Configuration: config/all-4way_8

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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 = 8,  Chunktime = 15,

Execution Time = 24609052333,   Total Traces Read = 10000000106
Flush time = 637828609
Total time (Execution Time + Flush Time) = 25246880942

Number of Reference Types:  [Percentage]
     Reads   =   2689845793        [26.9%]
     Writes  =   580065162         [5.8%]
     Inst.   =   6730089151        [67.3%]
     Total   =   10000000106

Total Cycles for Activities:    [Percentage]
     Reads   =   8265930608        [33.6%]
     Writes  =   2456275324        [10.0%]
     Inst.   =   13886846401       [56.4%]
     Total   =   24609052333

Average Cycles for Activities:
     Reads = 3.1,    Writes = 4.2,   Instructions = 3.7

Ideal: Execution Time = 16730089257;    CPI = 2.5
Ideal Misaligned Execution Time = 21962901365;  CPI = 3.3

Memory Level: L1 Instruction Cache
     Hit Count = 11158881443,     Miss Count = 49195445
     Total Requests = 11208076888
     Hit Rate: 99.6%,     Miss Rate = 0.4%
     Kickouts = 45049718,     Dirty-kickouts = 0,     Transfers = 49195445
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 3961063890,      Miss Count = 63671436
     Total Requests = 4024735326
     Hit Rate: 98.4%,     Miss Rate = 1.6%
     Kickouts = 41922031,     Dirty-kickouts = 15036144,      Transfers = 63671436
     Flush Kickouts = 2166638

Memory Level: L2 Cache
     Hit Count = 89742677,    Miss Count = 40326986
     Total Requests = 130069663
     Hit Rate: 69.0%,     Miss Rate = 31.0%
     Kickouts = 24099935,     Dirty-kickouts = 4617683,   Transfers = 40326986
     Flush Kickouts = 3040765


System Costs:
     L1 Cache Costs (Instruction Cache $600 + Data Cache $600) = $1200
     L2 Cache Costs: $150
     Main Memory Costs: $75
     Total Memory Cost: $1425

Flushes = 26315, Invalidates = 22467628

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