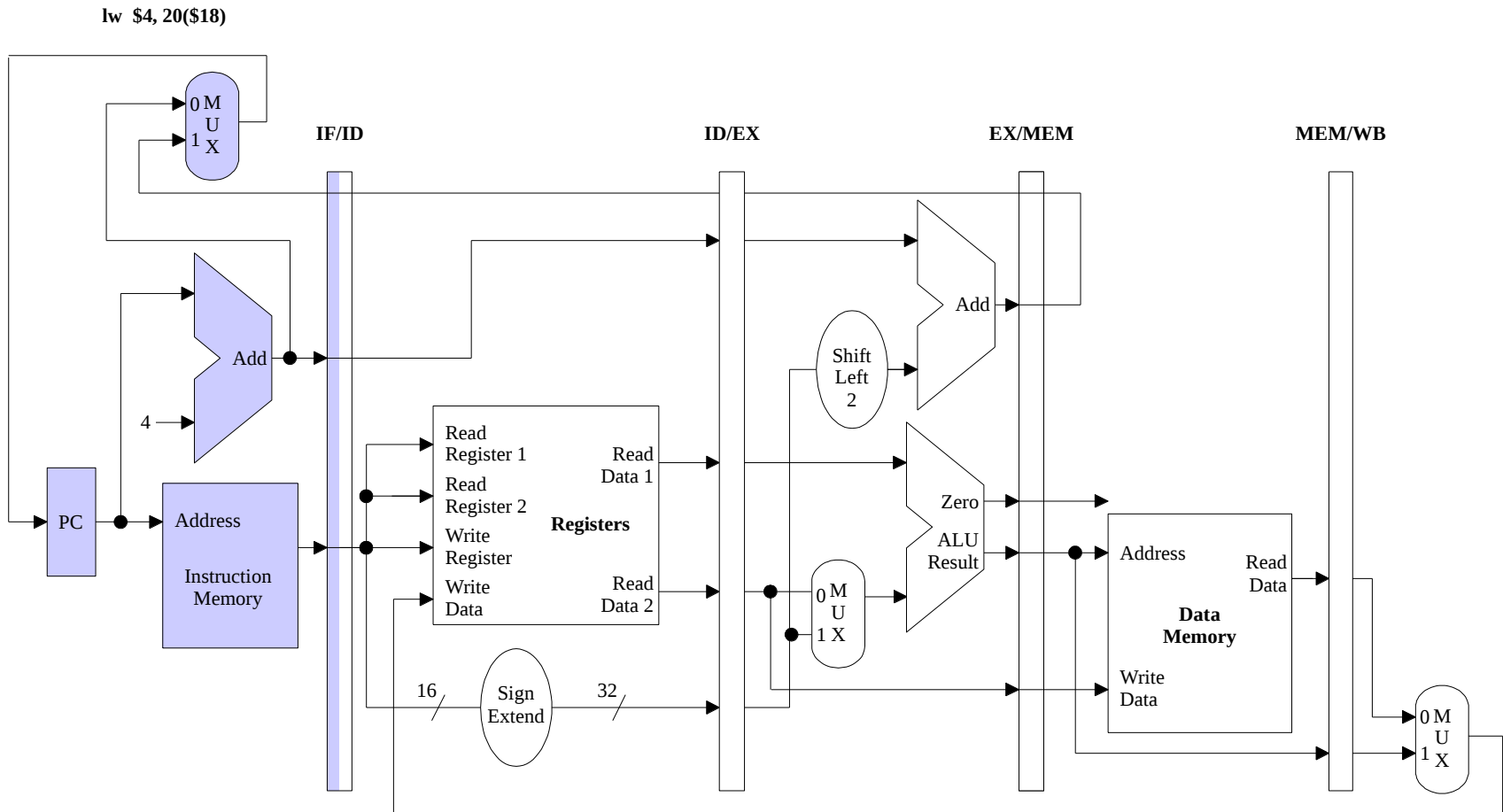




Pipelining Example

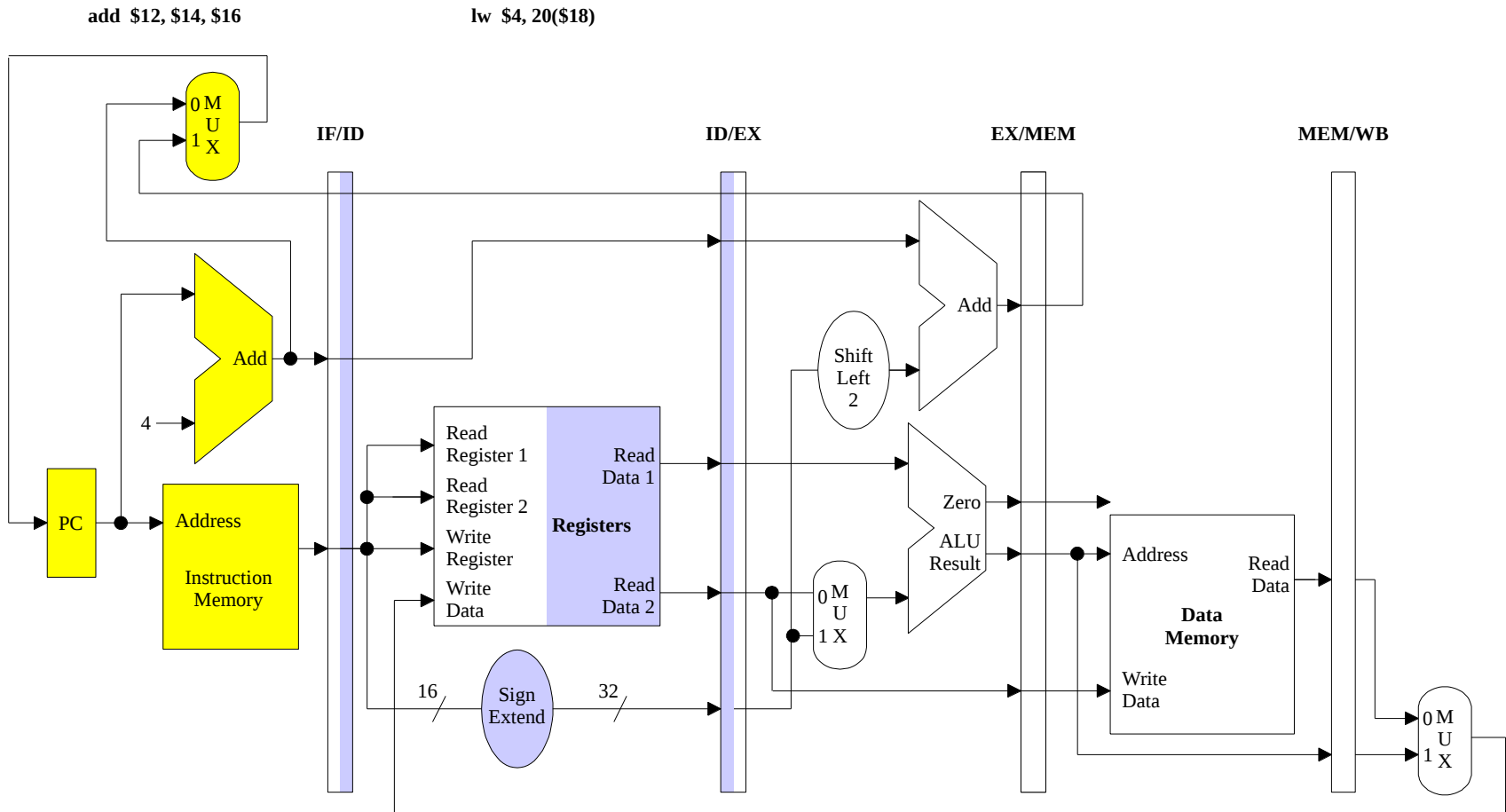
From Kris D. Schindler

