

Configuration: config/l1-2way_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 = 1, Block size = 64
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 88323099590, Total Traces Read = 10000000076

Flush time = 1097681885

Total time (Execution Time + Flush Time) = 89420781475

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	=	40408856805	[45.8%]
Writes	=	9010842801	[10.2%]
Inst.	=	38903399984	[44.0%]
Total	=	88323099590	

Average Cycles for Activities:

Reads = 20.1, Writes = 7.3, Instructions = 13.1

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 = 414372672, Miss Count = 298124601
Total Requests = 712497273
Hit Rate: 58.2%, Miss Rate = 41.8%
Kickouts = 221021809, Dirty-kickouts = 63739199, Transfers = 298124601
Flush Kickouts = 5060061

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800
L2 Cache Costs: \$50
Main Memory Costs: \$75
Total Memory Cost: \$925

Flushes = 26315, Invalidates = 26772580
