Configuration: config/l1-small_8

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                 Simulation Results
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Memory System:
     D Cache: Size = 4096,   Associativity = 1,   Block size = 32
     I Cache: Size = 4096,   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 = 105391966545,  Total Traces Read = 16506492546
Flush time = 1906842466
Total time (Execution Time + Flush Time) = 107298809011

Number of Reference Types:  [Percentage]
     Reads   =    3526260463        [21.4%]
     Writes  =     492653573        [3.0%]
     Inst.   =   12487578510        [75.7%]
     Total   =   16506492546

Total Cycles for Activities:    [Percentage]
     Reads   =   87279588970        [82.8%]
     Writes  =    1333042580        [1.3%]
     Inst.   =   16779334995        [15.9%]
     Total   =   105391966545

Average Cycles for Activities:
     Reads = 24.8,   Writes = 2.7,    Instructions = 8.4

Ideal: Execution Time = 28994071056;    CPI = 2.3
Ideal Misaligned Execution Time = 35948584560;  CPI = 2.9

Memory Level: L1 Instruction Cache
     Hit Count = 16620426703,     Miss Count = 962350
     Total Requests = 16621389053
     Hit Rate: 100.0%,    Miss Rate = 0.0%
     Kickouts = 64184,    Dirty-kickouts = 0,     Transfers = 962350
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 6246253316,      Miss Count = 593363681
     Total Requests = 6839616997
     Hit Rate: 91.3%,     Miss Rate = 8.7%
     Kickouts = 349647086,    Dirty-kickouts = 238156403,     Transfers = 593363681
     Flush Kickouts = 2307529

Memory Level: L2 Cache
     Hit Count = 540295248,   Miss Count = 294494715
     Total Requests = 834789963
     Hit Rate: 64.7%,     Miss Rate = 35.3%
     Kickouts = 147114586,    Dirty-kickouts = 125316930,     Transfers = 294494715
     Flush Kickouts = 10340037


System Costs:
     L1 Cache Costs (Instruction Cache $100 + Data Cache $100) = $200
     L2 Cache Costs: $50
     Main Memory Costs: $75
     Total Memory Cost: $325

Flushes = 43438, Invalidates = 28520798

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