Pipelined Datapath



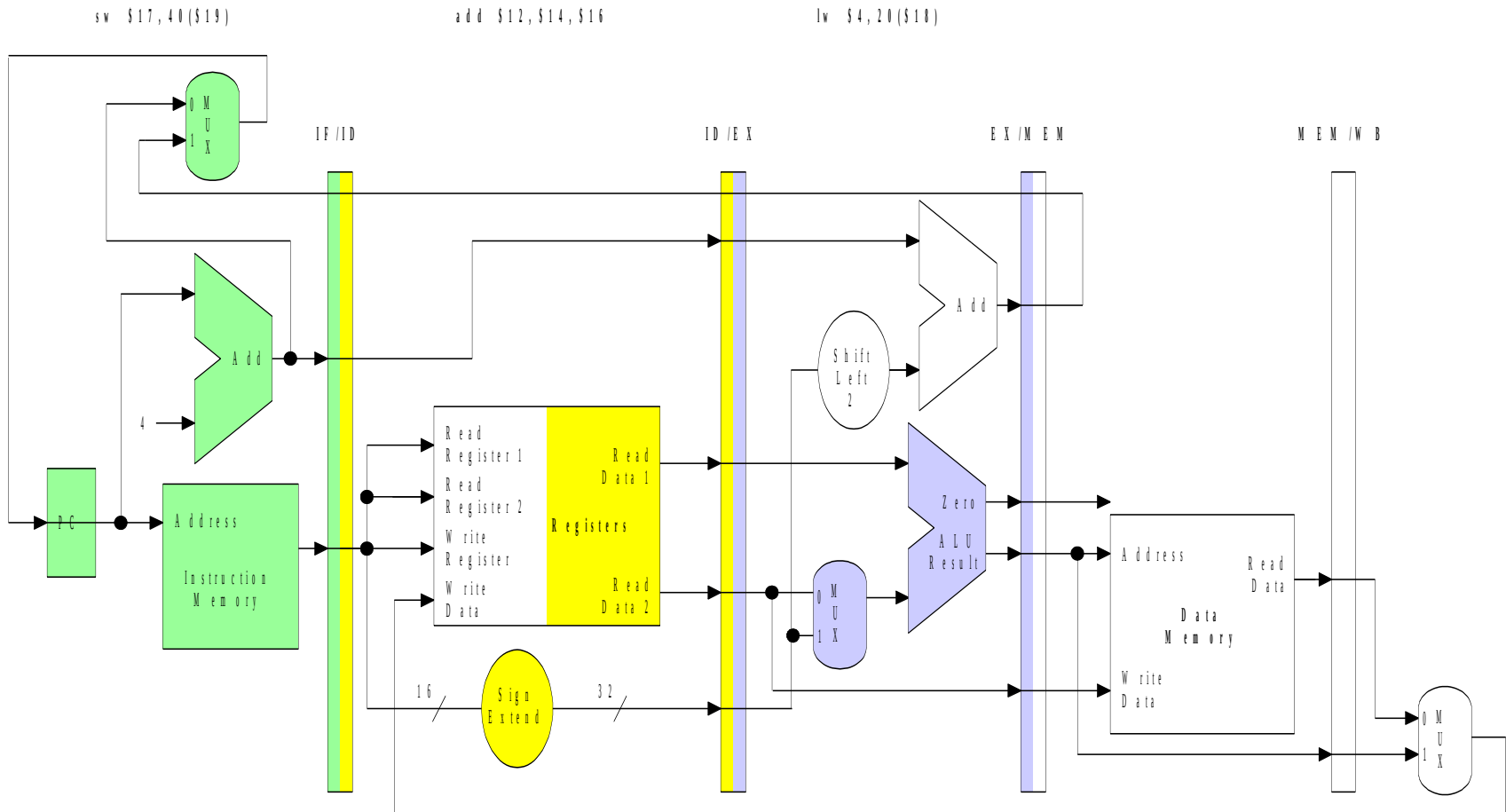
David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath



