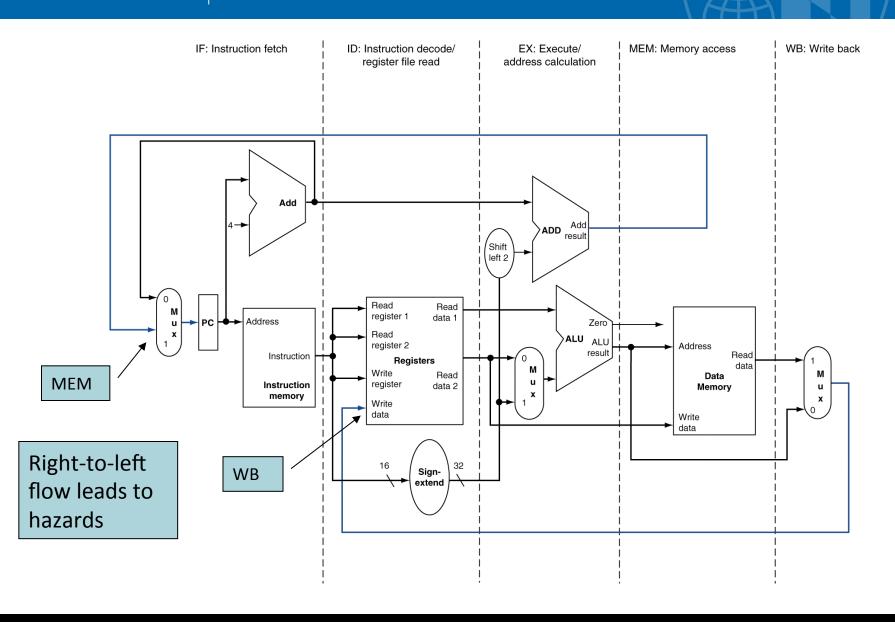
MIPS Pipelined Datapath

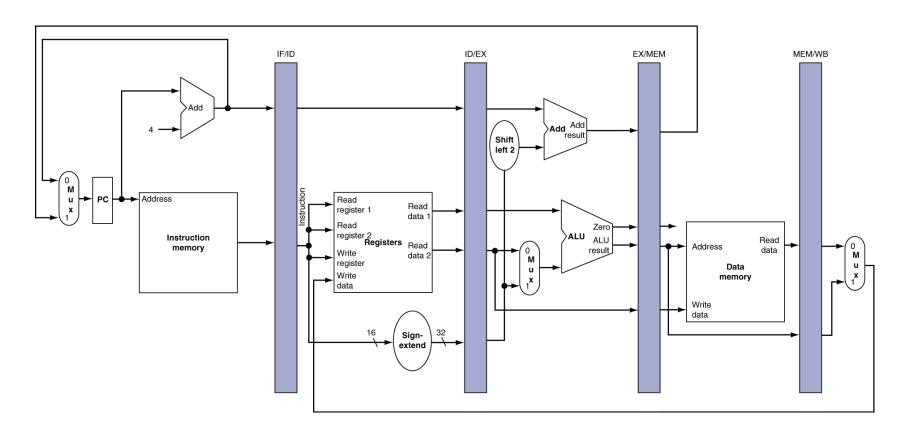


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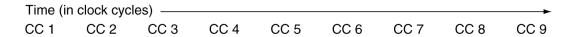
Engineering for Professionals Pipeline Registers

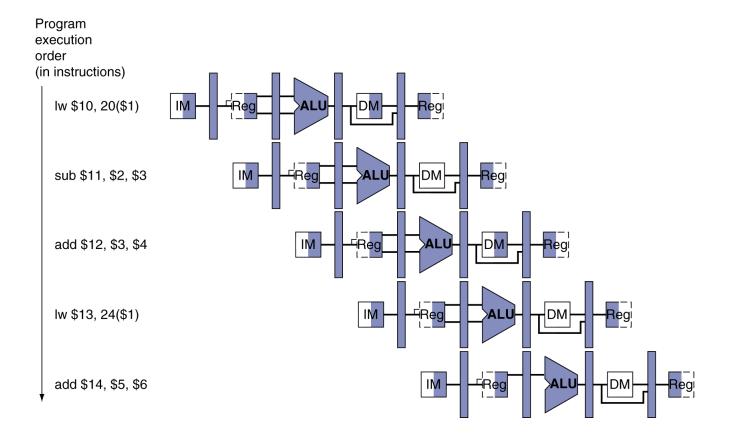
- Need registers between stages
 - To hold information produced in previous cycle



