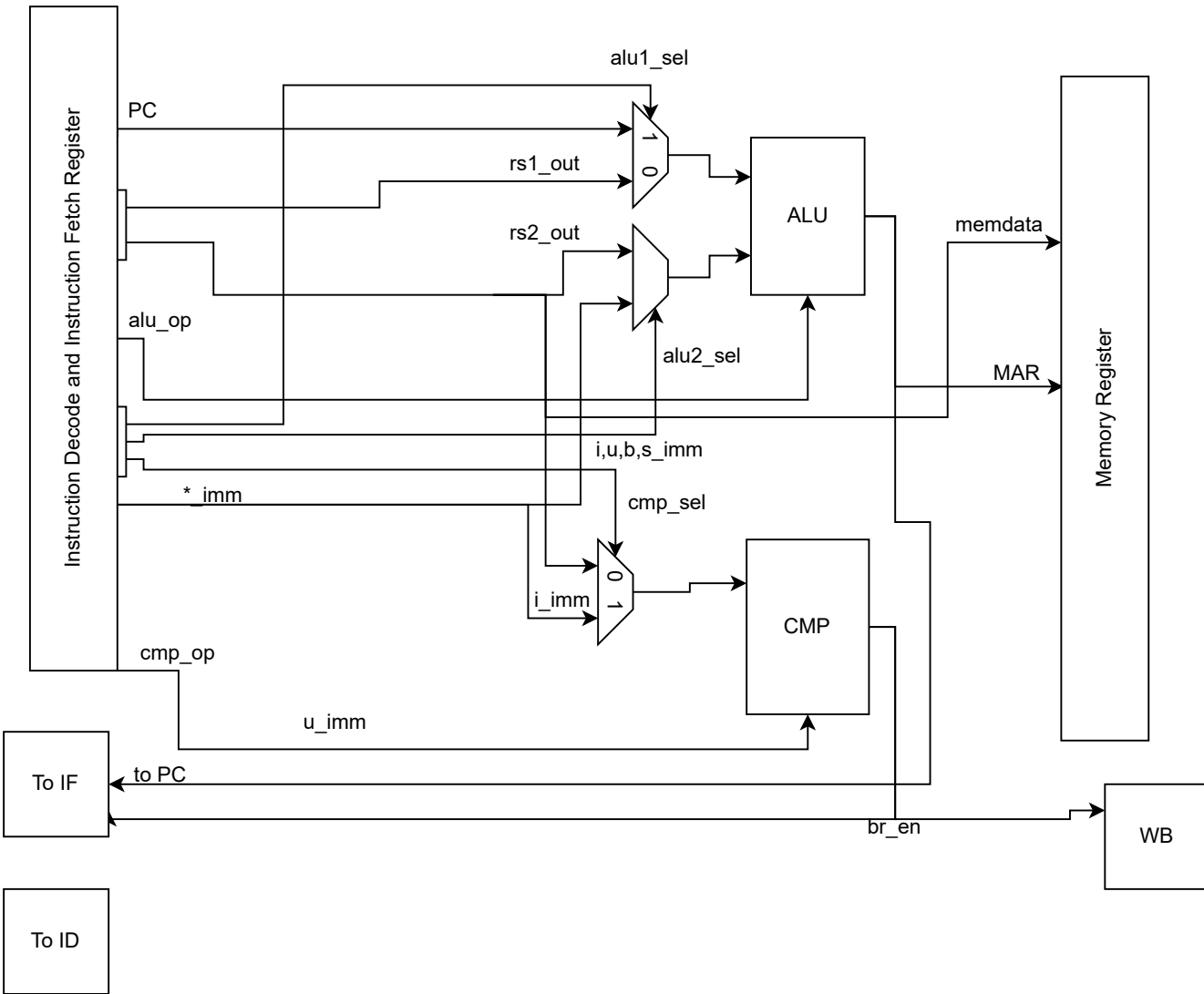Go through all tools used by instructions(ALU, Comparator, etc)

Handles reading and writing to memory for for
execution purposes

EX_MEM Register

Mem

MEM_WB Register

Data Cache

alu_out

br_en

rd

u_imm

pc_plus_4

alut_out

rd

br_en

u_imm

data_rdata

pc_plus_4

data_read

data_write

data_resp

data_rdata

Byte Enable

data_addr

data_wdata

MEM_WB Register

regfilemux_sel

alu_out

data_rdata

br_en

pc_plus_4

u_imm

rd

regfiemux_out

regfile

Execute Stage