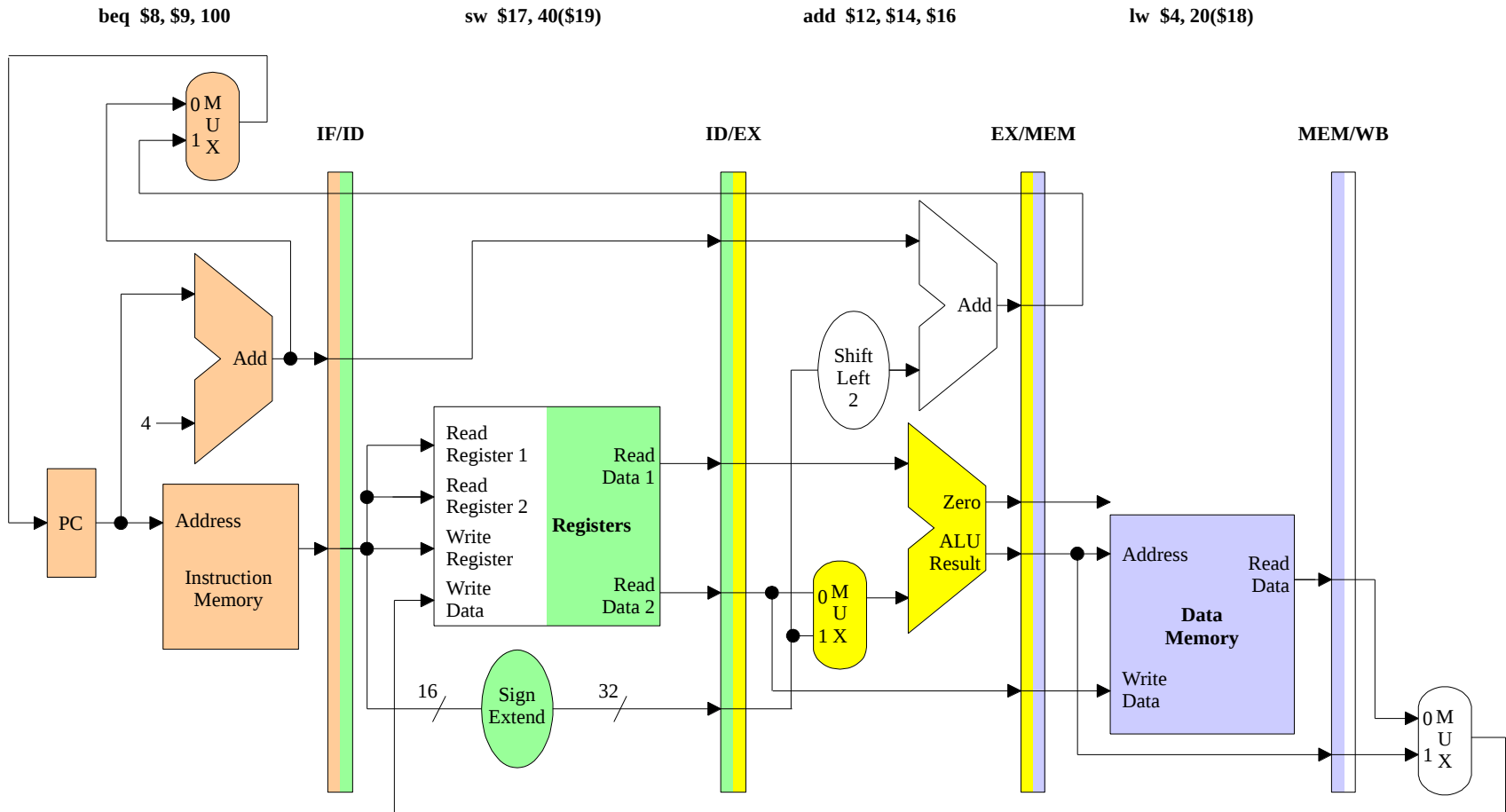
David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath



