

Configuration: config/all-fa-l2big\_64

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Simulation Results  
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Memory System:

D Cache: Size = 8192, Associativity = 256, Block size = 32  
I Cache: Size = 8192, Associativity = 256, Block size = 32  
L2 Unified Cache: Size = 65536, Associativity = 1024, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 64, Chunktime = 15,

Execution Time = 23728162437, Total Traces Read = 10000000109

Flush time = 416002510

Total time (Execution Time + Flush Time) = 24144164947

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 = 3748267707 [15.8%]  
Writes = 2833951444 [11.9%]  
Inst. = 17145943286 [72.3%]  
Total = 23728162437

Average Cycles for Activities:

Reads = 2.0, Writes = 3.9, Instructions = 3.2

Ideal: Execution Time = 17364538603; CPI = 2.4

Ideal Misaligned Execution Time = 23214492795; CPI = 3.2

Memory Level: L1 Instruction Cache

Hit Count = 12304076483, Miss Count = 248299309  
Total Requests = 12552375792  
Hit Rate: 98.0%, Miss Rate = 2.0%  
Kickouts = 241606304, Dirty-kickouts = 0, Transfers = 248299309  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3227625215, Miss Count = 69953294  
Total Requests = 3297578509  
Hit Rate: 97.9%, Miss Rate = 2.1%  
Kickouts = 27881150, Dirty-kickouts = 35335248, Transfers = 69953294  
Flush Kickouts = 3291874

Memory Level: L2 Cache

Hit Count = 326154416, Miss Count = 30725309  
Total Requests = 356879725  
Hit Rate: 91.4%, Miss Rate = 8.6%  
Kickouts = 106680, Dirty-kickouts = 6415355, Transfers = 30725309  
Flush Kickouts = 6636234

System Costs:

L1 Cache Costs (Instruction Cache \$1800 + Data Cache \$1800) = \$3600  
L2 Cache Costs: \$600  
Main Memory Costs: \$275  
Total Memory Cost: \$4475

Flushes = 26315, Invalidates = 37631735

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