

Configuration: config/l1-8way_8

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 8, Block size = 32
I Cache: Size = 8192, Associativity = 8, Block size = 32
L2 Unified Cache: Size = 32768, Associativity = 1, Block size = 64
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 26133078227, Total Traces Read = 10000000106
Flush time = 487969183
Total time (Execution Time + Flush Time) = 26621047410

Number of Reference Types: [Percentage]

Reads	=	2689845793	[26.9%]
Writes	=	580065162	[5.8%]
Inst.	=	6730089151	[67.3%]
Total	=	10000000106	

Total Cycles for Activities: [Percentage]

Reads	=	8836011351	[33.8%]
Writes	=	2493466206	[9.5%]
Inst.	=	14803600670	[56.6%]
Total	=	26133078227	

Average Cycles for Activities:

Reads = 3.3, Writes = 4.3, Instructions = 3.9

Ideal: Execution Time = 16730089257; CPI = 2.5
Ideal Misaligned Execution Time = 21962901365; CPI = 3.3

Memory Level: L1 Instruction Cache

Hit Count = 11155785363, Miss Count = 52291525
Total Requests = 11208076888
Hit Rate: 99.5%, Miss Rate = 0.5%
Kickouts = 48110178, Dirty-kickouts = 0, Transfers = 52291525
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3966147982, Miss Count = 58587344
Total Requests = 4024735326
Hit Rate: 98.5%, Miss Rate = 1.5%
Kickouts = 38420138, Dirty-kickouts = 13441830, Transfers = 58587344
Flush Kickouts = 2132646

Memory Level: L2 Cache

Hit Count = 77956889, Miss Count = 48496456
Total Requests = 126453345
Hit Rate: 61.6%, Miss Rate = 38.4%
Kickouts = 32726172, Dirty-kickouts = 5632635, Transfers = 48496456
Flush Kickouts = 2433020

System Costs:

L1 Cache Costs (Instruction Cache \$800 + Data Cache \$800) = \$1600
L2 Cache Costs: \$50
Main Memory Costs: \$75
Total Memory Cost: \$1725

Flushes = 26315, Invalidates = 21043737
