

Configuration: config/all-fa_8

Simulation Results

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 = 8, Chunktime = 15,

Execution Time = 33166603097, Total Traces Read = 10000000109

Flush time = 458941195

Total time (Execution Time + Flush Time) = 33625544292

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	=	7240721278	[21.8%]
Writes	=	5135905300	[15.5%]
Inst.	=	20789976519	[62.7%]
Total	=	33166603097	

Average Cycles for Activities:

Reads = 3.8, Writes = 7.1, Instructions = 4.5

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
