## Lab 3

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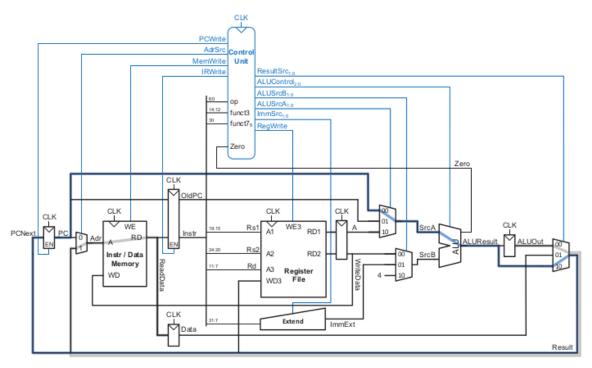


Figure 7.46 Multicycle processor potential critical paths

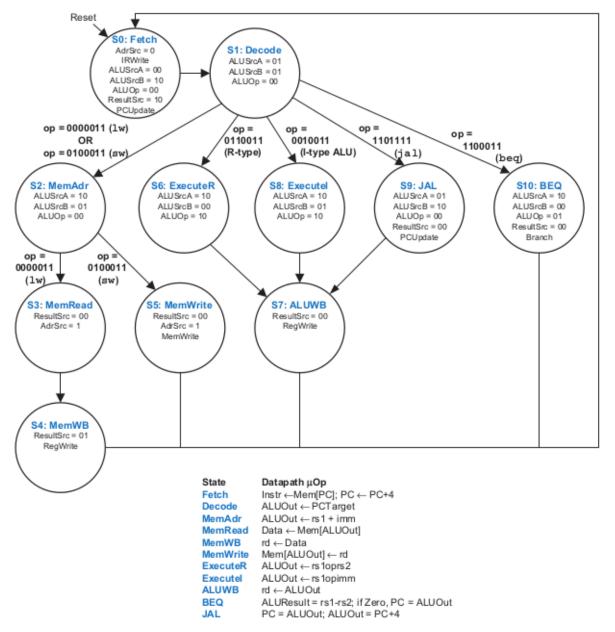


Figure 7.45 Complete multicycle control FSM

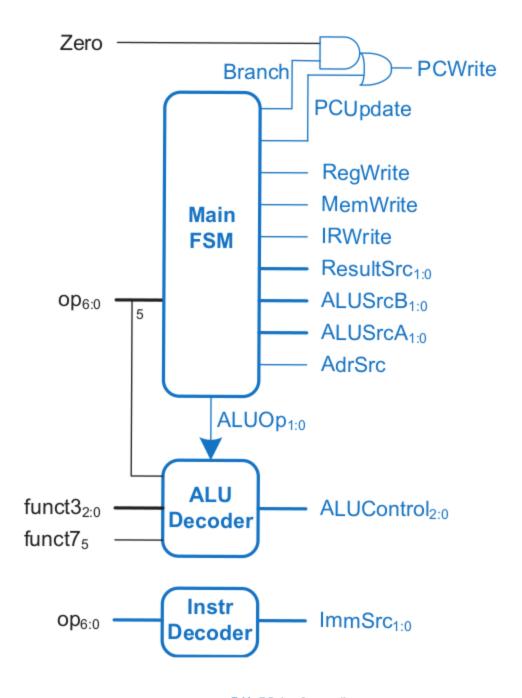


Table 7.5 ImmSrc encoding.

ImmSrc	ImmExt	Type	Description
00	{{20{Instr[31]}}, Instr[31:20]}	I	12-bit signed immediate
01	{{20{Instr[31]}}, Instr[31:25], Instr[11:7]}	S	12-bit signed immediate
10	{{20{Instr[31]}}, Instr[7], Instr[30:25], Instr[11:8], 1'b0}	В	13-bit signed immediate
11	{{12{Instr[31]}}, Instr[19:12], Instr[20], Instr[30:21], 1'b0}	J	21-bit signed immediate