

Configuration: config/all-fa-l2big_8

Simulation Results

Memory System:

D Cache: Size = 8192, Associativity = 256, Block size = 32
I Cache: Size = 8192, Associativity = 256, Block size = 32
L2 Unified Cache: Size = 65536, Associativity = 1024, Block size = 64
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 22242431349, Total Traces Read = 10000000106

Flush time = 629546905

Total time (Execution Time + Flush Time) = 22871978254

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	=	7130477090	[32.1%]
Writes	=	2122509365	[9.5%]
Inst.	=	12989444894	[58.4%]
Total	=	22242431349	

Average Cycles for Activities:

Reads = 2.7, Writes = 3.7, Instructions = 3.3

Ideal: Execution Time = 16730089257; CPI = 2.5

Ideal Misaligned Execution Time = 21962901365; CPI = 3.3

Memory Level: L1 Instruction Cache

Hit Count = 11150956096, Miss Count = 57120792
Total Requests = 11208076888
Hit Rate: 99.5%, Miss Rate = 0.5%
Kickouts = 52921449, Dirty-kickouts = 0, Transfers = 57120792
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3968017721, Miss Count = 56717605
Total Requests = 4024735326
Hit Rate: 98.6%, Miss Rate = 1.4%
Kickouts = 37131782, Dirty-kickouts = 12849162, Transfers = 56717605
Flush Kickouts = 2167169

Memory Level: L2 Cache

Hit Count = 100663299, Miss Count = 28191429
Total Requests = 128854728
Hit Rate: 78.1%, Miss Rate = 21.9%
Kickouts = 7505889, Dirty-kickouts = 1825894, Transfers = 28191429
Flush Kickouts = 3704035

System Costs:

L1 Cache Costs (Instruction Cache \$1800 + Data Cache \$1800) = \$3600
L2 Cache Costs: \$1100
Main Memory Costs: \$75
Total Memory Cost: \$4775

Flushes = 26315, Invalidates = 29794901
