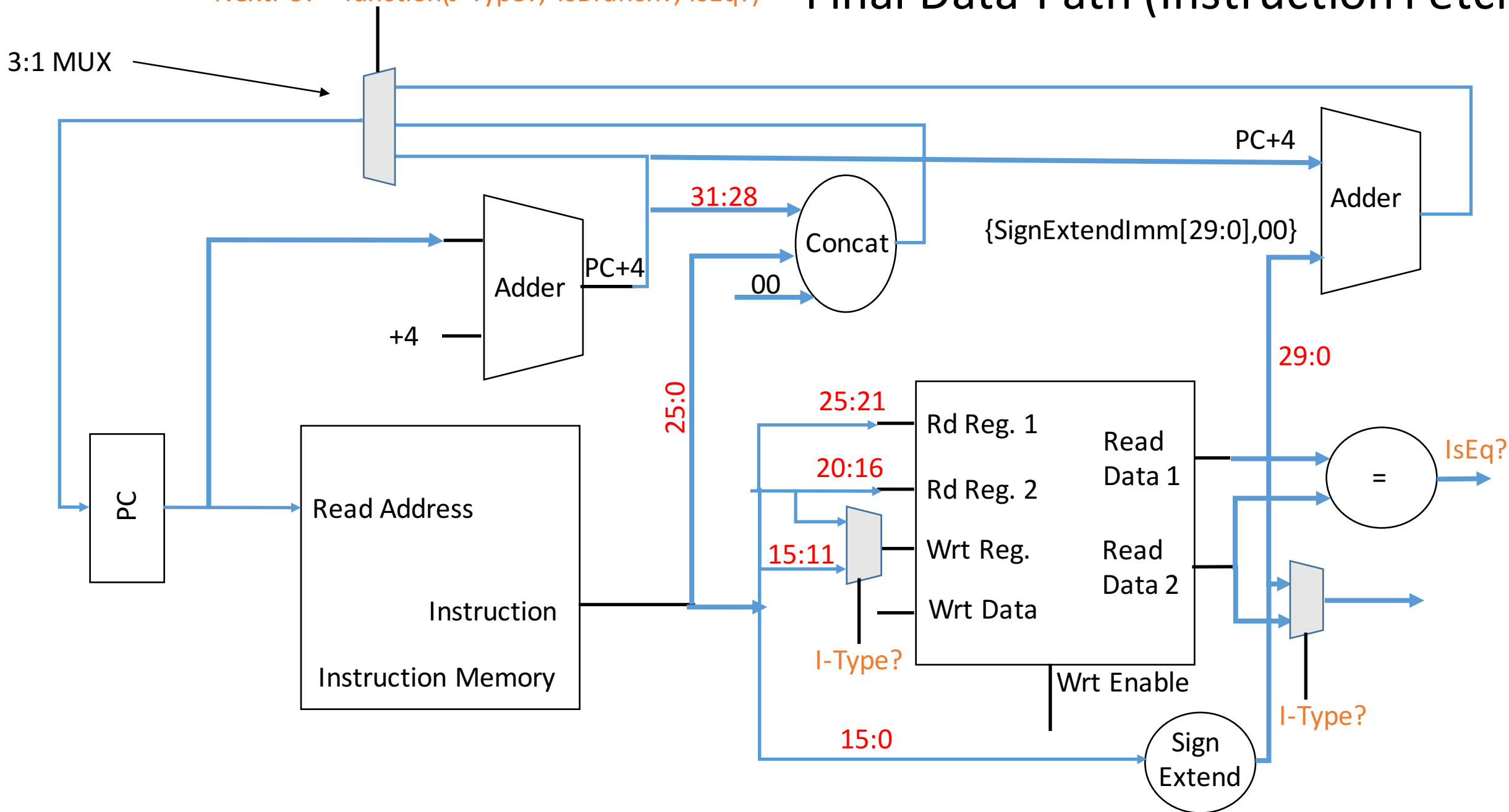


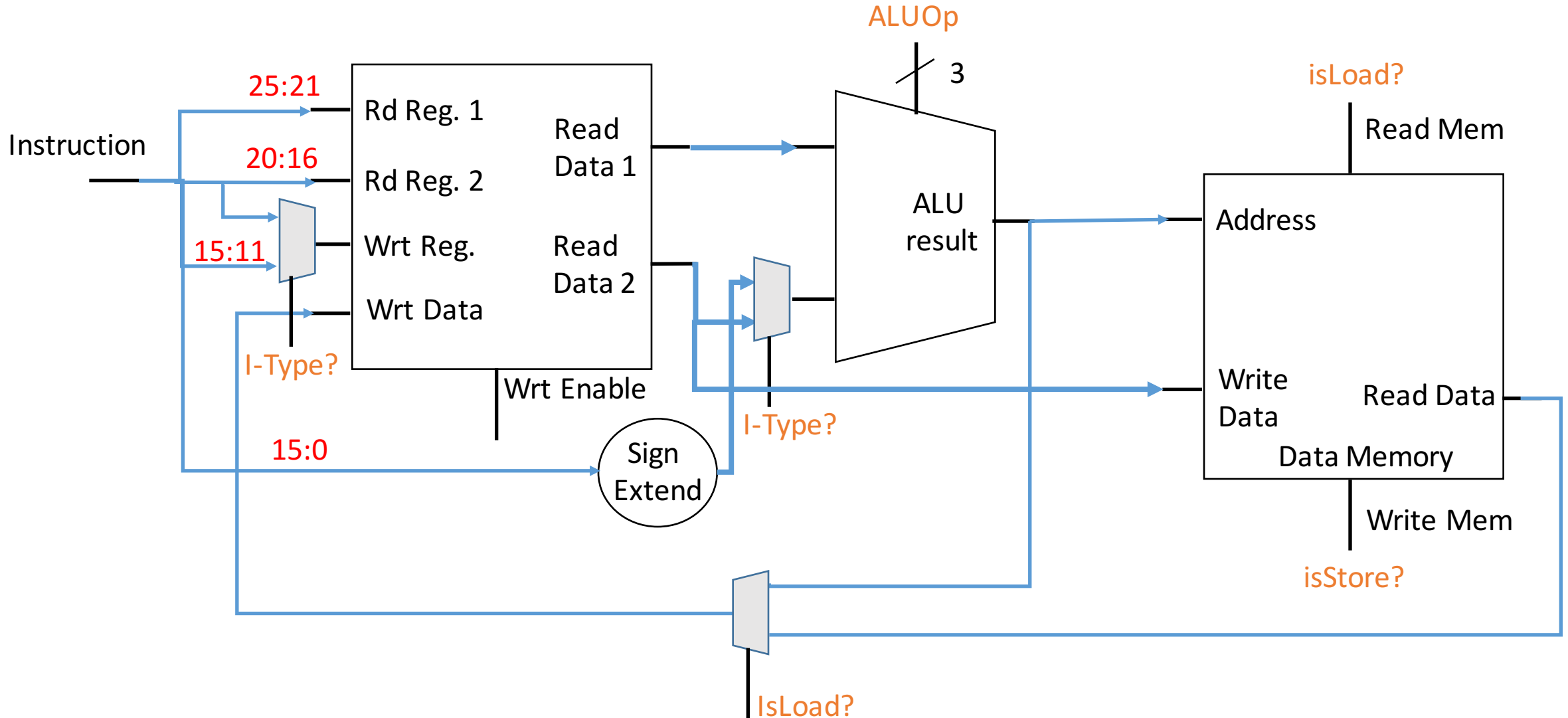
Final Data-Path (Instruction Fetch)

NextPC? = function(J-Type?, IsBranch?, IsEq?)

