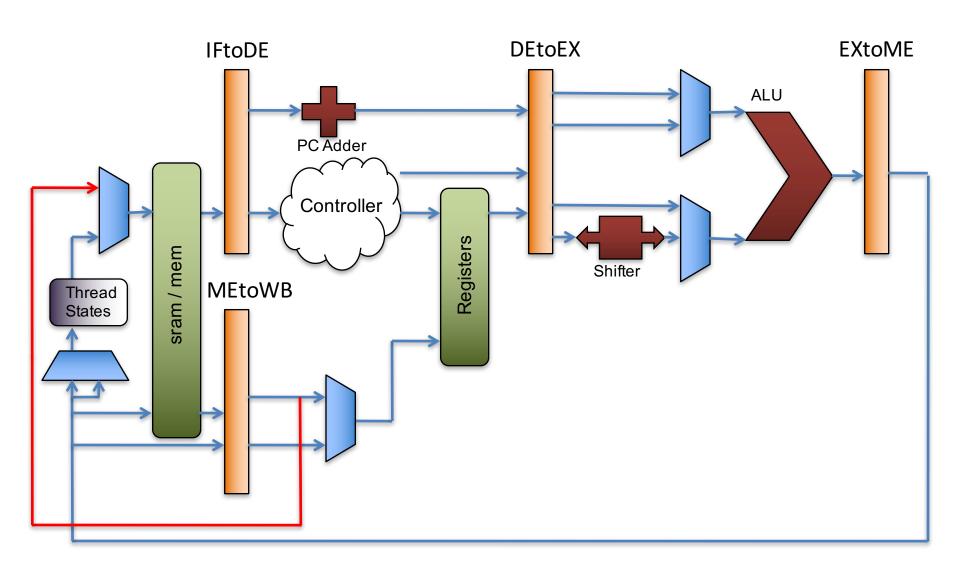
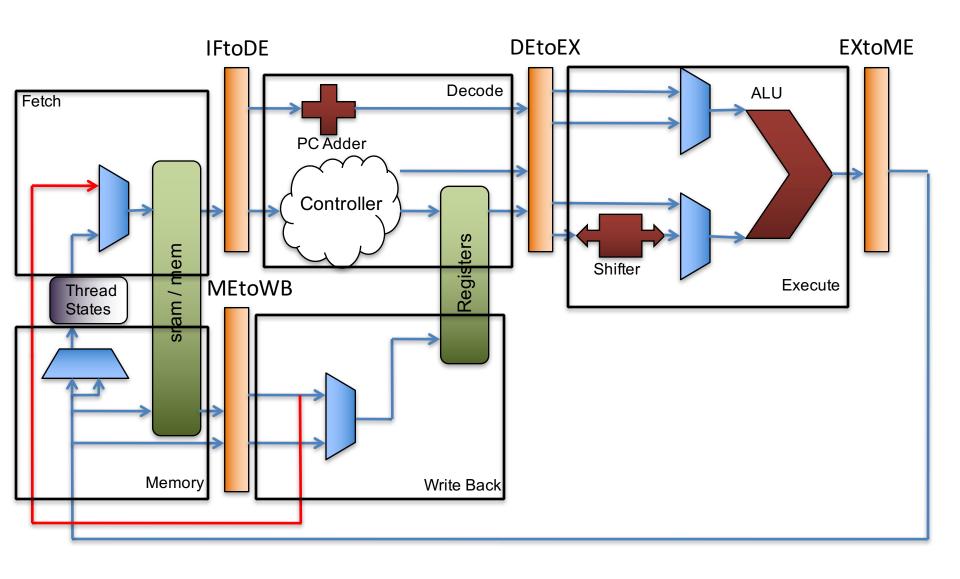
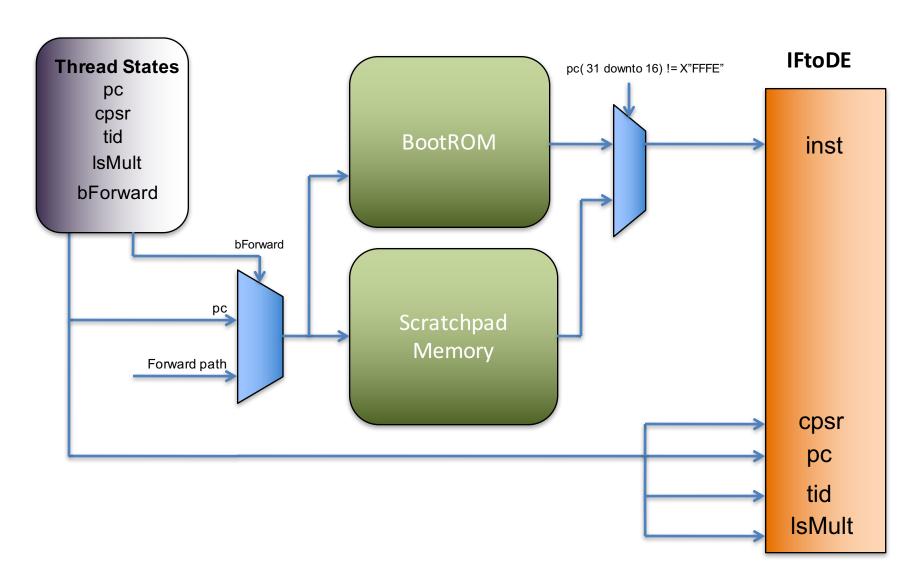
Ptarm 5 stage pipeline



