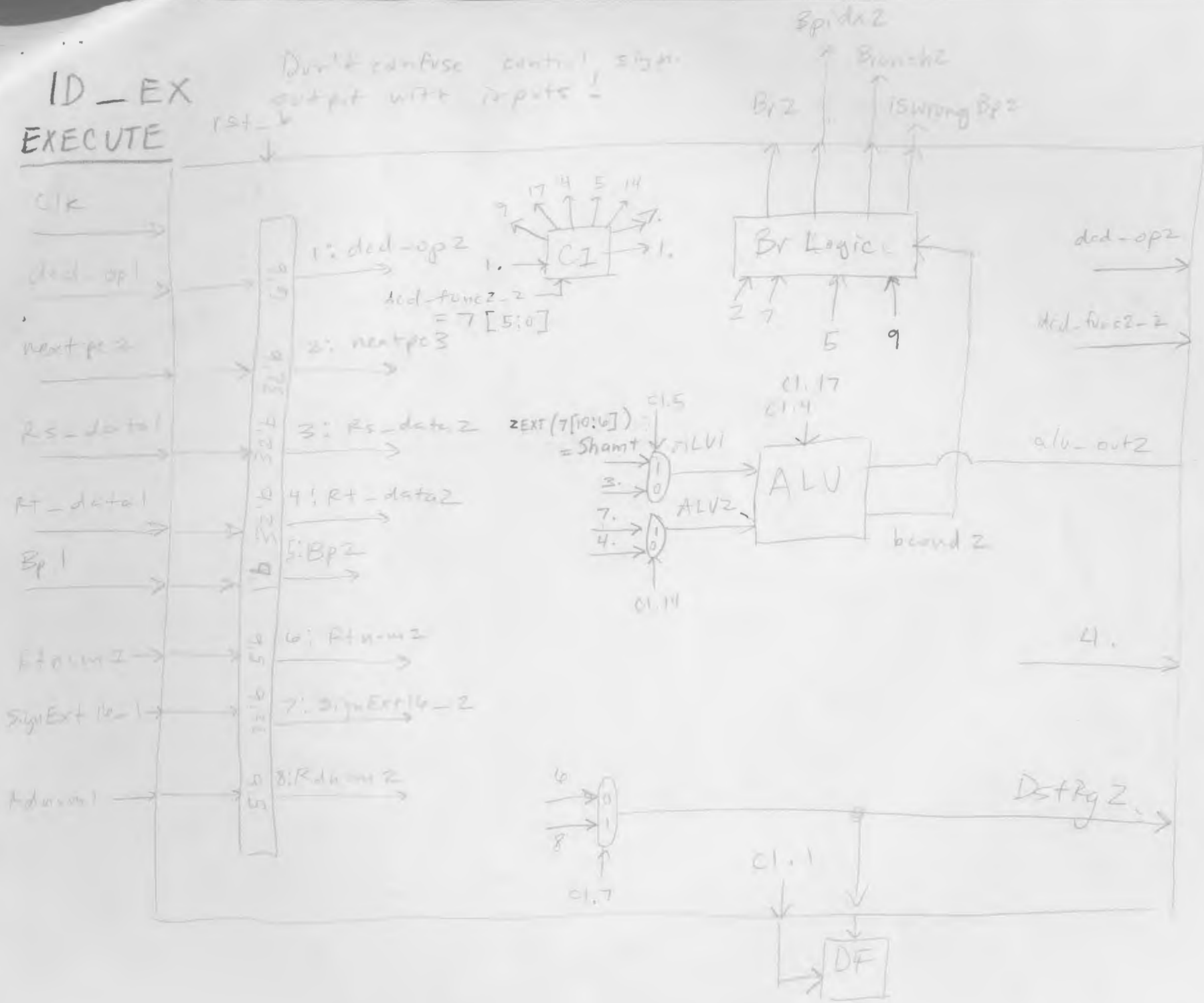
NOP selection

Nop inst. = 0x00000025