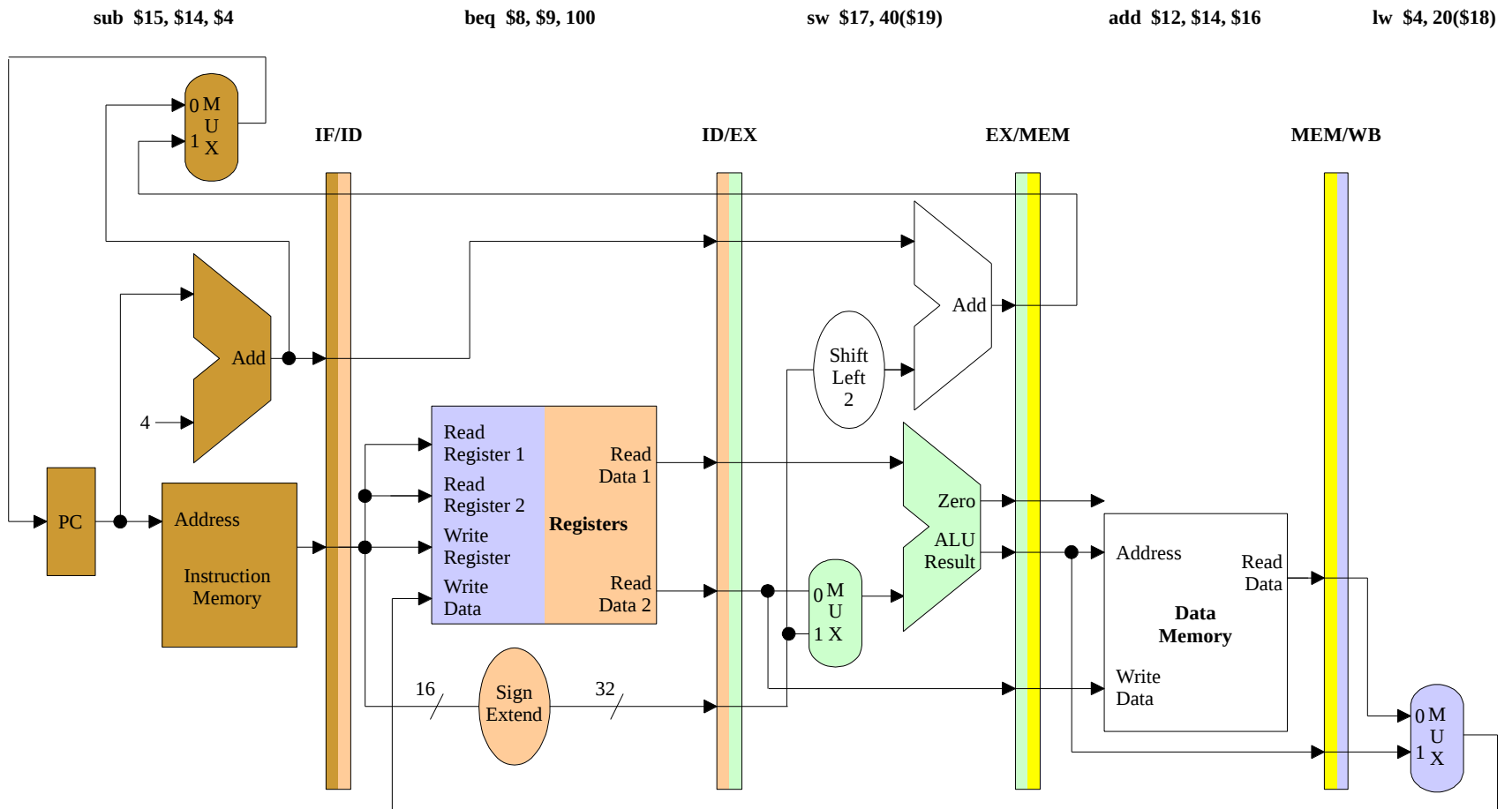
David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath



