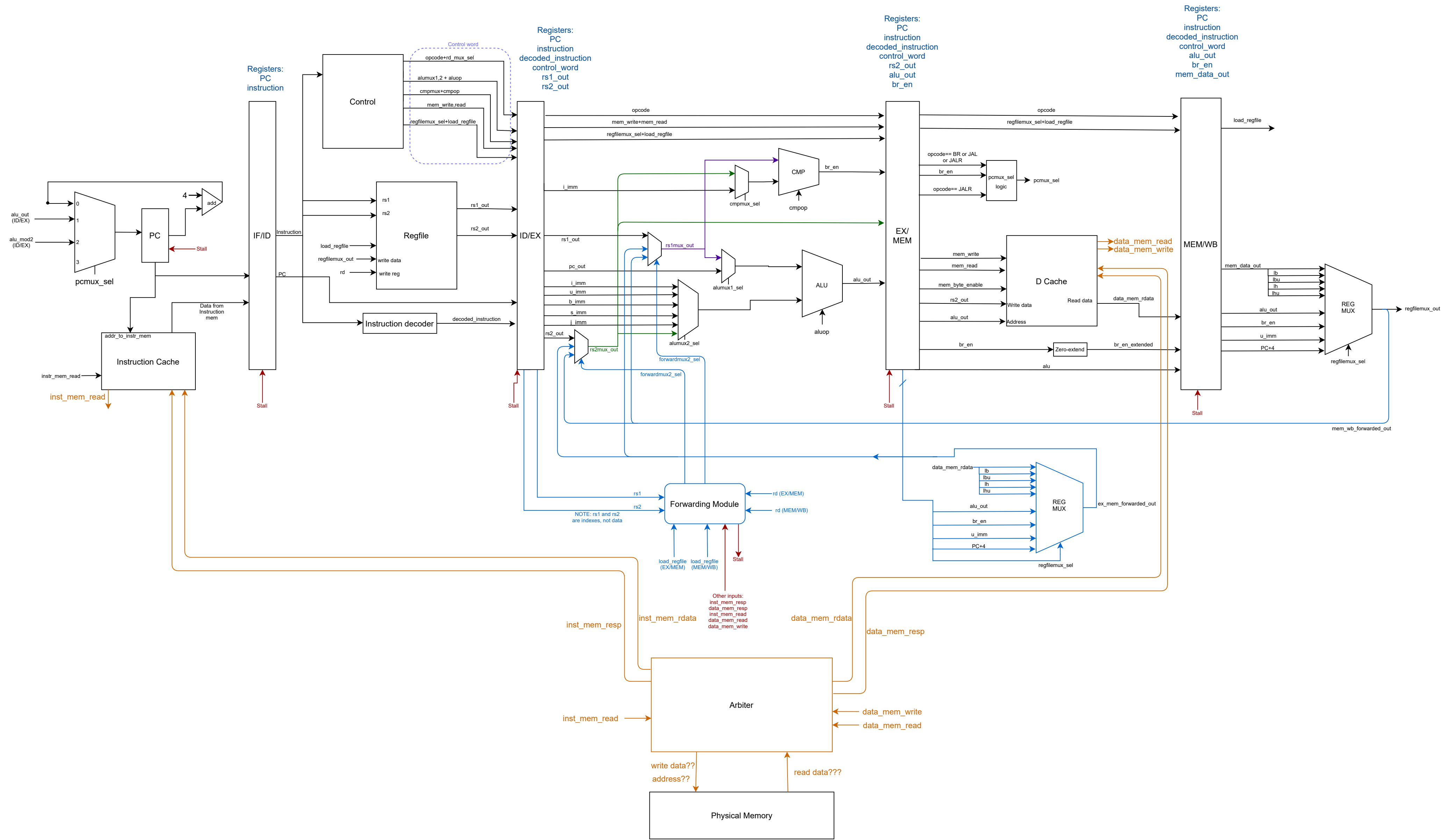
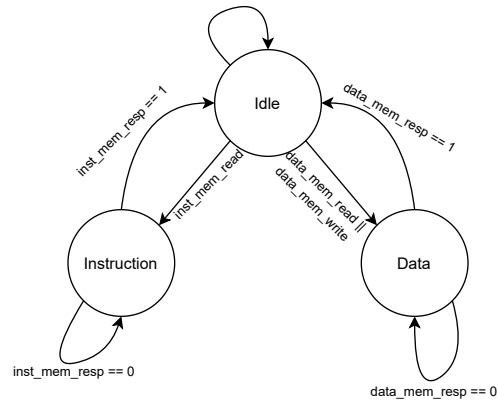
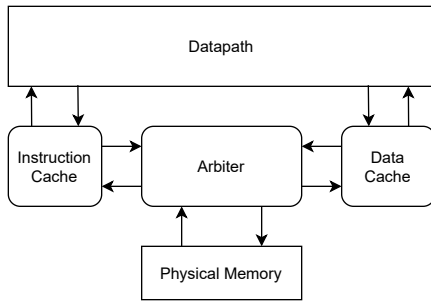


-pass Instruction value down pipeline to make it easier to determine rs1, rs2, rd hazard detection





**Note: Prioritize Instruction requests over Data requests**

**State Outputs:**

**Idle:** Output all Zeros

**Instruction:** route signals to/from Instruction Cache ( mux selects = 1)

**Data:** route signals to/from Data Cache ( mux selects = 0)

