

Configuration: config/l2-4way\_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 = 4, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 50225104817, Total Traces Read = 10000000073

Flush time = 536891390

Total time (Execution Time + Flush Time) = 50761996207

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	=	19731740364	[39.3%]
Writes	=	18315047347	[36.5%]
Inst.	=	12178317106	[24.2%]
Total	=	50225104817	

Average Cycles for Activities:

Reads = 10.5, Writes = 33.1, Instructions = 6.6

Ideal: Execution Time = 17565217860; CPI = 2.3

Ideal Misaligned Execution Time = 22199500705; CPI = 2.9

Memory Level: L1 Instruction Cache

Hit Count = 12095352565, Miss Count = 729957  
Total Requests = 12096082522  
Hit Rate: 100.0%, Miss Rate = 0.0%  
Kickouts = 2648, Dirty-kickouts = 0, Transfers = 729957  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 2377919173, Miss Count = 160281223  
Total Requests = 2538200396  
Hit Rate: 93.7%, Miss Rate = 6.3%  
Kickouts = 91382864, Dirty-kickouts = 62177835, Transfers = 160281223  
Flush Kickouts = 1632869

Memory Level: L2 Cache

Hit Count = 83631037, Miss Count = 141190847  
Total Requests = 224821884  
Hit Rate: 37.2%, Miss Rate = 62.8%  
Kickouts = 74165186, Dirty-kickouts = 54059047, Transfers = 141190847  
Flush Kickouts = 2459084

System Costs:

L1 Cache Costs (Instruction Cache \$400 + Data Cache \$400) = \$800  
L2 Cache Costs: \$150  
Main Memory Costs: \$75  
Total Memory Cost: \$1025

Flushes = 26315, Invalidates = 20413616

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