

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 = 59531507388, Total Traces Read = 10000000076

Flush time = 600299755

Total time (Execution Time + Flush Time) = 60131807143

Number of Reference Types: [Percentage]

Reads	=	2011922989	[20.1%]
Writes	=	1239405364	[12.4%]
Inst.	=	6748671723	[67.5%]
Total	=	10000000076	

Total Cycles for Activities: [Percentage]

Reads	=	27398720115	[46.0%]
Writes	=	6956428679	[11.7%]
Inst.	=	25176358594	[42.3%]
Total	=	59531507388	

Average Cycles for Activities:

Reads = 13.6, Writes = 5.6, Instructions = 8.8

Ideal: Execution Time = 16748671799; CPI = 2.5

Ideal Misaligned Execution Time = 24145770580; CPI = 3.6

Memory Level: L1 Instruction Cache

Hit Count = 11254284734, Miss Count = 205200339
Total Requests = 11459485073
Hit Rate: 98.2%, Miss Rate = 1.8%
Kickouts = 198463629, Dirty-kickouts = 0, Transfers = 205200339
Flush Kickouts = 0

Memory Level: L1 Data Cache

Hit Count = 5758087000, Miss Count = 179526784
Total Requests = 5937613784
Hit Rate: 97.0%, Miss Rate = 3.0%
Kickouts = 102020955, Dirty-kickouts = 70768933, Transfers = 179526784
Flush Kickouts = 3091106

Memory Level: L2 Cache

Hit Count = 289056583, Miss Count = 169530579
Total Requests = 458587162
Hit Rate: 63.0%, Miss Rate = 37.0%
Kickouts = 114736562, Dirty-kickouts = 41320225, Transfers = 169530579
Flush Kickouts = 3434616

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 = 26946374