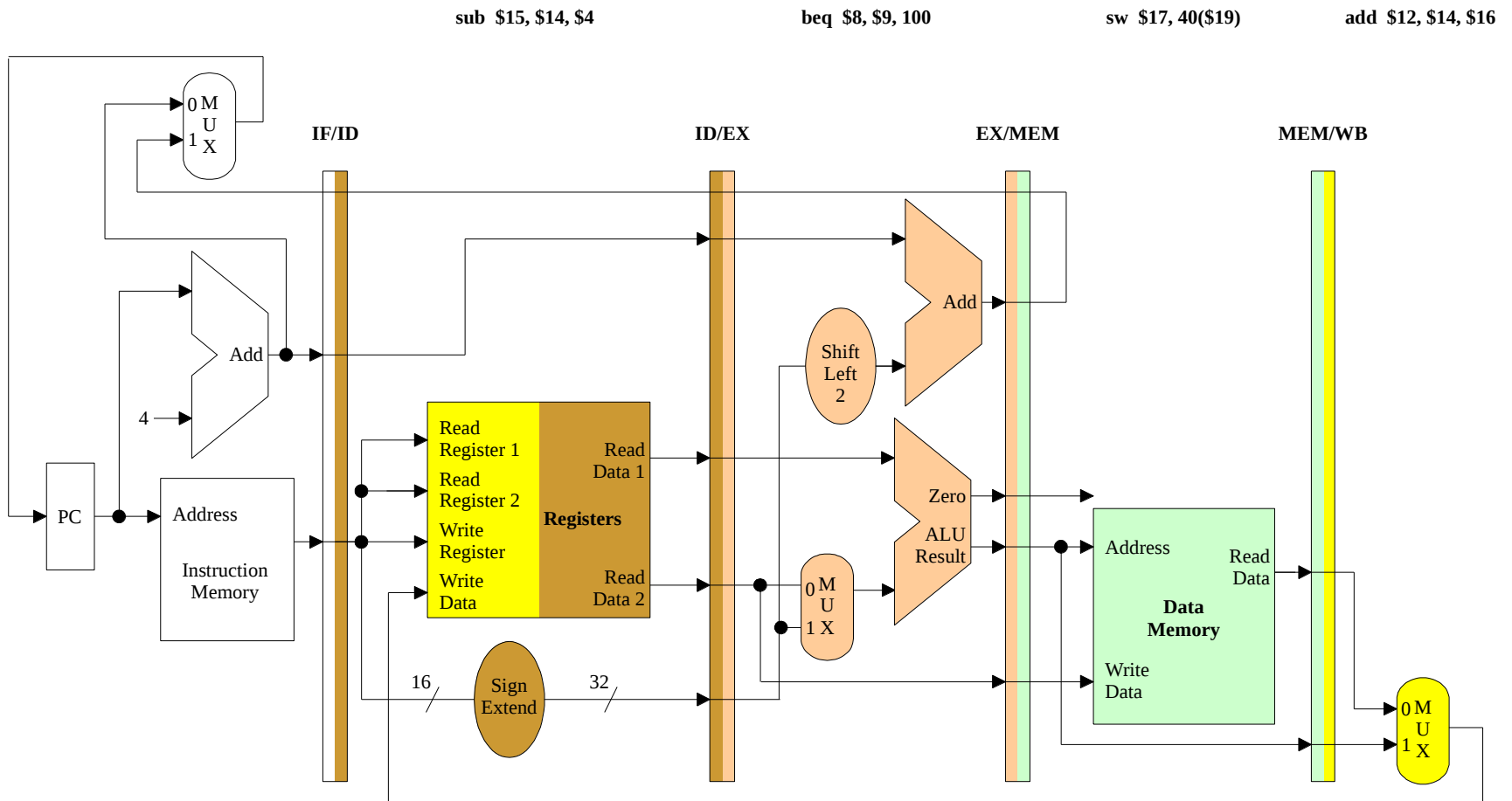
David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath