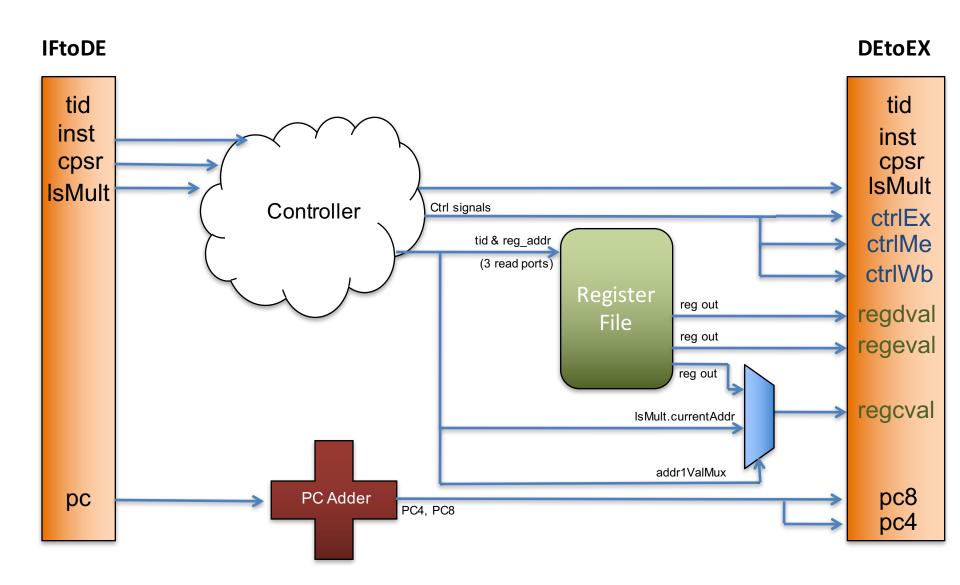
Ptarm 5 stage pipeline

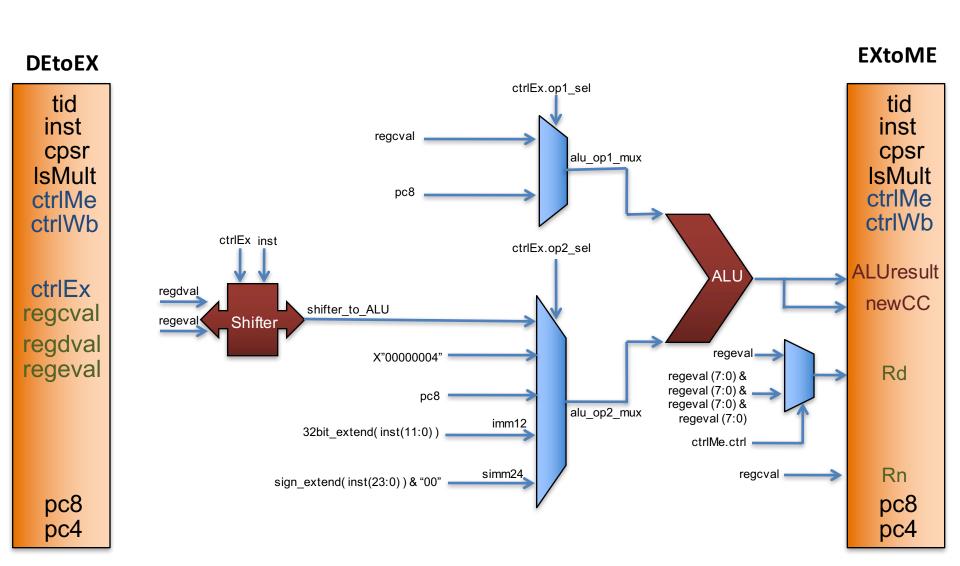


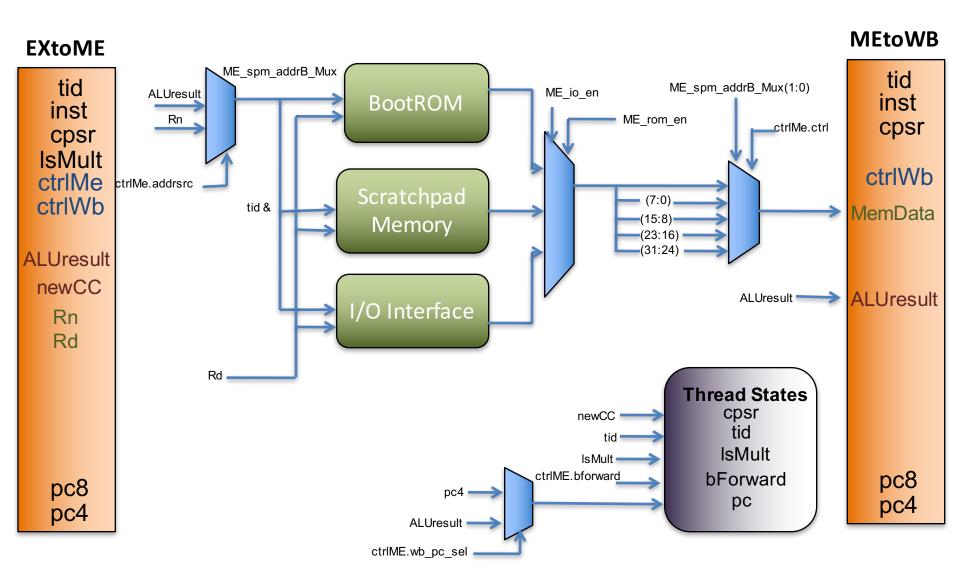
