



State	Datapath μ Op
Fetch	Instr \leftarrow Mem[PC]; PC \leftarrow PC+4
Decode	ALUOut \leftarrow PCTarget
MemAdr	ALUOut \leftarrow rs1 + imm
MemRead	Data \leftarrow Mem[ALUOut]
MemWB	rd \leftarrow Data
MemWrite	Mem[ALUOut] \leftarrow rd
ExecuteR	ALUOut \leftarrow rs1 op rs2
Executel	ALUOut \leftarrow rs1 op imm
ALUWB	rd \leftarrow ALUOut
BEQ	ALUResult = rs1-rs2; if Zero, PC \leftarrow ALUOut
JAL	PC \leftarrow ALUOut; ALUOut \leftarrow PC+4