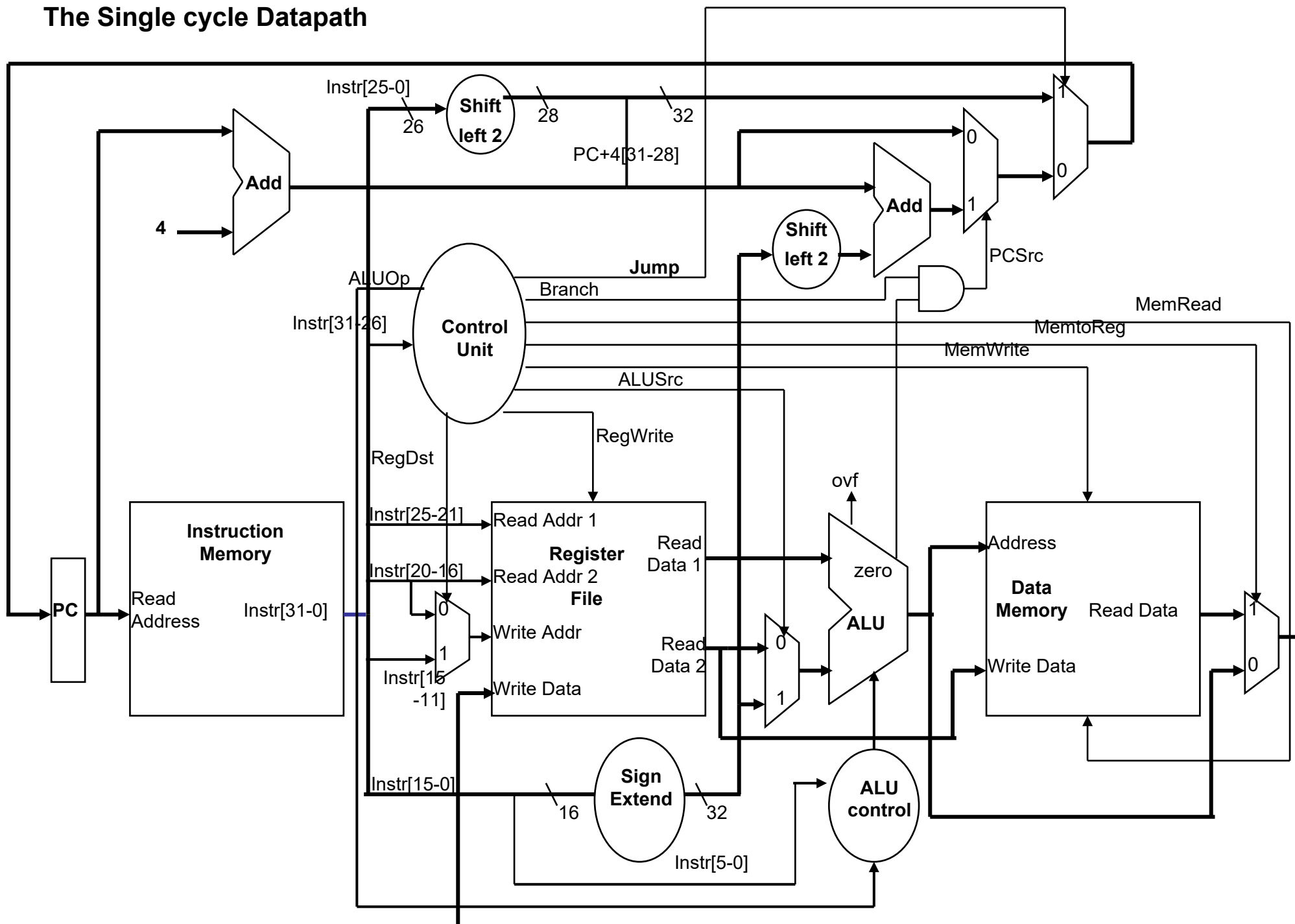
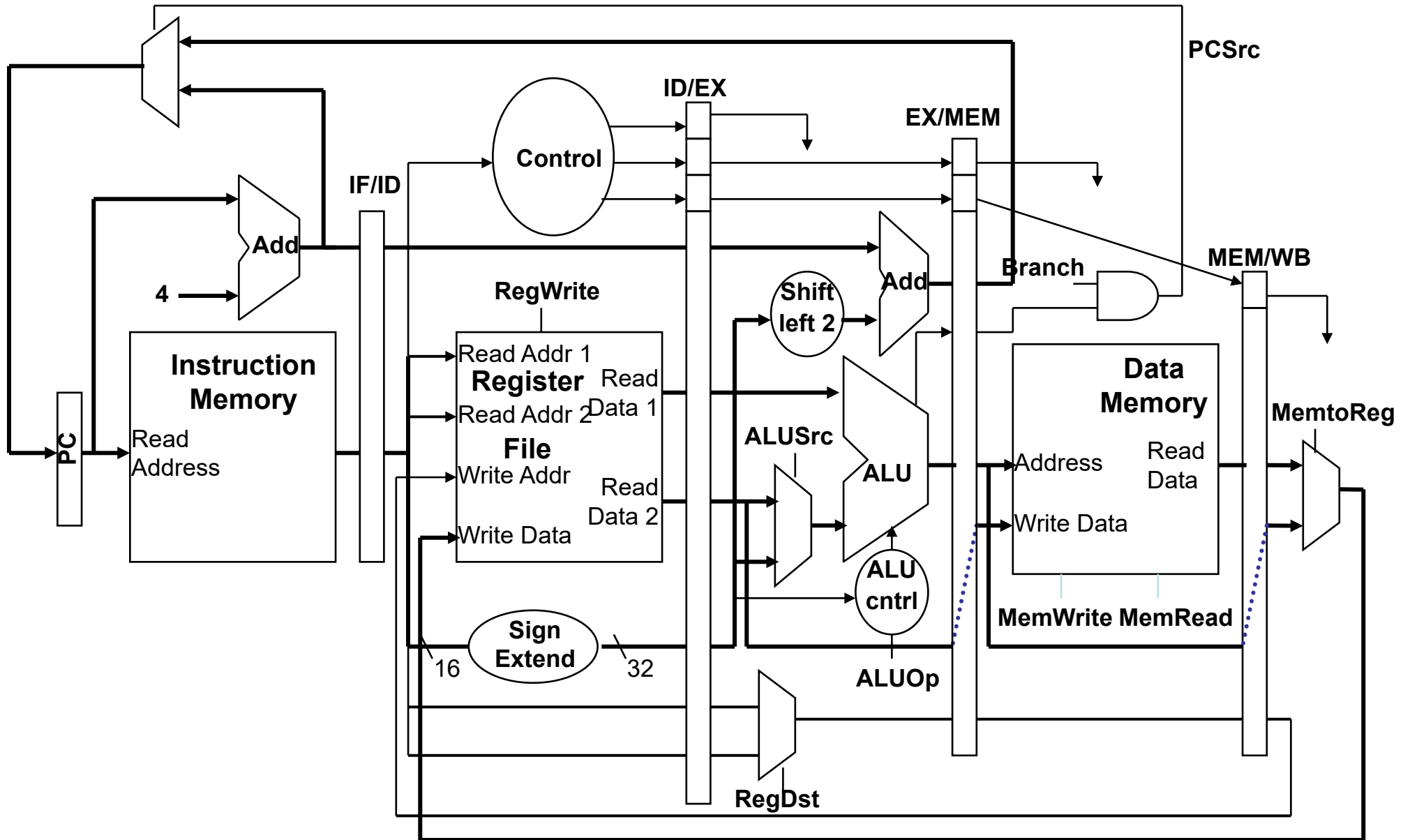


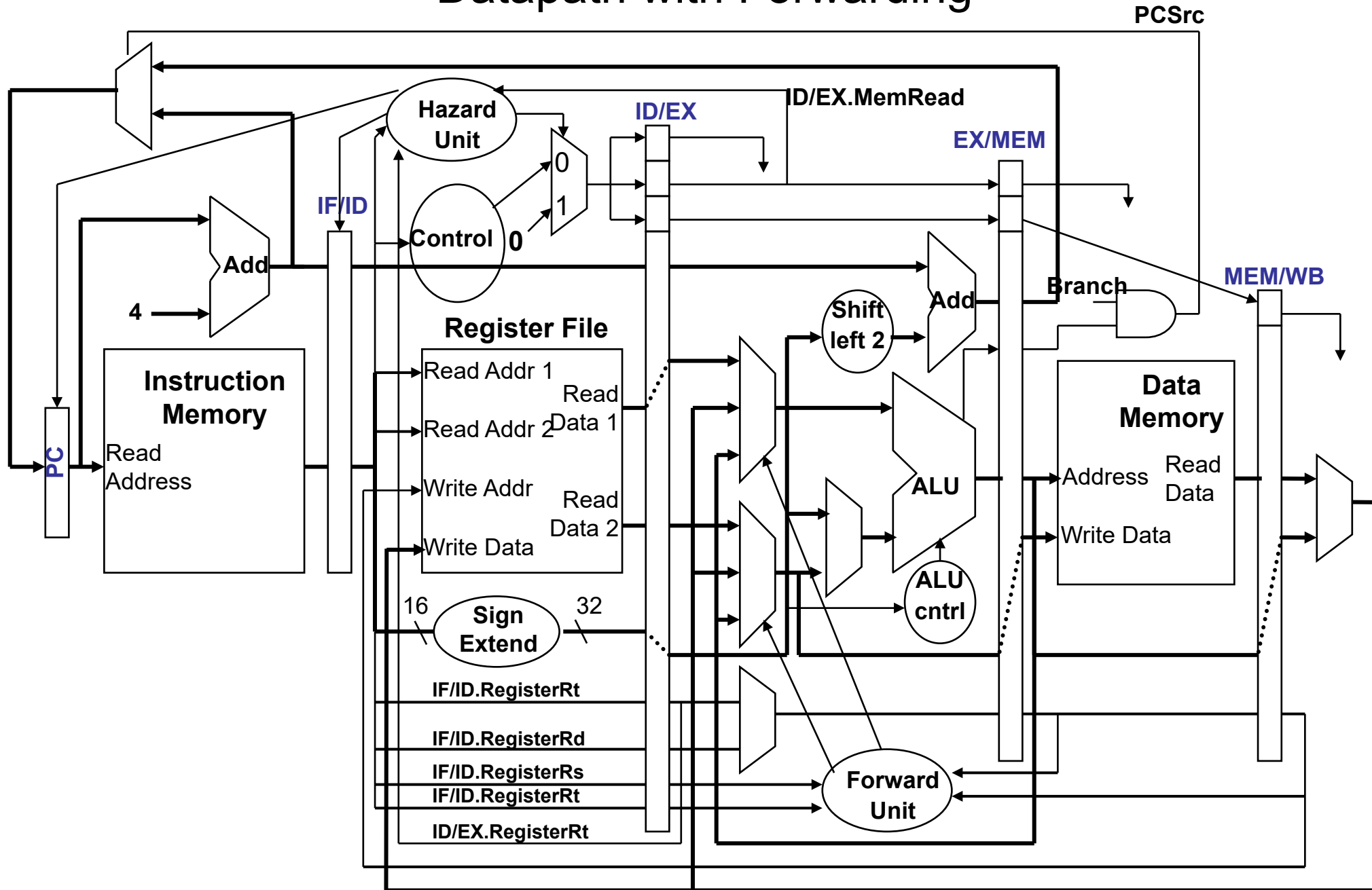