Fetch Stage



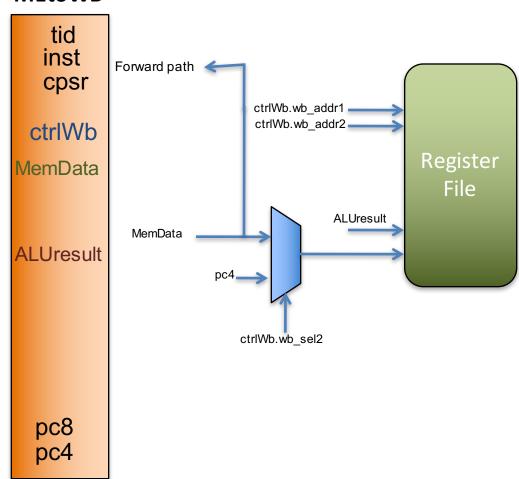
Decode Stage



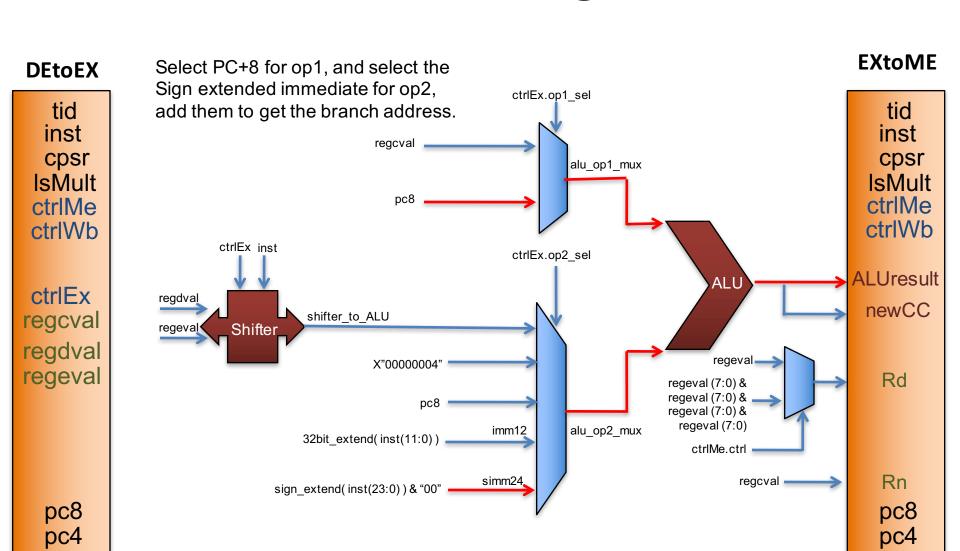


