

Configuration: config/l1-2way_8

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 2, Block size = 32
I Cache: Size = 8192, Associativity = 2, Block size = 32
L2 Unified Cache: Size = 32768, Associativity = 1, Block size = 64
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 28469235119, Total Traces Read = 10000000106

Flush time = 715624096

Total time (Execution Time + Flush Time) = 29184859215

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 = 10501766473 [36.9%]
Writes = 3084911281 [10.8%]
Inst. = 14882557365 [52.3%]
Total = 28469235119

Average Cycles for Activities:

Reads = 3.9, Writes = 5.3, Instructions = 4.2

Ideal: Execution Time = 16730089257; CPI = 2.5

Ideal Misaligned Execution Time = 21962901365; CPI = 3.3

Memory Level: L1 Instruction Cache

Hit Count = 11159750424, Miss Count = 48326464
Total Requests = 11208076888
Hit Rate: 99.6%, Miss Rate = 0.4%
Kickouts = 44253661, Dirty-kickouts = 0, Transfers = 48326464
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3940055851, Miss Count = 84679475
Total Requests = 4024735326
Hit Rate: 97.9%, Miss Rate = 2.1%
Kickouts = 57836488, Dirty-kickouts = 20164436, Transfers = 84679475
Flush Kickouts = 2218584

Memory Level: L2 Cache

Hit Count = 97716188, Miss Count = 57672771
Total Requests = 155388959
Hit Rate: 62.9%, Miss Rate = 37.1%
Kickouts = 38638798, Dirty-kickouts = 8661722, Transfers = 57672771
Flush Kickouts = 3102497

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800
L2 Cache Costs: \$50
Main Memory Costs: \$75
Total Memory Cost: \$925

Flushes = 26315, Invalidates = 21122970
