

Configuration: config/all-fa\_8

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Simulation Results  
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Memory System:

D Cache: Size = 8192, Associativity = 256, Block size = 32  
I Cache: Size = 8192, Associativity = 256, Block size = 32  
L2 Unified Cache: Size = 32768, Associativity = 512, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 23468903880, Total Traces Read = 10000000106

Flush time = 406417465

Total time (Execution Time + Flush Time) = 23875321345

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	=	7837477633	[33.4%]
Writes	=	2296457168	[9.8%]
Inst.	=	13334969079	[56.8%]
Total	=	23468903880	

Average Cycles for Activities:

Reads = 2.9, Writes = 4.0, Instructions = 3.5

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 = 95105646, Miss Count = 33749082  
Total Requests = 128854728  
Hit Rate: 73.8%, Miss Rate = 26.2%  
Kickouts = 18517076, Dirty-kickouts = 3691338, Transfers = 33749082  
Flush Kickouts = 2309476

System Costs:

L1 Cache Costs (Instruction Cache \$1800 + Data Cache \$1800) = \$3600  
L2 Cache Costs: \$500  
Main Memory Costs: \$75  
Total Memory Cost: \$4175

Flushes = 26315, Invalidates = 22475923

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