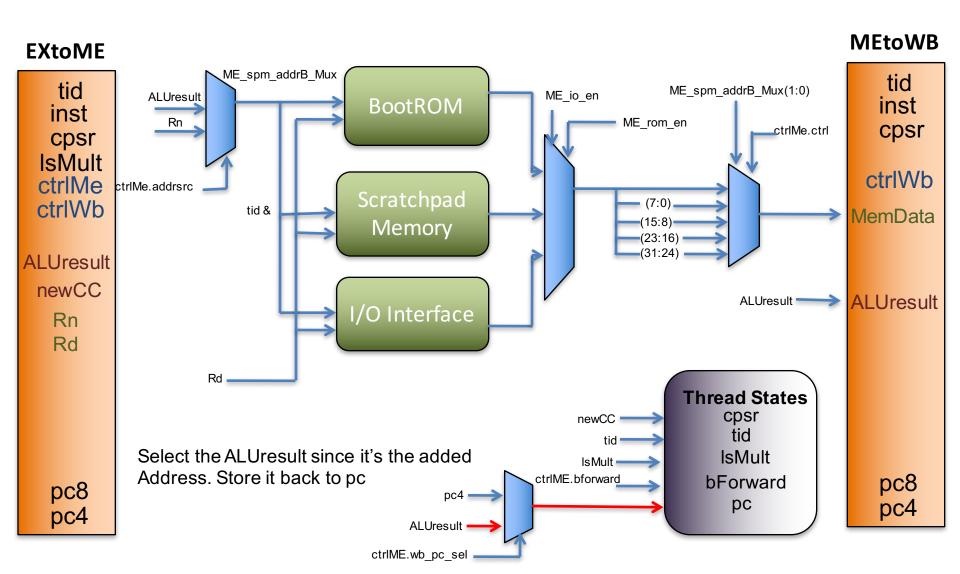


MEtoWB

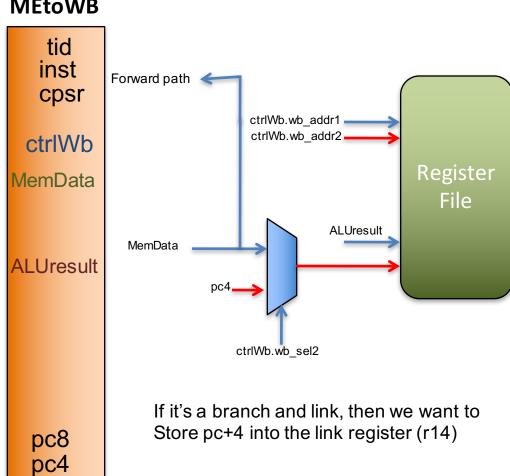


Branch/Branch Link Instructions

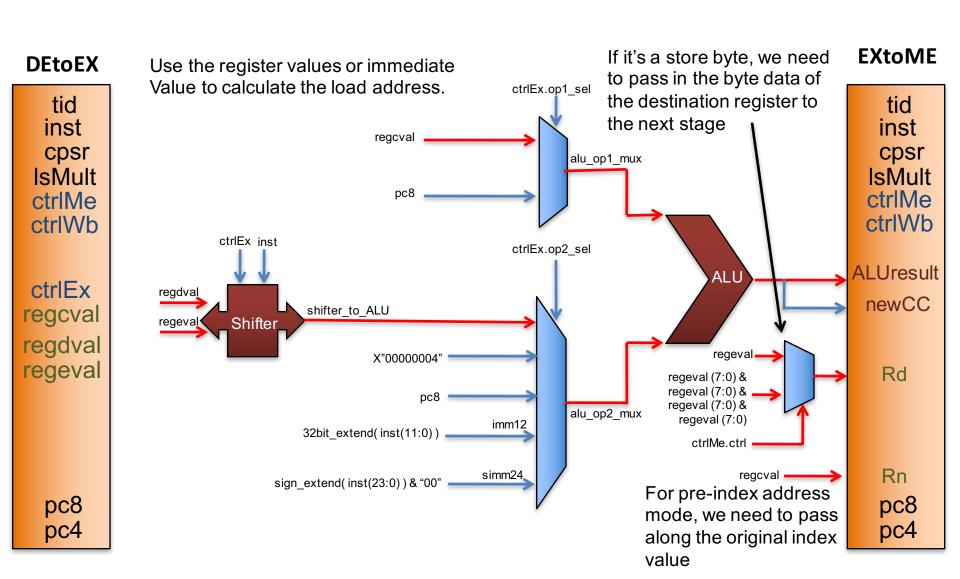


