Configuration: config/default_8

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                Simulation Results
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Memory System:
     D Cache: Size = 8192,   Associativity = 1,   Block size = 32
     I Cache: Size = 8192,   Associativity = 1,   Block size = 32
     L2 Unified Cache: Size = 32768,     Associativity = 1,   Block size = 64
     Main Memory: Ready time = 30,  Chunksize = 8,  Chunktime = 15,

Execution Time = 104138715372,  Total Traces Read = 10000000076
Flush time = 1276064012
Total time (Execution Time + Flush Time) = 105414779384

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   =   48403064167         [46.5%]
     Writes  =   10809886183         [10.4%]
     Inst.   =   44925765022         [43.1%]
     Total   =   104138715372

Average Cycles for Activities:
     Reads = 24.1,   Writes = 8.7,   Instructions = 15.4

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

Memory Level: L1 Instruction Cache
     Hit Count = 10999734919,     Miss Count = 459750154
     Total Requests = 11459485073
     Hit Rate: 96.0%,     Miss Rate = 4.0%
     Kickouts = 453451137,    Dirty-kickouts = 0,     Transfers = 459750154
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 5567721529,      Miss Count = 369892255
     Total Requests = 5937613784
     Hit Rate: 93.8%,     Miss Rate = 6.2%
     Kickouts = 202390824,    Dirty-kickouts = 160764849,     Transfers = 369892255
     Flush Kickouts = 2892627

Memory Level: L2 Cache
     Hit Count = 642775176,   Miss Count = 350524709
     Total Requests = 993299885
     Hit Rate: 64.7%,     Miss Rate = 35.3%
     Kickouts = 256165107,    Dirty-kickouts = 81001599,     Transfers = 350524709
     Flush Kickouts = 5540605


System Costs:
     L1 Cache Costs (Instruction Cache $200 + Data Cache $200) = $400
     L2 Cache Costs: $50
     Main Memory Costs: $75
     Total Memory Cost: $525

Flushes = 26315, Invalidates = 26392604

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