

Configuration: config/all-4way\_8

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Simulation Results  
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Memory System:

D Cache: Size = 8192, Associativity = 4, Block size = 32  
I Cache: Size = 8192, Associativity = 4, Block size = 32  
L2 Unified Cache: Size = 32768, Associativity = 4, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 51047494805, Total Traces Read = 10000000073

Flush time = 459056411

Total time (Execution Time + Flush Time) = 51506551216

Number of Reference Types: [Percentage]

Reads	=	1882275327	[18.8%]
Writes	=	552506959	[5.5%]
Inst.	=	7565217787	[75.7%]
Total	=	10000000073	

Total Cycles for Activities: [Percentage]

Reads	=	19733780407	[38.7%]
Writes	=	19135438023	[37.5%]
Inst.	=	12178276375	[23.9%]
Total	=	51047494805	

Average Cycles for Activities:

Reads = 10.5, Writes = 34.6, Instructions = 6.7

Ideal: Execution Time = 17565217860; CPI = 2.3

Ideal Misaligned Execution Time = 22199500705; CPI = 2.9

Memory Level: L1 Instruction Cache

Hit Count = 12095352741, Miss Count = 729781  
Total Requests = 12096082522  
Hit Rate: 100.0%, Miss Rate = 0.0%  
Kickouts = 1796, Dirty-kickouts = 0, Transfers = 729781  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 2379831924, Miss Count = 158368472  
Total Requests = 2538200396  
Hit Rate: 93.8%, Miss Rate = 6.2%  
Kickouts = 90335853, Dirty-kickouts = 61299967, Transfers = 158368472  
Flush Kickouts = 1629537

Memory Level: L2 Cache

Hit Count = 75741367, Miss Count = 146286390  
Total Requests = 222027757  
Hit Rate: 34.1%, Miss Rate = 65.9%  
Kickouts = 79538068, Dirty-kickouts = 53841597, Transfers = 146286390  
Flush Kickouts = 2206328

System Costs:

L1 Cache Costs (Instruction Cache \$600 + Data Cache \$600) = \$1200  
L2 Cache Costs: \$150  
Main Memory Costs: \$75  
Total Memory Cost: \$1425

Flushes = 26315, Invalidates = 20366531

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