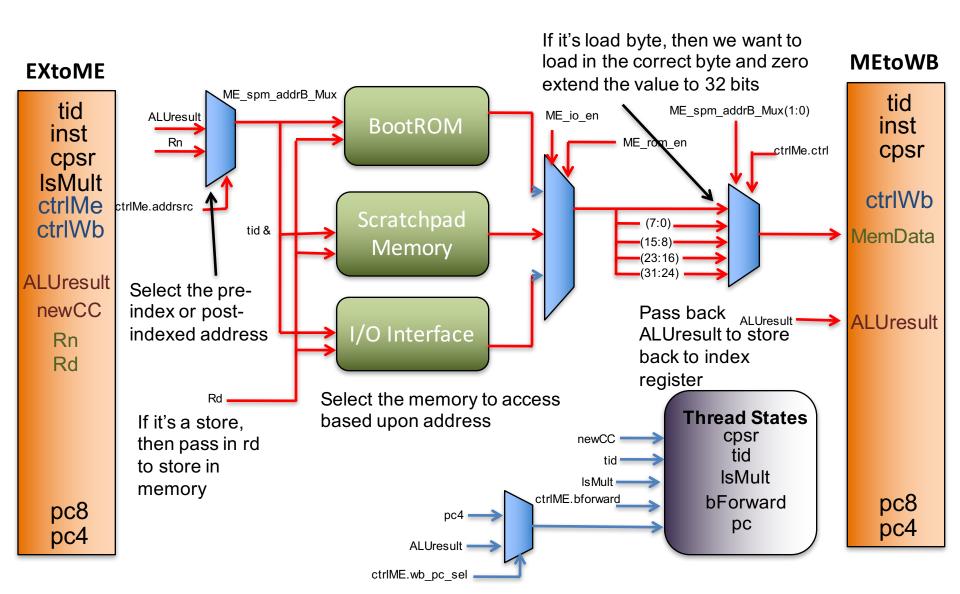


MEtoWB

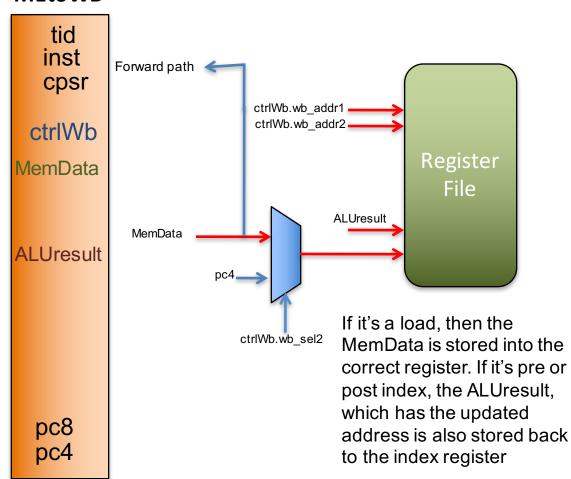


Load/Store Instructions

