**EX Hazard**

if (EX/MEM.RegWrite and (EX/MEM.RegisterRd != 0) and

(EX/MEM.RegisterRd == ID/EX.RegisterRs)) ForwardA = 10

if (EX/MEM.RegWrite and (EX/MEM.RegisterRd != 0) and

(EX/MEM.RegisterRd == ID/EX.RegisterRt)) ForwardB = 10

**MEM Hazard**

if (MEM/WB.RegWrite and (MEM/WB.RegisterRd != 0) and

(MEM/WB.RegisterRd == ID/EX.RegisterRs)) ForwardA = 01

if (MEM/WB.RegWrite and (MEM/WB.RegisterRd != 0) and

(MEM/WB.RegisterRd == ID/EX.RegisterRt)) ForwardB = 01