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 = 51356175146,   Total Traces Read = 10000000073
Flush time = 538420190
Total time (Execution Time + Flush Time) = 51894595336

Number of Reference Types:  [Percentage]
     Reads   =   1882275327          [18.8%]
     Writes  =    552506959          [5.5%]
     Inst.   =   7565217787          [75.7%]
     Total   =  10000000073

Total Cycles for Activities:     [Percentage]
     Reads   =   20121654490         [39.2%]
     Writes  =   19055624136         [37.1%]
     Inst.   =   12178896520         [23.7%]
     Total   =   51356175146

Average Cycles for Activities:
     Reads = 10.7,   Writes = 34.5,  Instructions = 6.8

Ideal: Execution Time = 17565217860;    CPI = 2.3
Ideal Misaligned Execution Time = 22199500705;  CPI = 2.9

Memory Level: L1 Instruction Cache
     Hit Count = 12095352565,     Miss Count = 729957
     Total Requests = 12096082522
     Hit Rate: 100.0%,    Miss Rate = 0.0%
     Kickouts = 2648,     Dirty-kickouts = 0,     Transfers = 729957
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 2377919173,      Miss Count = 160281223
     Total Requests = 2538200396
     Hit Rate: 93.7%,     Miss Rate = 6.3%
     Kickouts = 91382864,     Dirty-kickouts = 62177835,      Transfers = 160281223
     Flush Kickouts = 1632869

Memory Level: L2 Cache
     Hit Count = 77412350,    Miss Count = 147409534
     Total Requests = 224821884
     Hit Rate: 34.4%,     Miss Rate = 65.6%
     Kickouts = 79921711,     Dirty-kickouts = 54649621,      Transfers = 147409534
     Flush Kickouts = 2468639


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 = 20285204

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