

Configuration: config/default_8

Simulation Results

Memory System:

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

Execution Time = 105293248466, Total Traces Read = 16506492546

Flush time = 2161770105

Total time (Execution Time + Flush Time) = 107455018571

Number of Reference Types: [Percentage]

Reads	=	3526260463	[21.4%]
Writes	=	492653573	[3.0%]
Inst.	=	12487578510	[75.7%]
Total	=	16506492546	

Total Cycles for Activities: [Percentage]

Reads	=	87188621969	[82.8%]
Writes	=	1339783837	[1.3%]
Inst.	=	16764842660	[15.9%]
Total	=	105293248466	

Average Cycles for Activities:

Reads = 24.7, Writes = 2.7, Instructions = 8.4

Ideal: Execution Time = 28994071056; CPI = 2.3

Ideal Misaligned Execution Time = 35948584560; CPI = 2.9

Memory Level: L1 Instruction Cache

Hit Count = 16620433406, Miss Count = 955647
Total Requests = 16621389053
Hit Rate: 100.0%, Miss Rate = 0.0%
Kickouts = 7720, Dirty-kickouts = 0, Transfers = 955647
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 6253459687, Miss Count = 586157310
Total Requests = 6839616997
Hit Rate: 91.4%, Miss Rate = 8.6%
Kickouts = 340203872, Dirty-kickouts = 234833054, Transfers = 586157310
Flush Kickouts = 4643116

Memory Level: L2 Cache

Hit Count = 530481730, Miss Count = 296107397
Total Requests = 826589127
Hit Rate: 64.2%, Miss Rate = 35.8%
Kickouts = 147899401, Dirty-kickouts = 126131988, Transfers = 296107397
Flush Kickouts = 10350712

System Costs:

L1 Cache Costs (Instruction Cache \$200 + Data Cache \$200) = \$400
L2 Cache Costs: \$50
Main Memory Costs: \$75
Total Memory Cost: \$525

Flushes = 43438, Invalidates = 34143333
