

Configuration: config/l1-8way_8

Simulation Results

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 = 53517294718, Total Traces Read = 10000000073

Flush time = 398024901

Total time (Execution Time + Flush Time) = 53915319619

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	=	20476469192	[38.3%]
Writes	=	20860692074	[39.0%]
Inst.	=	12180133452	[22.8%]
Total	=	53517294718	

Average Cycles for Activities:

Reads = 10.9, Writes = 37.8, Instructions = 7.1

Ideal: Execution Time = 17565217860; CPI = 2.3

Ideal Misaligned Execution Time = 22199500705; CPI = 2.9

Memory Level: L1 Instruction Cache

Hit Count = 12095352795, Miss Count = 729727
Total Requests = 12096082522
Hit Rate: 100.0%, Miss Rate = 0.0%
Kickouts = 1695, Dirty-kickouts = 0, Transfers = 729727
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 2380324984, Miss Count = 157875412
Total Requests = 2538200396
Hit Rate: 93.8%, Miss Rate = 6.2%
Kickouts = 90023670, Dirty-kickouts = 61115542, Transfers = 157875412
Flush Kickouts = 1614730

Memory Level: L2 Cache

Hit Count = 61207560, Miss Count = 160127851
Total Requests = 221335411
Hit Rate: 27.7%, Miss Rate = 72.3%
Kickouts = 92981558, Dirty-kickouts = 54681582, Transfers = 160127851
Flush Kickouts = 2019817

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 = 19928112
