

instrimm —

in2 out1 ─set pc is mem or imm or reg1 mem addr sel GET INSTR ENABLE write reg sel mem_wr_rd_o_r alu output dir mem2 wr or rd -ALU ENABLE----alu op set pc en , direct set or offset mem en 🗲 set pc is imm mem or reg1 rdat INSTR OP— **MEMORY** out1 —READ REG1 EN— read reg1 en write reg output PC ADDR— INSTRTION MEM READ REG2 EN MUX read reg1 addr psr_nzp read reg2 addr out2 read reg1 dat psr_nzp read reg2 dat reg1 data output MUX out1 pc addr read reg2 data