



Adapted from Hennessy JL, Patterson DA: Computer architecture: A quantitative approach, ed 6, Cambridge MA, 2018, Morgan Kaufmann.

FIGURE 4.76 Wasted work due to branch misprediction on the A53. Because the A53 is an in-order machine, the amount of wasted work depends on a variety of factors, including data dependences and cache misses, both of which will cause a stall.

(Adapted from Hennessy JL, Patterson DA: *Computer architecture: A quantitative approach*, ed 6, Cambridge MA, 2018, Morgan Kaufmann.)