Pipeline Diagram

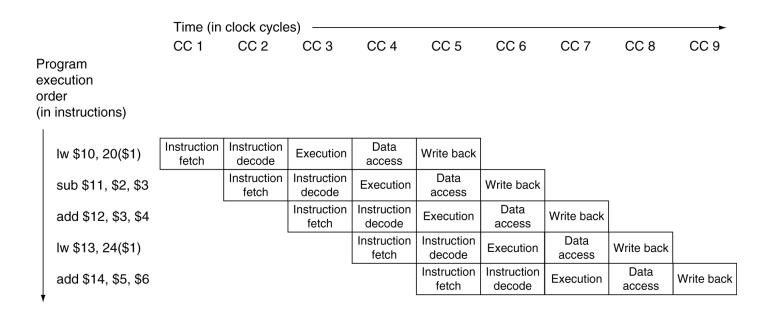
Form showing resource usage





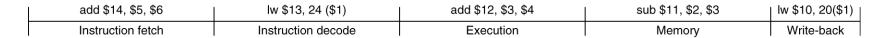
Pipeline Diagram

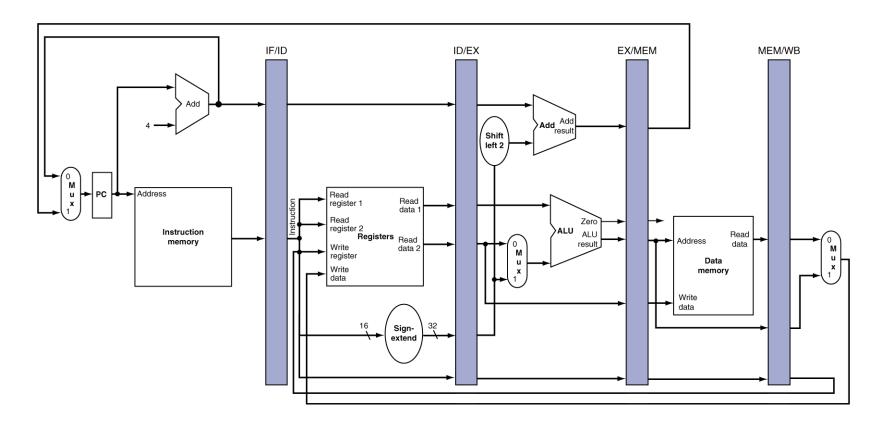
Traditional form



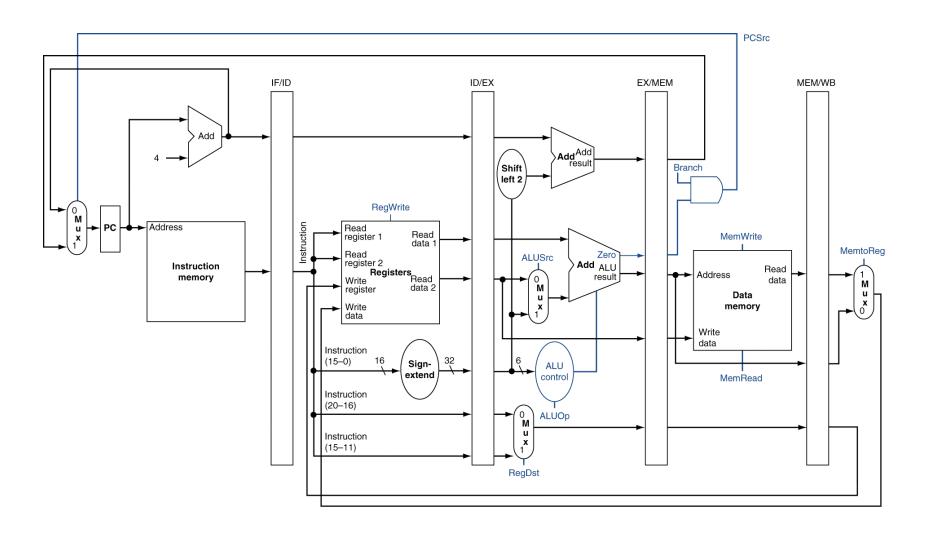
Pipeline Diagram

State of pipeline in a given cycle



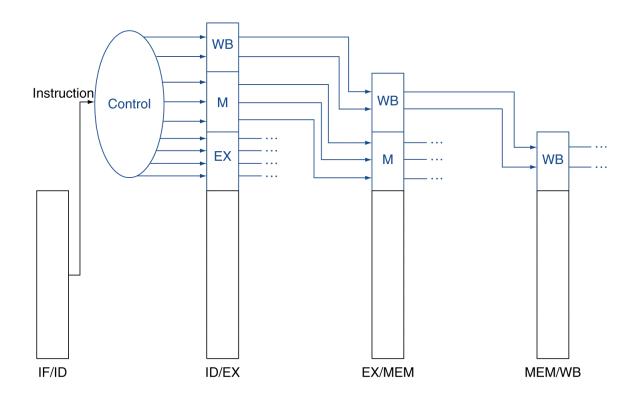


Pipelined Control



Pipelined Control

- Control signals derived from instruction
 - As in single-cycle implementation



Pipelined Control