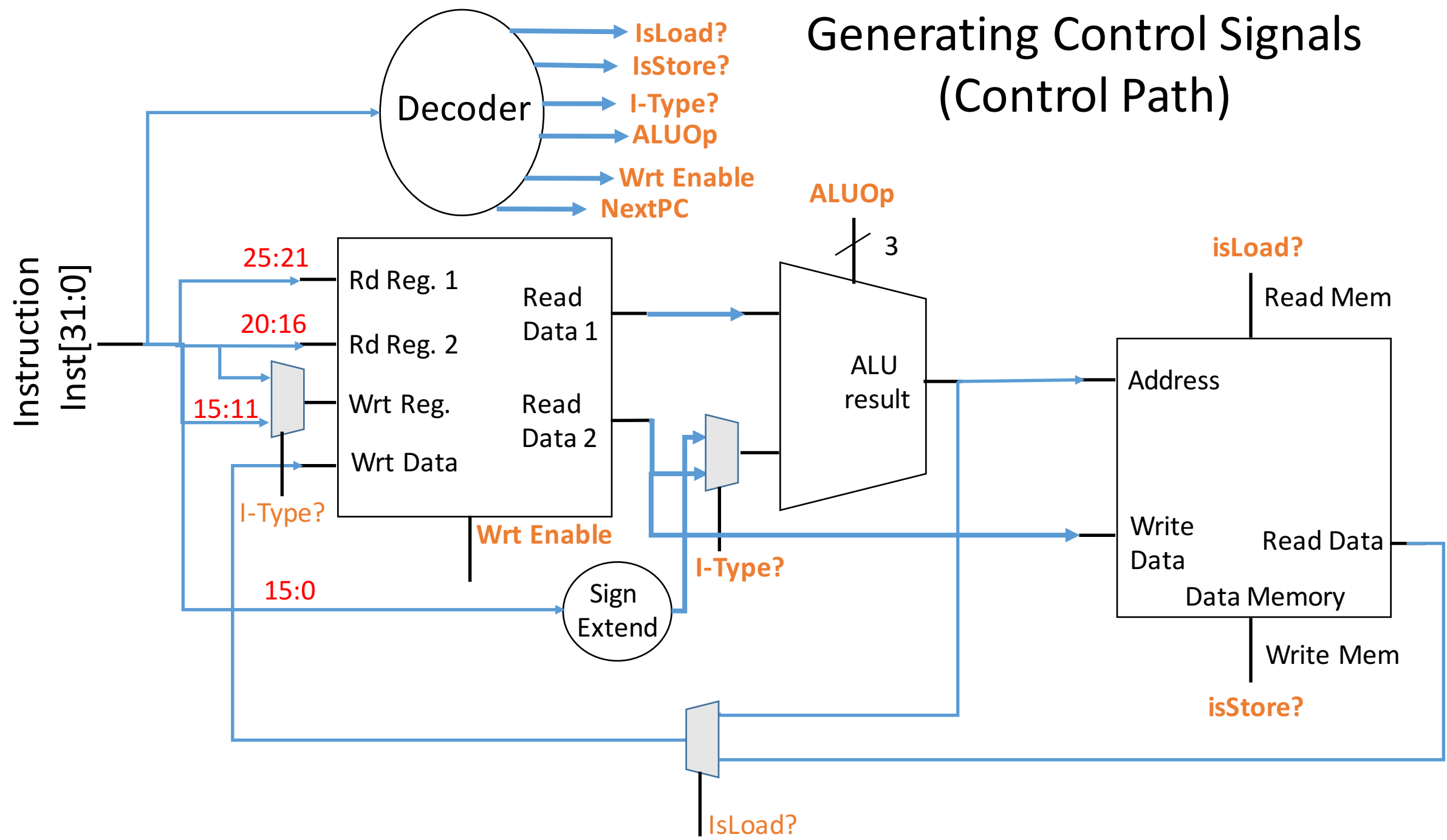
3:1 MUX

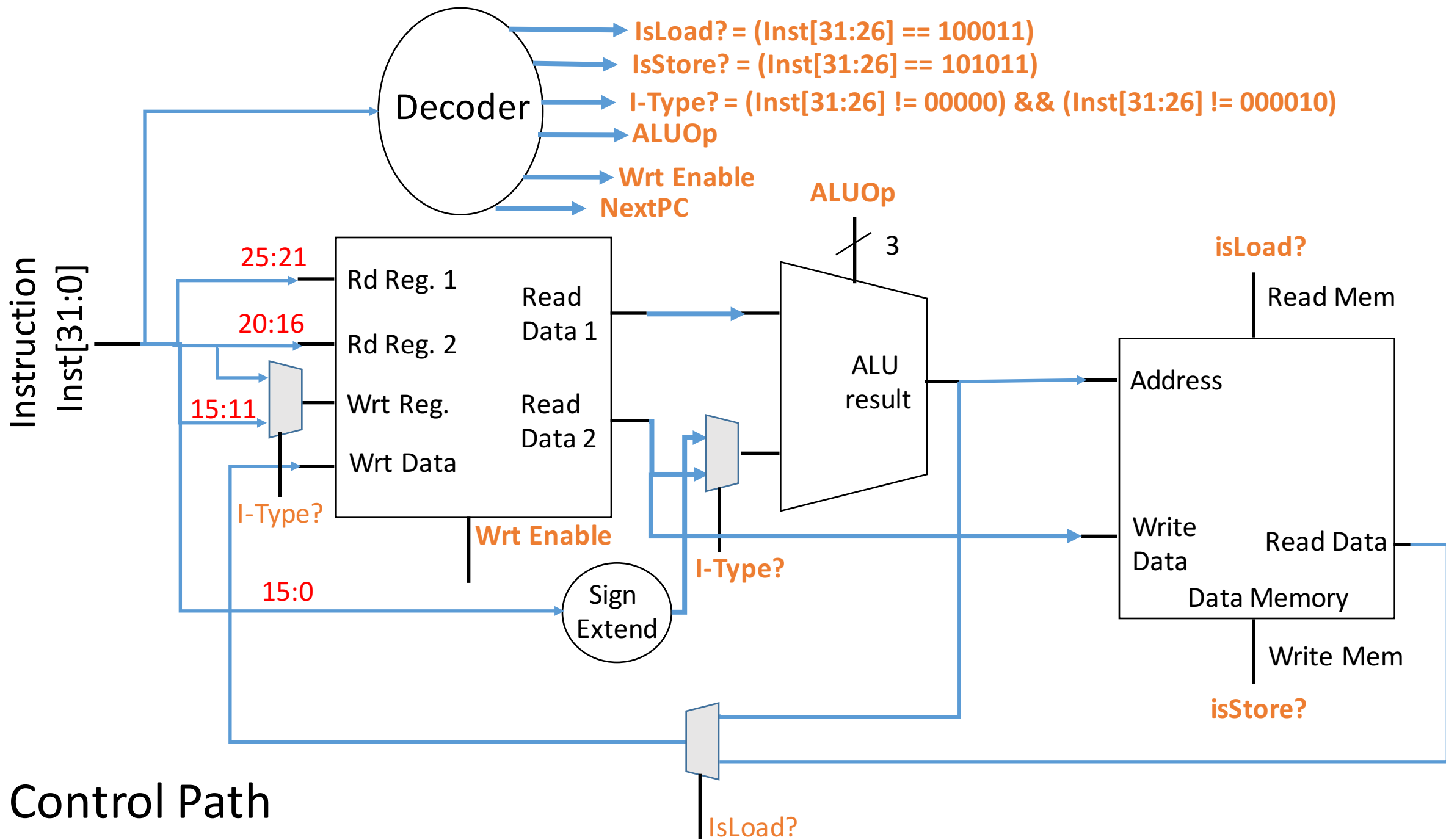


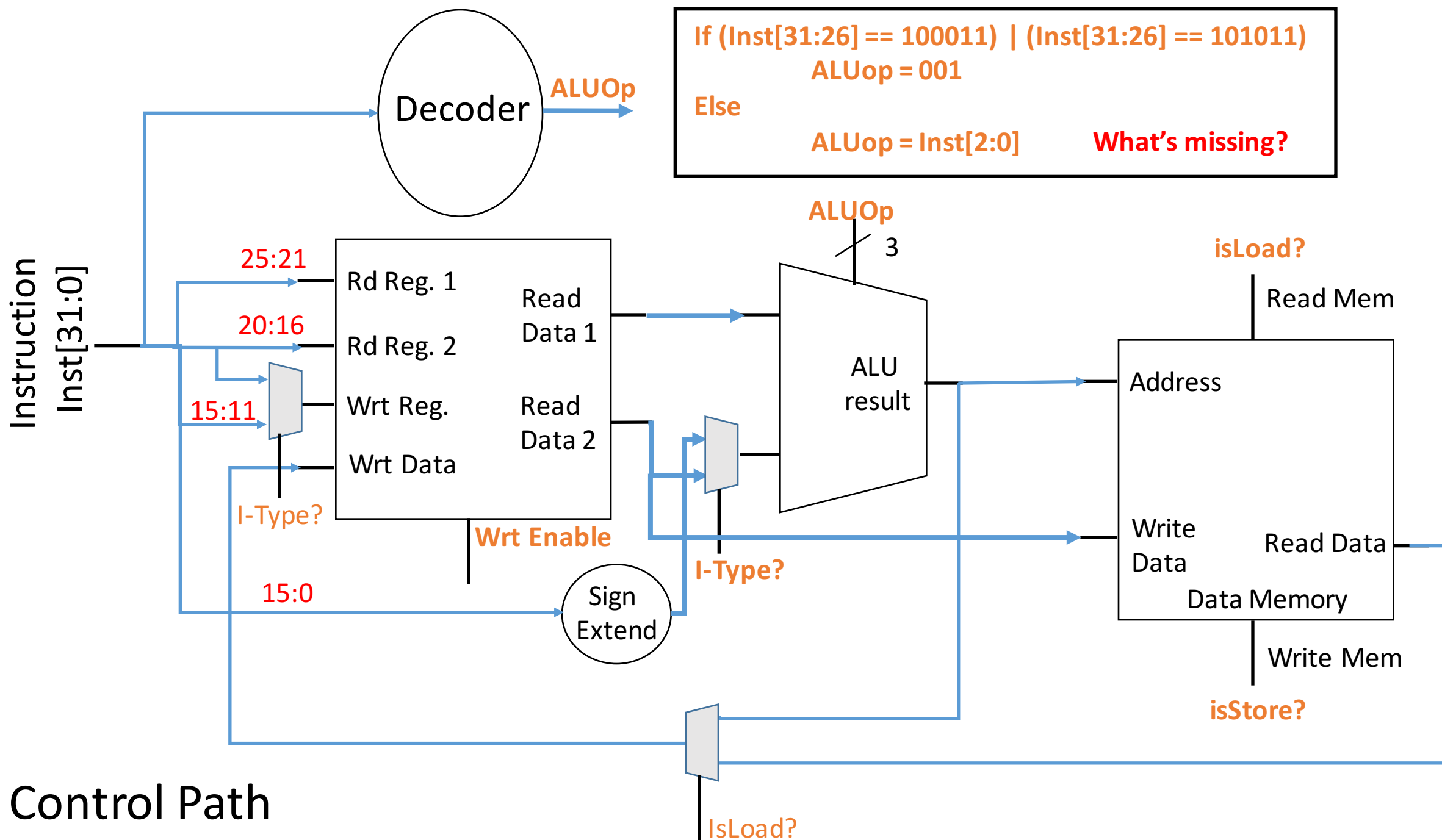