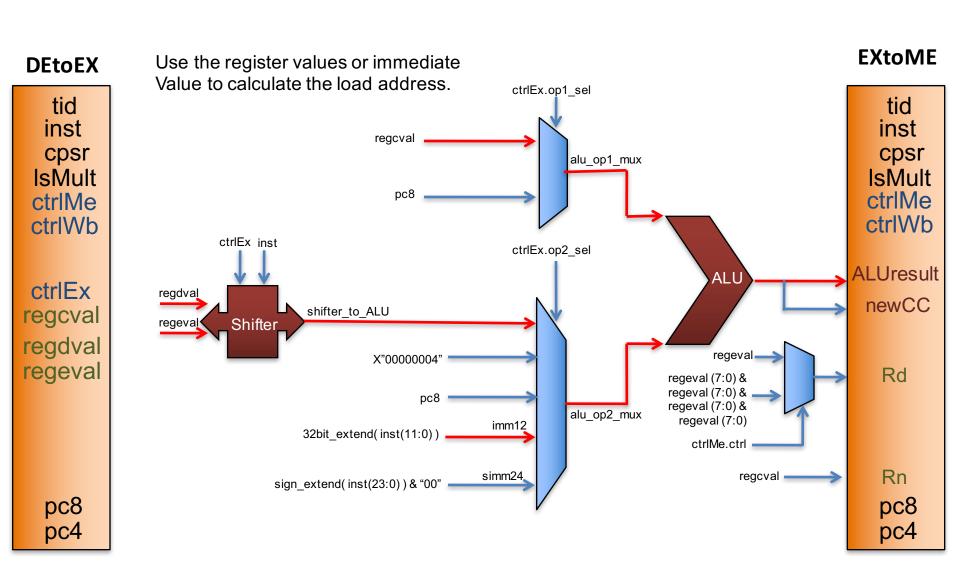


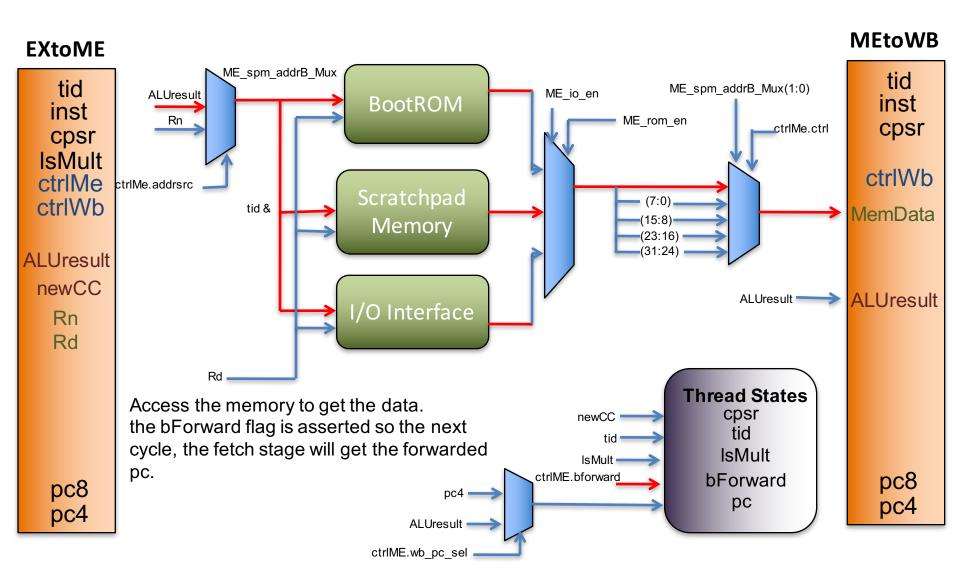


MEtoWB



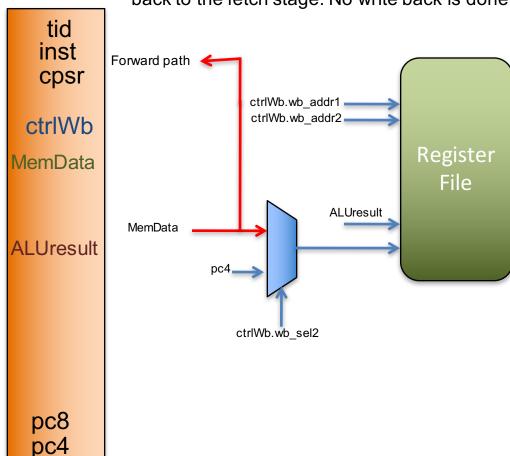
Load to R15 Instruction



