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 = 104212820561, Total Traces Read = 16506492546
Flush time = 1379388532
Total time (Execution Time + Flush Time) = 105592209093

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   =   86238407263   [82.8%]
     Writes =   1193593885   [1.1%]
     Inst.   =   16780819413   [16.1%]
     Total   =   104212820561

Average Cycles for Activities:
     Reads = 24.5,   Writes = 2.4,   Instructions = 8.3

Ideal: Execution Time = 28994071056;   CPI = 2.3
Ideal Misaligned Execution Time = 35948584560; CPI = 2.9

Memory Level: L1 Instruction Cache
     Hit Count = 16620435112,   Miss Count = 953941
     Total Requests = 16621389053
     Hit Rate: 100.0%,   Miss Rate = 0.0%
     Kickouts = 2003,   Dirty-kickouts = 0,   Transfers = 953941
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 6262690810,   Miss Count = 576926187
     Total Requests = 6839616997
     Hit Rate: 91.6%,   Miss Rate = 8.4%
     Kickouts = 332698276,   Dirty-kickouts = 233107527,   Transfers = 576926187
     Flush Kickouts = 4636927

Memory Level: L2 Cache
     Hit Count = 526034487,   Miss Count = 289590095
     Total Requests = 815624582
     Hit Rate: 64.5%,   Miss Rate = 35.5%
     Kickouts = 144551150,   Dirty-kickouts = 122845198,   Transfers = 289590095
     Flush Kickouts = 8157637

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 = 43438, Invalidates = 34265045