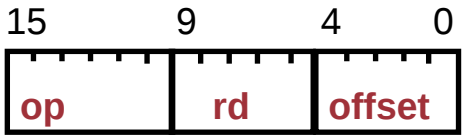
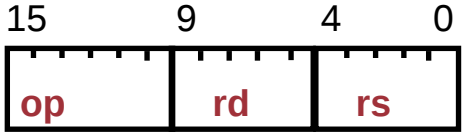
Instruction formats

load / store:



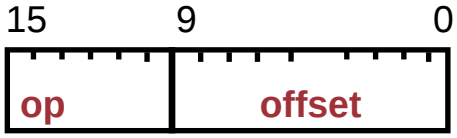
load: [rd] ← [Y+offset]
St: [Y+offset]← [rd]

arithmetic:



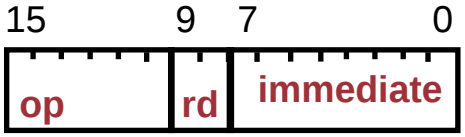
[rd] = [rd]+[rs]

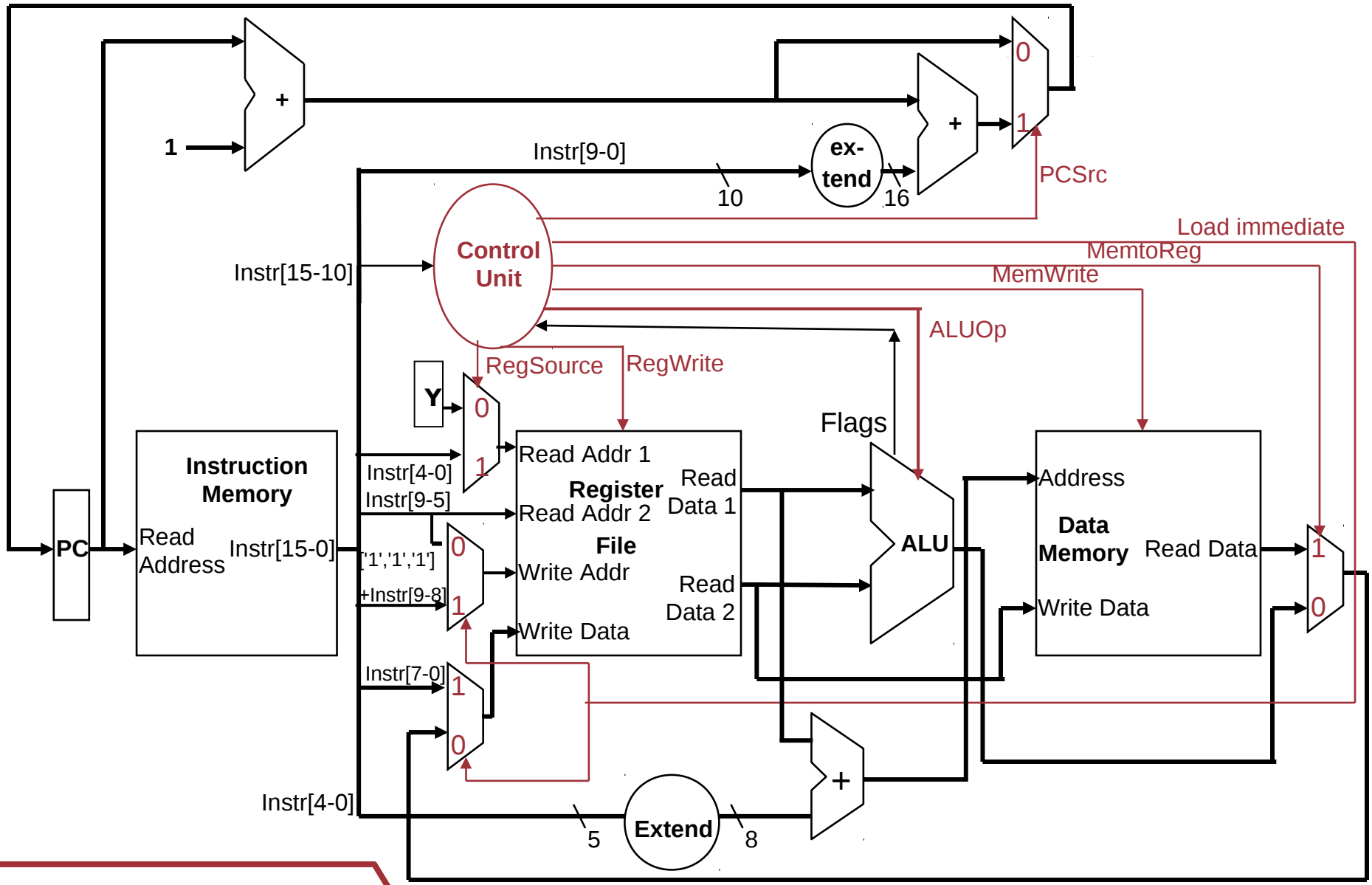
Branch:



[PC] ← [PC]+offset

Load constant:



[rd] = immediate

Single Cycle Datapath with Control Unit