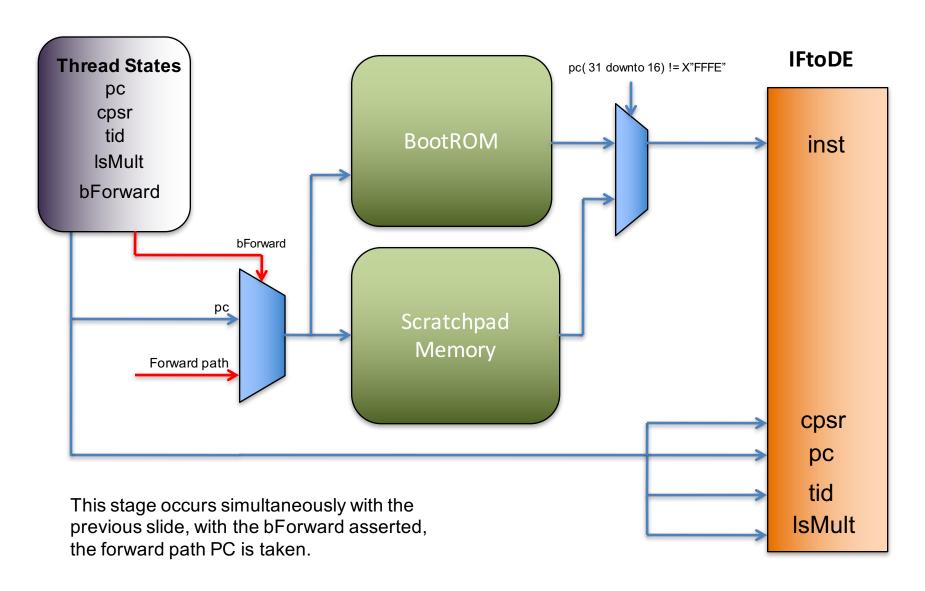


MEtoWB

The pc value from memory is forwarded back to the fetch stage. No write back is done.

