

Configuration: config/l2-4way_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 = 4, Block size = 64
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 74084687669, Total Traces Read = 10000000076

Flush time = 1095561885

Total time (Execution Time + Flush Time) = 75180249554

Number of Reference Types: [Percentage]

Reads	=	2011922989	[20.1%]
Writes	=	1239405364	[12.4%]
Inst.	=	6748671723	[67.5%]
Total	=	10000000076	

Total Cycles for Activities: [Percentage]

Reads	=	33613188511	[45.4%]
Writes	=	7888244295	[10.6%]
Inst.	=	32583254863	[44.0%]
Total	=	74084687669	

Average Cycles for Activities:

Reads = 16.7, Writes = 6.4, Instructions = 11.0

Ideal: Execution Time = 16748671799; CPI = 2.5

Ideal Misaligned Execution Time = 24145770580; CPI = 3.6

Memory Level: L1 Instruction Cache

Hit Count = 11116977283, Miss Count = 342507790
Total Requests = 11459485073
Hit Rate: 97.0%, Miss Rate = 3.0%
Kickouts = 335834687, Dirty-kickouts = 0, Transfers = 342507790
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 5674788018, Miss Count = 262825766
Total Requests = 5937613784
Hit Rate: 95.6%, Miss Rate = 4.4%
Kickouts = 151921331, Dirty-kickouts = 104167539, Transfers = 262825766
Flush Kickouts = 2996178

Memory Level: L2 Cache

Hit Count = 488164295, Miss Count = 224332978
Total Requests = 712497273
Hit Rate: 68.5%, Miss Rate = 31.5%
Kickouts = 159065563, Dirty-kickouts = 51793755, Transfers = 224332978
Flush Kickouts = 5046811

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800
L2 Cache Costs: \$150
Main Memory Costs: \$75
Total Memory Cost: \$1025

Flushes = 26315, Invalidates = 26882639
