Configuration: config/all-4way_64

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                 Simulation Results
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Memory System:
     D Cache: Size = 8192,   Associativity = 4,   Block size = 32
     I Cache: Size = 8192,   Associativity = 4,   Block size = 32
     L2 Unified Cache: Size = 32768,    Associativity = 4,  Block size = 64
     Main Memory: Ready time = 30,  Chunksize = 64,     Chunktime = 15,

Execution Time = 28136754626,   Total Traces Read = 10000000109
Flush time = 283140208
Total time (Execution Time + Flush Time) = 28419894834

Number of Reference Types:  [Percentage]
     Reads   =   1907768017          [19.1%]
     Writes  =   727693598           [7.3%]
     Inst.   =   7364538494          [73.6%]
     Total   =   10000000109

Total Cycles for Activities:    [Percentage]
     Reads   =   5800367072          [20.6%]
     Writes  =   3428517713          [12.2%]
     Inst.   =   18907869841         [67.2%]
     Total   =   28136754626

Average Cycles for Activities:
     Reads = 3.0,    Writes = 4.7,   Instructions = 3.8

Ideal: Execution Time = 17364538603;    CPI = 2.4
Ideal Misaligned Execution Time = 23214492795;  CPI = 3.2

Memory Level: L1 Instruction Cache
     Hit Count = 12332139420,     Miss Count = 220236372
     Total Requests = 12552375792
     Hit Rate: 98.2%,     Miss Rate = 1.8%
     Kickouts = 213543772,    Dirty-kickouts = 0,     Transfers = 220236372
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 3199943661,      Miss Count = 97634848
     Total Requests = 3297578509
     Hit Rate: 97.0%,     Miss Rate = 3.0%
     Kickouts = 47750742,     Dirty-kickouts = 43156900,     Transfers = 97634848
     Flush Kickouts = 3306205

Memory Level: L2 Cache
     Hit Count = 274945451,   Miss Count = 89388874
     Total Requests = 364334325
     Hit Rate: 75.5%,     Miss Rate = 24.5%
     Kickouts = 56622716,     Dirty-kickouts = 19531139,     Transfers = 89388874
     Flush Kickouts = 3310541


System Costs:
     L1 Cache Costs (Instruction Cache $600 + Data Cache $600) = $1200
     L2 Cache Costs: $150
     Main Memory Costs: $275
     Total Memory Cost: $1625

Flushes = 26315, Invalidates = 26653811

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