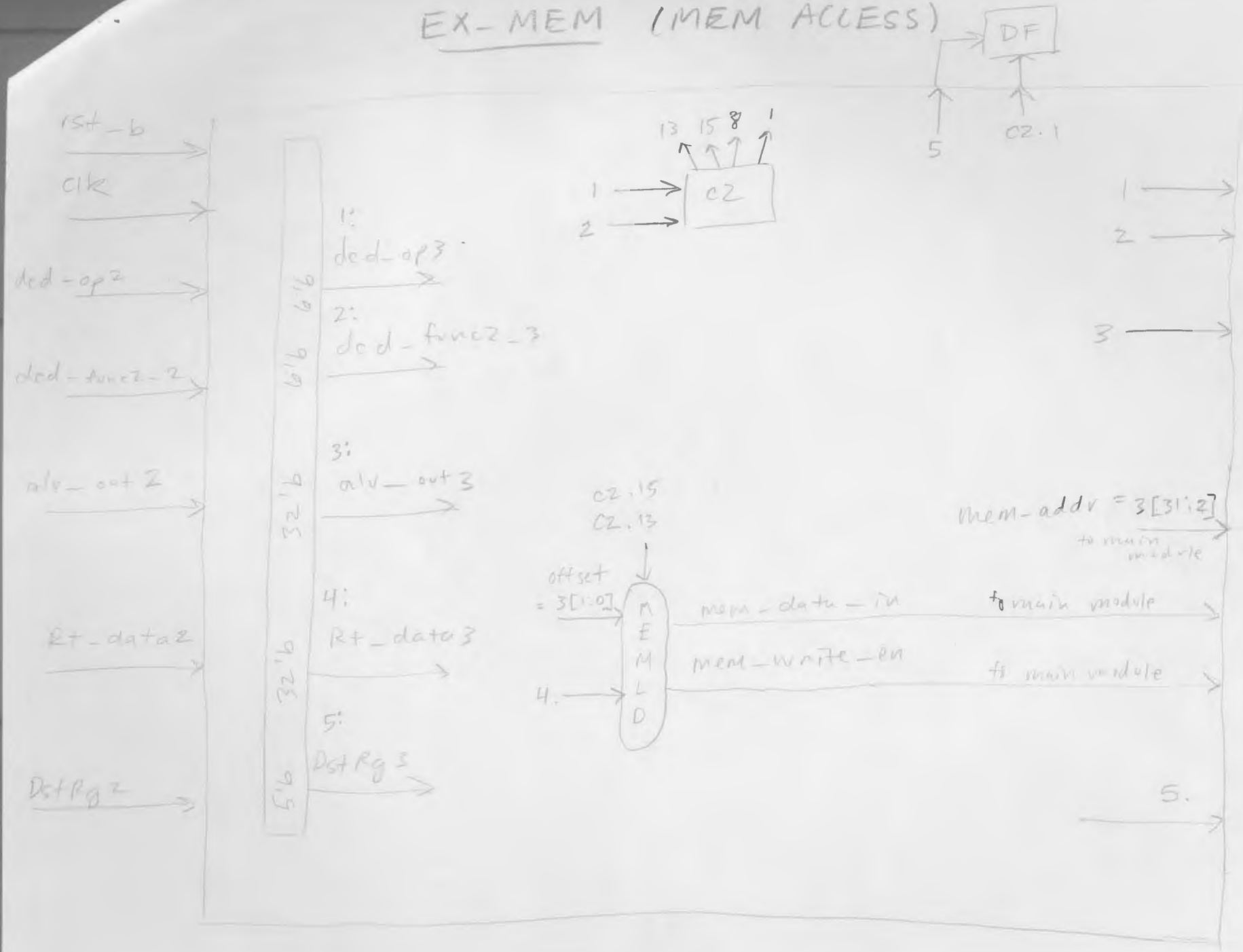


ID_EX

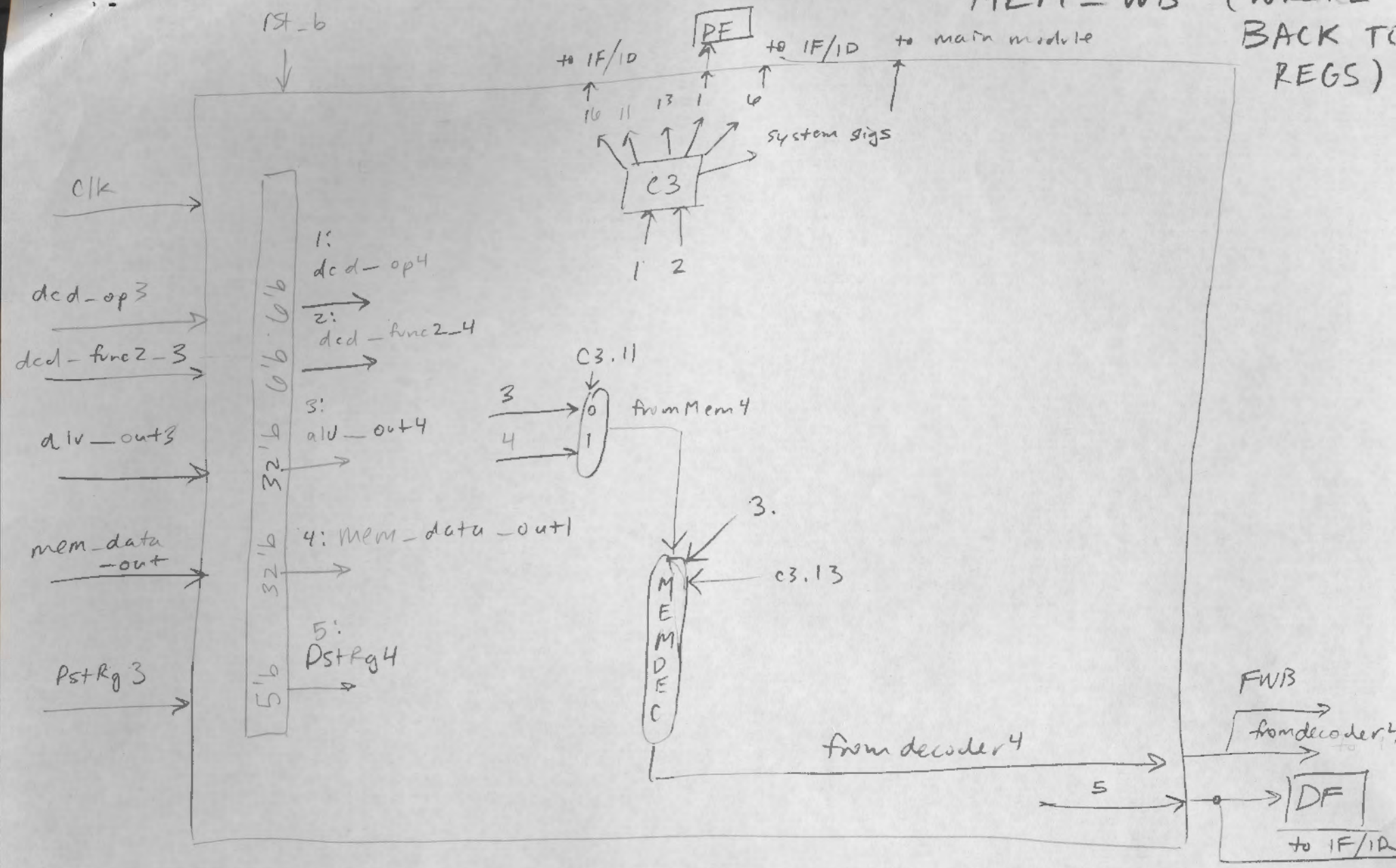
