

Configuration: config/default_8

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 1, Block size = 32
I Cache: Size = 8192, 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 = 52787960773, Total Traces Read = 10000000109
Flush time = 1019816592
Total time (Execution Time + Flush Time) = 53807777365

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 = 15659813386 [29.7%]
Writes = 7815038189 [14.8%]
Inst. = 29313109198 [55.5%]
Total = 52787960773

Average Cycles for Activities:

Reads = 8.2, Writes = 10.7, Instructions = 7.2

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

Memory Level: L1 Instruction Cache

Hit Count = 12314455056, Miss Count = 237920736
Total Requests = 12552375792
Hit Rate: 98.1%, Miss Rate = 1.9%
Kickouts = 231418878, Dirty-kickouts = 0, Transfers = 237920736
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3107721819, Miss Count = 189856690
Total Requests = 3297578509
Hit Rate: 94.2%, Miss Rate = 5.8%
Kickouts = 109219257, Dirty-kickouts = 74393184, Transfers = 189856690
Flush Kickouts = 2737832

Memory Level: L2 Cache

Hit Count = 357568698, Miss Count = 147339744
Total Requests = 504908442
Hit Rate: 70.8%, Miss Rate = 29.2%
Kickouts = 106105637, Dirty-kickouts = 29544751, Transfers = 147339744
Flush Kickouts = 4091163

System Costs:

L1 Cache Costs (Instruction Cache \$200 + Data Cache \$200) = \$400
L2 Cache Costs: \$50
Main Memory Costs: \$75
Total Memory Cost: \$525

Flushes = 26315, Invalidates = 24434543
