

Configuration: config/all-4way_32

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 4, Block size = 32
I Cache: Size = 8192, Associativity = 4, Block size = 32
L2 Unified Cache: Size = 32768, Associativity = 4, Block size = 64
Main Memory: Ready time = 30, Chunksize = 32, Chunktime = 15,

Execution Time = 29755008086, Total Traces Read = 10000000109

Flush time = 345250108

Total time (Execution Time + Flush Time) = 30100258194

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	=	6348227252	[21.3%]
Writes	=	3802504328	[12.8%]
Inst.	=	19604276506	[65.9%]
Total	=	29755008086	

Average Cycles for Activities:

Reads = 3.3, Writes = 5.2, Instructions = 4.0

Ideal: Execution Time = 17364538603; CPI = 2.4

Ideal Misaligned Execution Time = 23214492795; CPI = 3.2

Memory Level: L1 Instruction Cache

Hit Count = 12332139420, Miss Count = 220236372
Total Requests = 12552375792
Hit Rate: 98.2%, Miss Rate = 1.8%
Kickouts = 213543772, Dirty-kickouts = 0, Transfers = 220236372
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3199943661, Miss Count = 97634848
Total Requests = 3297578509
Hit Rate: 97.0%, Miss Rate = 3.0%
Kickouts = 47750742, Dirty-kickouts = 43156900, Transfers = 97634848
Flush Kickouts = 3306205

Memory Level: L2 Cache

Hit Count = 274945451, Miss Count = 89388874
Total Requests = 364334325
Hit Rate: 75.5%, Miss Rate = 24.5%
Kickouts = 56622716, Dirty-kickouts = 19531139, Transfers = 89388874
Flush Kickouts = 3310541

System Costs:

L1 Cache Costs (Instruction Cache \$600 + Data Cache \$600) = \$1200
L2 Cache Costs: \$150
Main Memory Costs: \$175
Total Memory Cost: \$1525

Flushes = 26315, Invalidates = 26653811
