

Configuration: config/all-fa\_16

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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 = 16, Chunktime = 15,

Execution Time = 28931355917, Total Traces Read = 10000000109

Flush time = 305424115

Total time (Execution Time + Flush Time) = 29236780032

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	=	5739883678	[19.8%]
Writes	=	3940524760	[13.6%]
Inst.	=	19250947479	[66.5%]
Total	=	28931355917	

Average Cycles for Activities:

Reads = 3.0, Writes = 5.4, Instructions = 3.9

Ideal: Execution Time = 17364538603; CPI = 2.4

Ideal Misaligned Execution Time = 23214492795; CPI = 3.2

Memory Level: L1 Instruction Cache

Hit Count = 12304076483, Miss Count = 248299309  
Total Requests = 12552375792  
Hit Rate: 98.0%, Miss Rate = 2.0%  
Kickouts = 241606304, Dirty-kickouts = 0, Transfers = 248299309  
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 3227625215, Miss Count = 69953294  
Total Requests = 3297578509  
Hit Rate: 97.9%, Miss Rate = 2.1%  
Kickouts = 27881150, Dirty-kickouts = 35335248, Transfers = 69953294  
Flush Kickouts = 3291874

Memory Level: L2 Cache

Hit Count = 299626846, Miss Count = 57252879  
Total Requests = 356879725  
Hit Rate: 84.0%, Miss Rate = 16.0%  
Kickouts = 30413302, Dirty-kickouts = 13367945, Transfers = 57252879  
Flush Kickouts = 2532303

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 = 26900509

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