

Configuration: config/all-2way\_8

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Simulation Results  
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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 = 2, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 26386561100, Total Traces Read = 10000000106

Flush time = 764306816

Total time (Execution Time + Flush Time) = 27150867916

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	=	9381760714	[35.6%]
Writes	=	2626095074	[10.0%]
Inst.	=	14378705312	[54.5%]
Total	=	26386561100	

Average Cycles for Activities:

Reads = 3.5, Writes = 4.5, 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 = 11159750424, Miss Count = 48326464  
Total Requests = 11208076888  
Hit Rate: 99.6%, Miss Rate = 0.4%  
Kickouts = 44253661, Dirty-kickouts = 0, Transfers = 48326464  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3940055851, Miss Count = 84679475  
Total Requests = 4024735326  
Hit Rate: 97.9%, Miss Rate = 2.1%  
Kickouts = 57836488, Dirty-kickouts = 20164436, Transfers = 84679475  
Flush Kickouts = 2218584

Memory Level: L2 Cache

Hit Count = 107757185, Miss Count = 47631774  
Total Requests = 155388959  
Hit Rate: 69.3%, Miss Rate = 30.7%  
Kickouts = 30199412, Dirty-kickouts = 6139316, Transfers = 47631774  
Flush Kickouts = 3406764

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800  
L2 Cache Costs: \$100  
Main Memory Costs: \$75  
Total Memory Cost: \$975

Flushes = 26315, Invalidates = 22043684

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