David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath



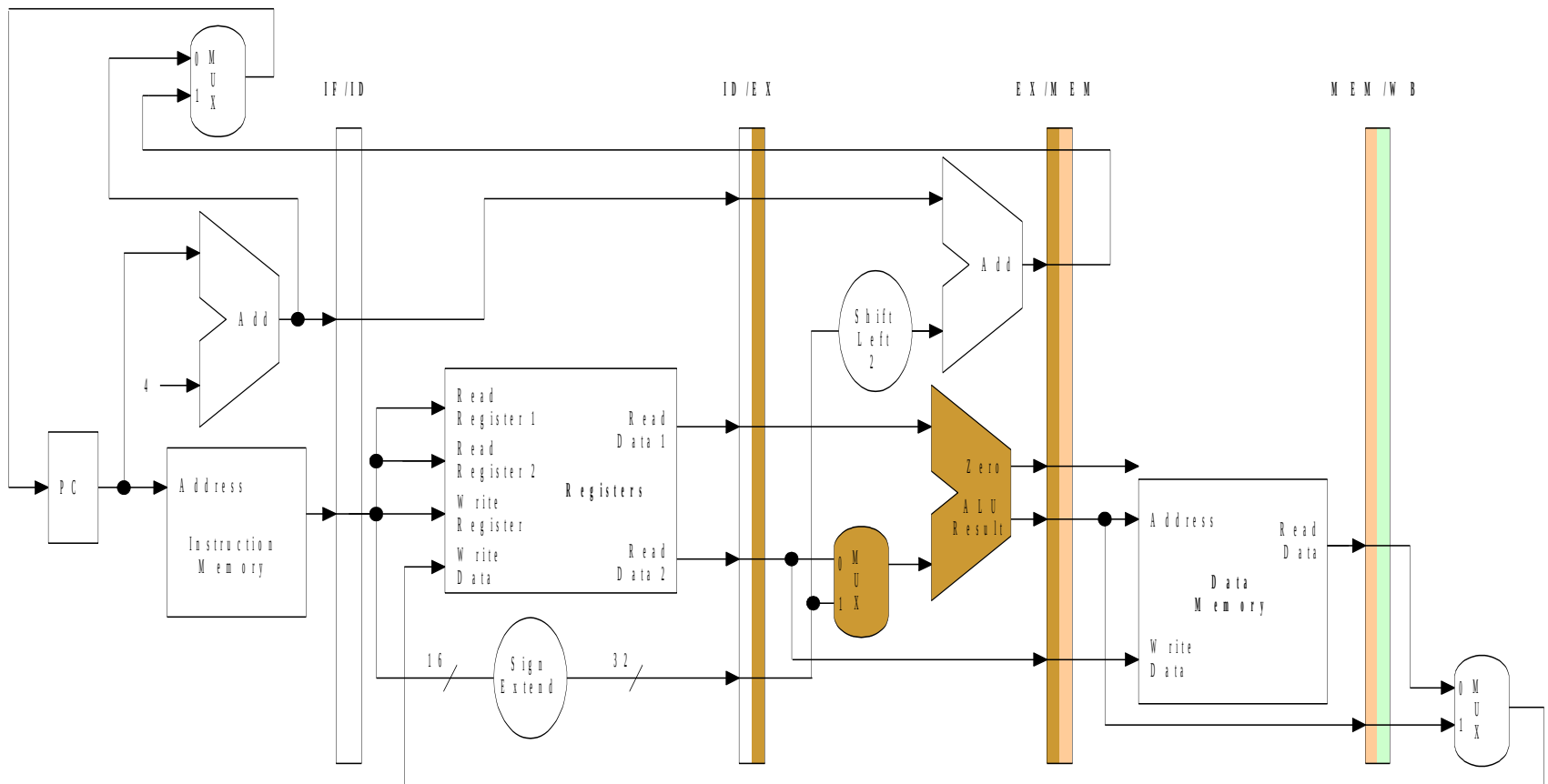
David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath

sub \$15, \$14, \$4

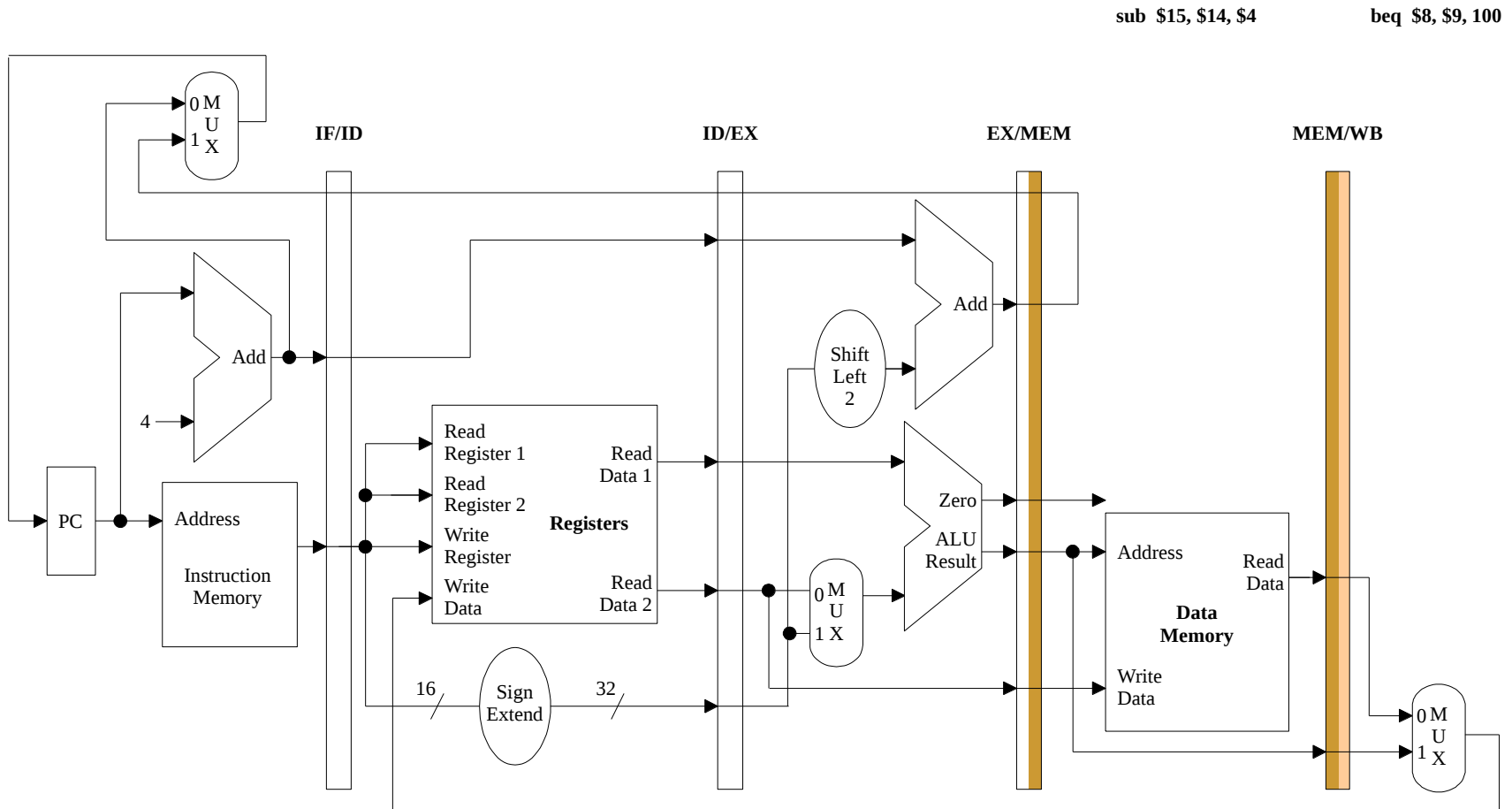
beq \$8, \$9, 100

sw \$17, 40(\$19)



