

Configuration: config/l2-big_16

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 = 65536, Associativity = 1, Block size = 64
Main Memory: Ready time = 30, Chunksize = 16, Chunktime = 15,

Execution Time = 32371426103, Total Traces Read = 10000000109

Flush time = 765105742

Total time (Execution Time + Flush Time) = 33136531845

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 | = | 7396694994 | [22.8%] |
| Writes | = | 4538985006 | [14.0%] |
| Inst. | = | 20435746103 | [63.1%] |
| Total | = | 32371426103 | |

Average Cycles for Activities:

Reads = 3.9, Writes = 6.2, Instructions = 4.4

Ideal: Execution Time = 17364538603; CPI = 2.4

Ideal Misaligned Execution Time = 23214492795; CPI = 3.2

Memory Level: L1 Instruction Cache

Hit Count = 12328417929, Miss Count = 223957863
Total Requests = 12552375792
Hit Rate: 98.2%, Miss Rate = 1.8%
Kickouts = 217282337, Dirty-kickouts = 0, Transfers = 223957863
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3175293706, Miss Count = 122284803
Total Requests = 3297578509
Hit Rate: 96.3%, Miss Rate = 3.7%
Kickouts = 62676901, Dirty-kickouts = 52965730, Transfers = 122284803
Flush Kickouts = 3039609

Memory Level: L2 Cache

Hit Count = 320512476, Miss Count = 81735529
Total Requests = 402248005
Hit Rate: 79.7%, Miss Rate = 20.3%
Kickouts = 47945506, Dirty-kickouts = 16238015, Transfers = 81735529
Flush Kickouts = 5658809

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800
L2 Cache Costs: \$100
Main Memory Costs: \$75
Total Memory Cost: \$975

Flushes = 26315, Invalidates = 30868569
