

Configuration: config/all-fa_32

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 256, Block size = 32
I Cache: Size = 8192, Associativity = 256, Block size = 32
L2 Unified Cache: Size = 32768, Associativity = 512, Block size = 64
Main Memory: Ready time = 30, Chunksize = 32, Chunktime = 15,

Execution Time = 26813732327, Total Traces Read = 10000000109

Flush time = 228665575

Total time (Execution Time + Flush Time) = 27042397902

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 | = | 4989464878 | [18.6%] |
| Writes | = | 3342834490 | [12.5%] |
| Inst. | = | 18481432959 | [68.9%] |
| Total | = | 26813732327 | |

Average Cycles for Activities:

Reads = 2.6, Writes = 4.6, Instructions = 3.6

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 = 299626846, Miss Count = 57252879
Total Requests = 356879725
Hit Rate: 84.0%, Miss Rate = 16.0%
Kickouts = 30413302, Dirty-kickouts = 13367945, Transfers = 57252879
Flush Kickouts = 2532303

System Costs:

L1 Cache Costs (Instruction Cache \$1800 + Data Cache \$1800) = \$3600
L2 Cache Costs: \$500
Main Memory Costs: \$175
Total Memory Cost: \$4275

Flushes = 26315, Invalidates = 26900509