Final Data-Path (Reg Rd/Execute/Mem/Write-back)



Instruction Fetch Part Not Shown



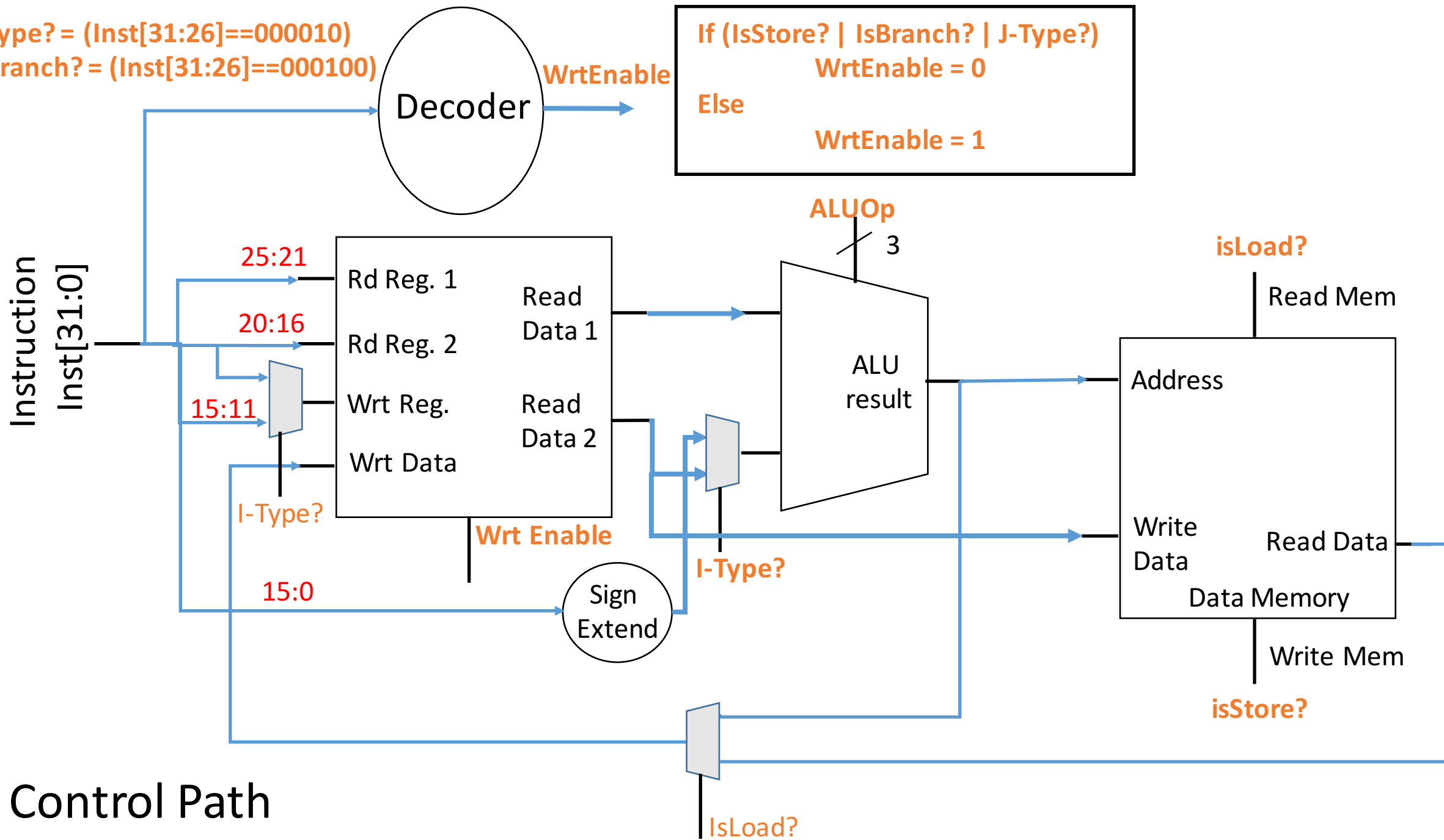




```
If (Inst[31:26] == 100011) | (Inst[31:26] == 101011)
    ALUOp = 001
Else If (Inst[31:26] == 000000)
    ALUOp = Inst[2:0]
Else
    ALUOp = Inst[28:26]
```

Control Path

J-Type? = (Inst[31:26]==000010)
IsBranch? = (Inst[31:26]==000100)



Instruction Fetch Part Not Shown

