

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 = 52753050839, Total Traces Read = 10000000073
Flush time = 602367385
Total time (Execution Time + Flush Time) = 53355418224

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	=	21886254229	[41.5%]
Writes	=	18672589068	[35.4%]
Inst.	=	12194207542	[23.1%]
Total	=	52753050839	

Average Cycles for Activities:

Reads = 11.6, Writes = 33.8, Instructions = 7.0

Ideal: Execution Time = 17565217860; CPI = 2.3
Ideal Misaligned Execution Time = 22199500705; CPI = 2.9

Memory Level: L1 Instruction Cache

Hit Count = 12094581696, Miss Count = 1500826
Total Requests = 12096082522
Hit Rate: 100.0%, Miss Rate = 0.0%
Kickouts = 782137, Dirty-kickouts = 0, Transfers = 1500826
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 2359895135, Miss Count = 178305261
Total Requests = 2538200396
Hit Rate: 93.0%, Miss Rate = 7.0%
Kickouts = 102760923, Dirty-kickouts = 68885054, Transfers = 178305261
Flush Kickouts = 1582865

Memory Level: L2 Cache

Hit Count = 99342999, Miss Count = 150931007
Total Requests = 250274006
Hit Rate: 39.7%, Miss Rate = 60.3%
Kickouts = 80793120, Dirty-kickouts = 57599764, Transfers = 150931007
Flush Kickouts = 2615081

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 = 26315, Invalidates = 19915269