David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

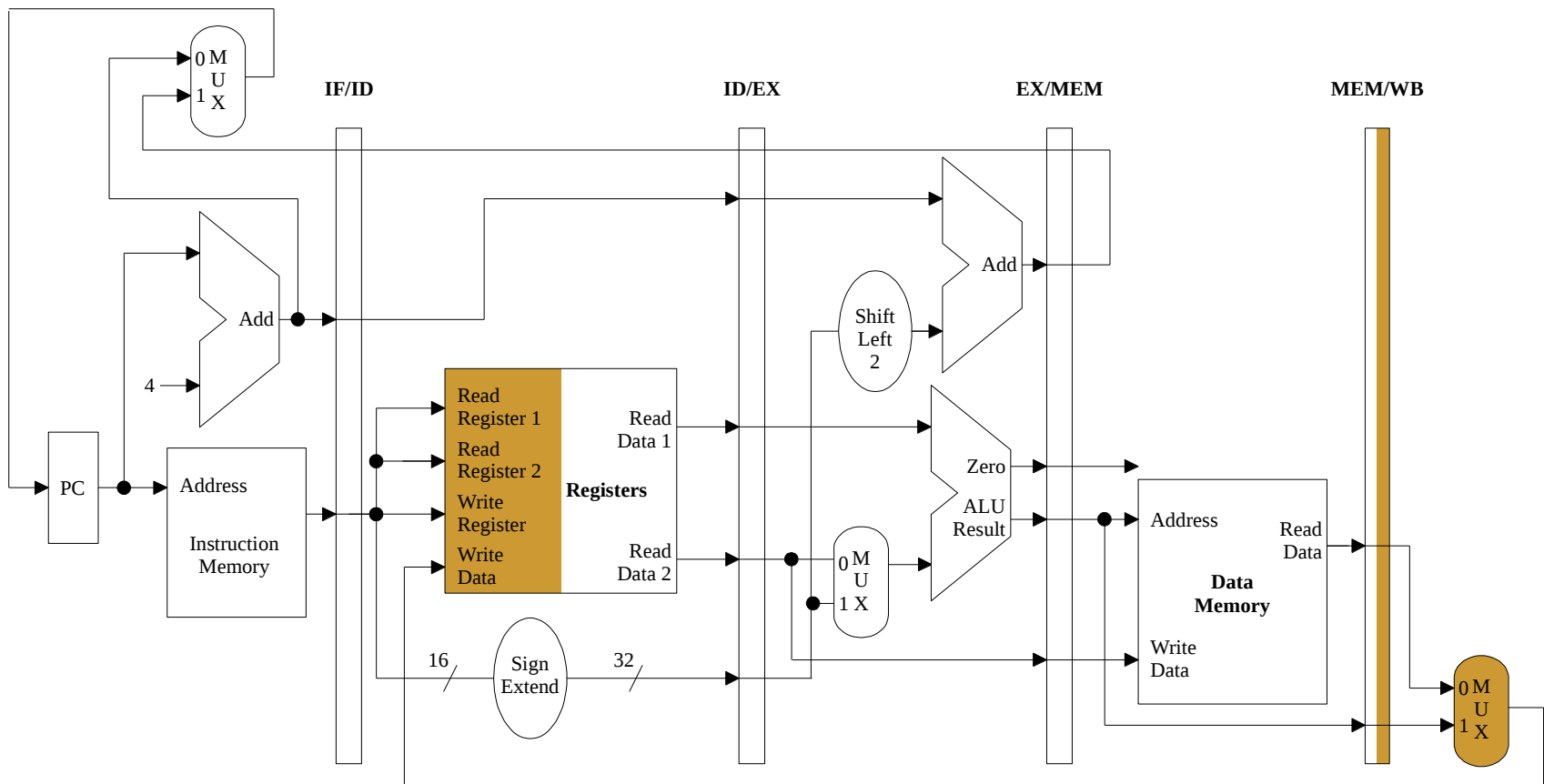
Pipelined Datapath



David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

Pipelined Datapath

sub \$15, \$14, \$4



David A. Patterson and John L. Hennessy, *Computer Organization and Design: The Hardware/Software Interface*, 4th edition, Elsevier, 2009, Figure 4.33, page 345

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- David A. Patterson and John L. Hennessy, *Computer Organization and Design, The Hardware/Software Interface*, 4th Edition, Elsevier, 2009