Configuration: config/all-2way_8

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                 Simulation Results
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Memory System:
      D Cache: Size = 8192,   Associativity = 2,   Block size = 32
      I Cache: Size = 8192,   Associativity = 2,   Block size = 32
      L2 Unified Cache: Size = 32768,     Associativity = 2,   Block size = 64
      Main Memory: Ready time = 30,   Chunksize = 8,   Chunktime = 15,

Execution Time = 80925720875,    Total Traces Read = 10000000076
Flush time = 1107980765
Total time (Execution Time + Flush Time) = 82033701640

Number of Reference Types:  [Percentage]
      Reads   =   2011922989          [20.1%]
      Writes  =   1239405364          [12.4%]
      Inst.   =   6748671723          [67.5%]
      Total   =   10000000076

Total Cycles for Activities:     [Percentage]
      Reads   =   36787502973         [45.5%]
      Writes  =   8302537174          [10.3%]
      Inst.   =   35835680728         [44.3%]
      Total   =   80925720875

Average Cycles for Activities:
      Reads = 18.3,    Writes = 6.7,    Instructions = 12.0

Ideal: Execution Time = 16748671799;    CPI = 2.5
Ideal Misaligned Execution Time = 24145770580;  CPI = 3.6

Memory Level: L1 Instruction Cache
      Hit Count = 11116977283,     Miss Count = 342507790
      Total Requests = 11459485073
      Hit Rate: 97.0%,     Miss Rate = 3.0%
      Kickouts = 335834687,    Dirty-kickouts = 0,      Transfers = 342507790
      Flush Kickouts = 0

Memory Level: L1 Data Cache
      Hit Count = 5674788018,      Miss Count = 262825766
      Total Requests = 5937613784
      Hit Rate: 95.6%,     Miss Rate = 4.4%
      Kickouts = 151921331,    Dirty-kickouts = 104167539,      Transfers = 262825766
      Flush Kickouts = 2996178

Memory Level: L2 Cache
      Hit Count = 453099437,    Miss Count = 259397836
      Total Requests = 712497273
      Hit Rate: 63.6%,      Miss Rate = 36.4%
      Kickouts = 187953533,    Dirty-kickouts = 57977640,      Transfers = 259397836
      Flush Kickouts = 5124429


System Costs:
      L1 Cache Costs (Instruction Cache $400 + Data Cache $400) = $800
      L2 Cache Costs: $100
      Main Memory Costs: $75
      Total Memory Cost: $975

Flushes = 26315, Invalidates = 26875642

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