The Single cycle Datapath



Pipelined Datapath



Datapath with Forwarding



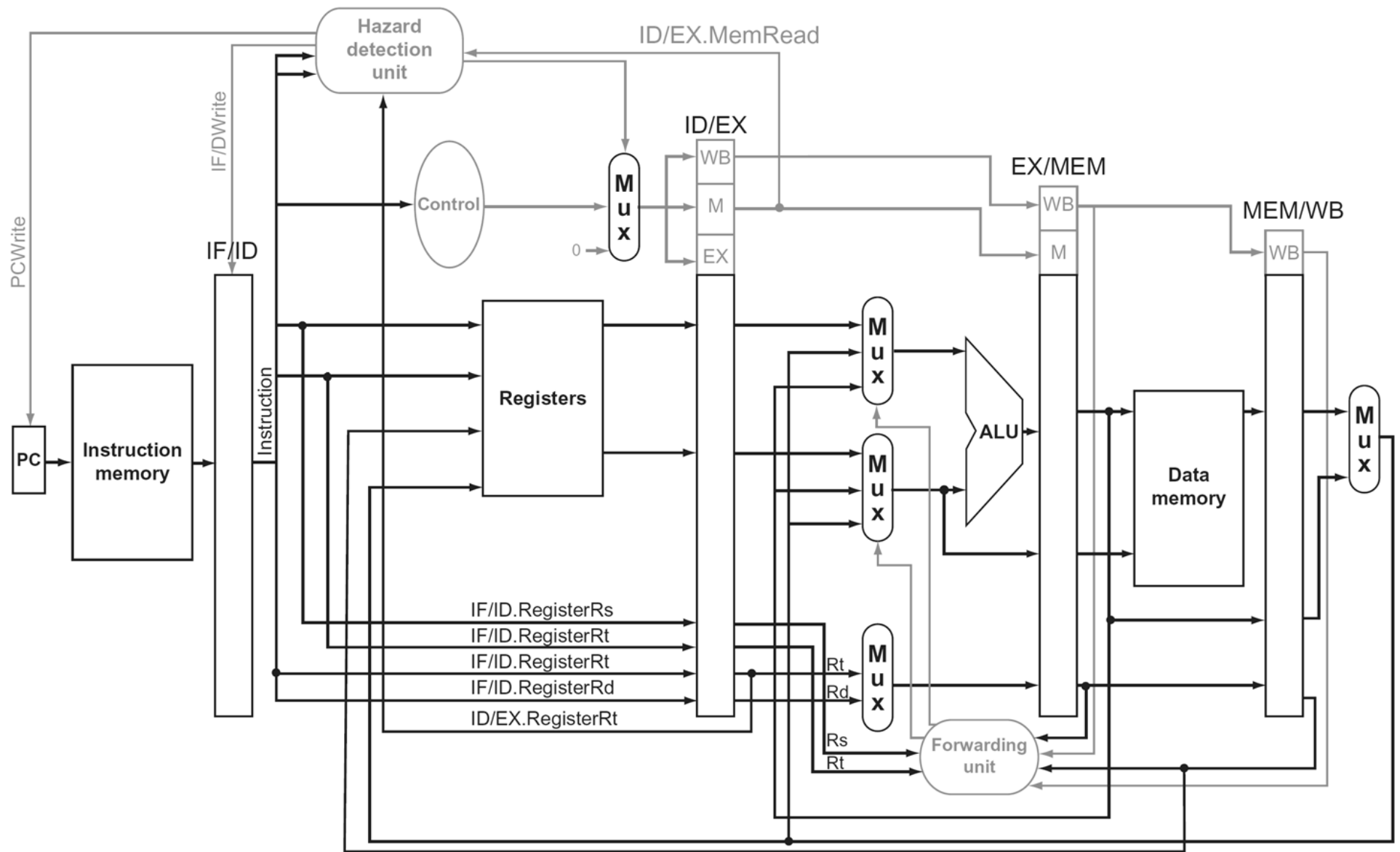


FIGURE 4.60 Pipelined control overview, showing the two multiplexors for forwarding, the hazard detection unit, and the forwarding unit. Although the ID and EX stages have been simplified—the sign-extended immediate and branch logic are missing