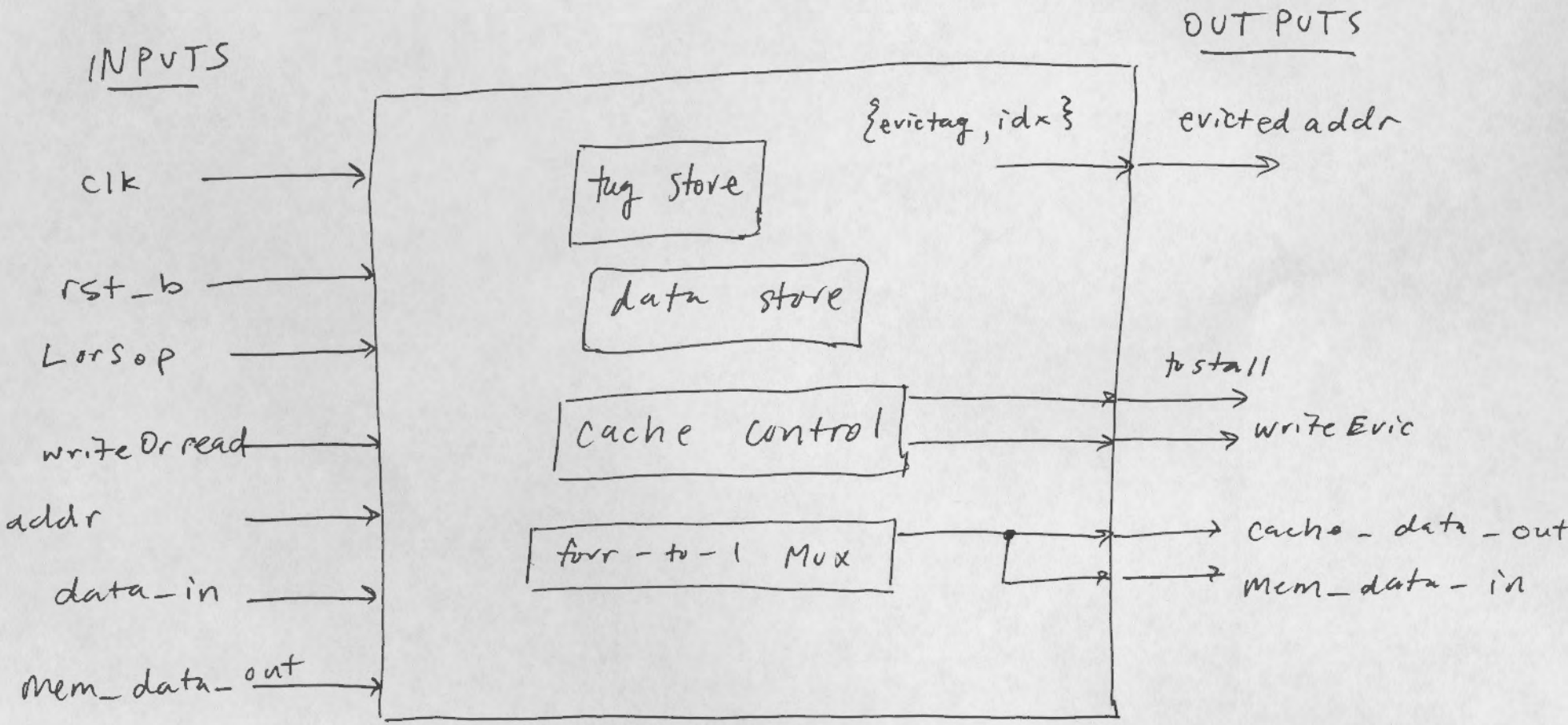
EXECUTE



EX_MEM (MEM ACCESS)



MEM_WB (WRITE BACK TO REGS)



8KB 4-way set associative cache with LRU replacement policy