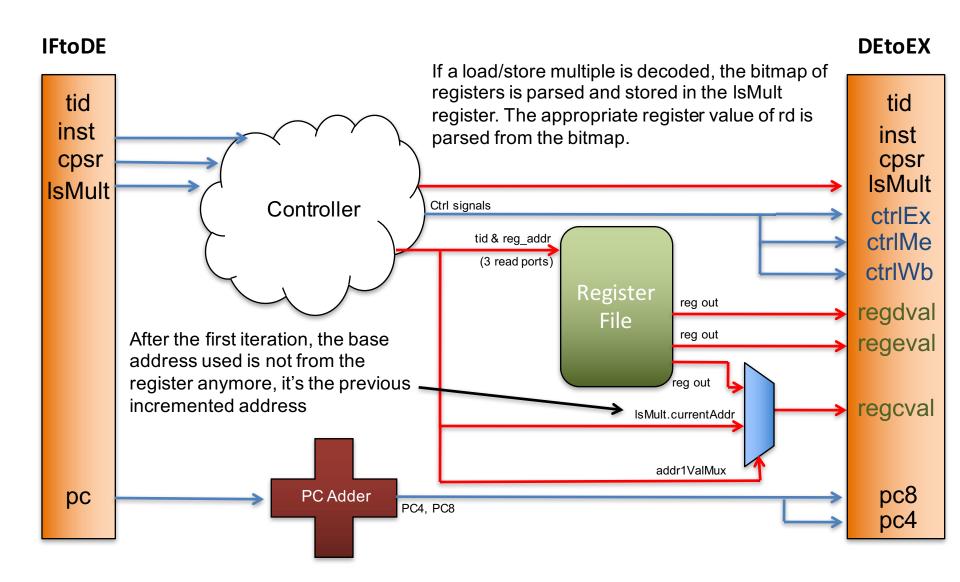


Fetch Stage



Load/Store Multiple Instructions

Decode Stage

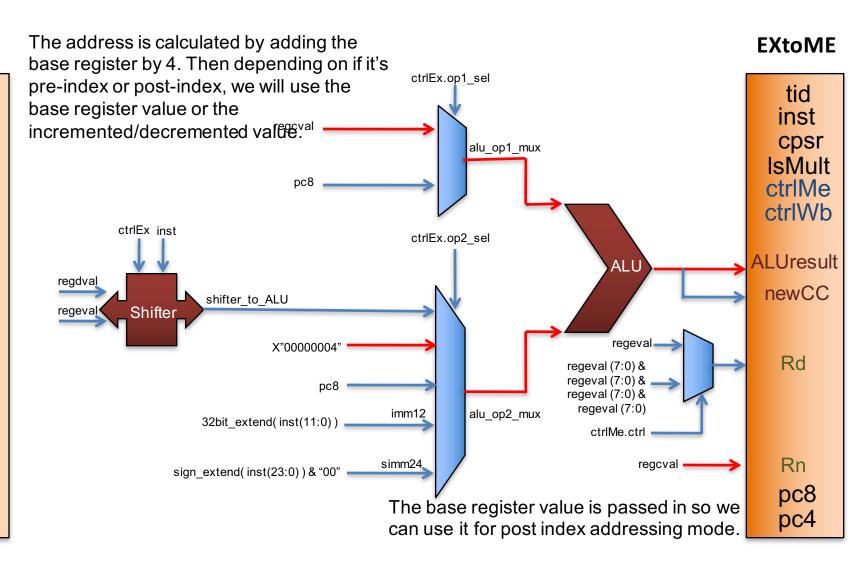


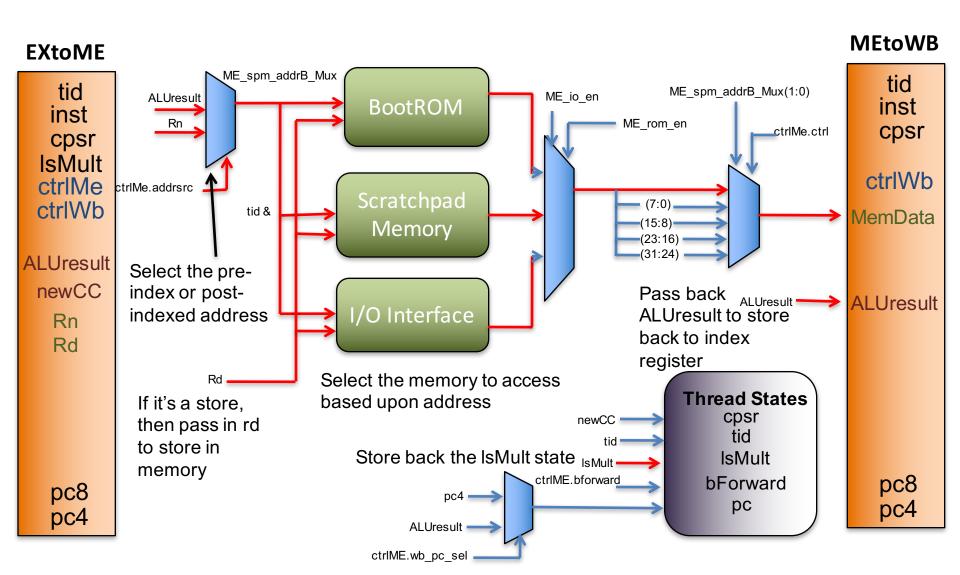
DEtoEX

tid inst cpsr IsMult ctrlMe ctrlWb

ctrlEx regcval regdval regeval

> pc8 pc4





MEtoWB

