

Configuration: config/default_16

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 = 16, Chunktime = 15,

Execution Time = 42303006013, Total Traces Read = 10000000109

Flush time = 657881052

Total time (Execution Time + Flush Time) = 42960887065

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	=	11851058806	[28.0%]
Writes	=	5813235809	[13.7%]
Inst.	=	24638711398	[58.2%]
Total	=	42303006013	

Average Cycles for Activities:

Reads = 6.2, Writes = 8.0, Instructions = 5.7

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
