

Configuration: config/l1-8way\_8

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Simulation Results  
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Memory System:

D Cache: Size = 8192, Associativity = 8, Block size = 32  
I Cache: Size = 8192, Associativity = 8, Block size = 32  
L2 Unified Cache: Size = 32768, Associativity = 1, Block size = 64  
Main Memory: Ready time = 30, Chunksize = 8, Chunktime = 15,

Execution Time = 43206922491, Total Traces Read = 10000000109

Flush time = 538227778

Total time (Execution Time + Flush Time) = 43745150269

Number of Reference Types: [Percentage]

Reads	=	1907768017	[19.1%]
Writes	=	727693598	[7.3%]
Inst.	=	7364538494	[73.6%]
Total	=	10000000109	

Total Cycles for Activities: [Percentage]

Reads	=	10095845068	[23.4%]
Writes	=	6350077361	[14.7%]
Inst.	=	26761000062	[61.9%]
Total	=	43206922491	

Average Cycles for Activities:

Reads = 5.3, Writes = 8.7, Instructions = 5.9

Ideal: Execution Time = 17364538603; CPI = 2.4

Ideal Misaligned Execution Time = 23214492795; CPI = 3.2

Memory Level: L1 Instruction Cache

Hit Count = 12325046810, Miss Count = 227328982  
Total Requests = 12552375792  
Hit Rate: 98.2%, Miss Rate = 1.8%  
Kickouts = 220636066, Dirty-kickouts = 0, Transfers = 227328982  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3214036349, Miss Count = 83542160  
Total Requests = 3297578509  
Hit Rate: 97.5%, Miss Rate = 2.5%  
Kickouts = 39073920, Dirty-kickouts = 37731873, Transfers = 83542160  
Flush Kickouts = 3374743

Memory Level: L2 Cache

Hit Count = 240078550, Miss Count = 111899208  
Total Requests = 351977758  
Hit Rate: 68.2%, Miss Rate = 31.8%  
Kickouts = 80178992, Dirty-kickouts = 20058088, Transfers = 111899208  
Flush Kickouts = 2608082

System Costs:

L1 Cache Costs (Instruction Cache \$800 + Data Cache \$800) = \$1600  
L2 Cache Costs: \$50  
Main Memory Costs: \$75  
Total Memory Cost: \$1725

Flushes = 26315, Invalidates = 25090467

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