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 = 34494268673,   Total Traces Read = 10000000106
Flush time = 777195470
Total time (Execution Time + Flush Time) = 35271464143

Number of Reference Types: [Percentage]
     Reads   =   2689845793   [26.9%]
     Writes =   580065162   [5.8%]
     Inst.   =   6730089151   [67.3%]
     Total   =   10000000106

Total Cycles for Activities: [Percentage]
     Reads   =   15014242311   [43.5%]
     Writes =   3971647714   [11.5%]
     Inst.   =   15508378648   [45.0%]
     Total   =   34494268673

Average Cycles for Activities:
     Reads = 5.6,   Writes = 6.8,   Instructions = 5.1

Ideal: Execution Time = 16730089257;   CPI = 2.5
Ideal Misaligned Execution Time = 21962901365; CPI = 3.3

Memory Level: L1 Instruction Cache
     Hit Count = 11154336309,   Miss Count = 53740579
     Total Requests = 11208076888
     Hit Rate: 99.5%,   Miss Rate = 0.5%
     Kickouts = 49861537,   Dirty-kickouts = 0,   Transfers = 53740579
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 3855607017,   Miss Count = 169128309
     Total Requests = 4024735326
     Hit Rate: 95.8%,   Miss Rate = 4.2%
     Kickouts = 119670515,   Dirty-kickouts = 42884913,   Transfers = 169128309
     Flush Kickouts = 2269986

Memory Level: L2 Cache
     Hit Count = 189045479,   Miss Count = 78978308
     Total Requests = 268023787
     Hit Rate: 70.5%,   Miss Rate = 29.5%
     Kickouts = 55137409,   Dirty-kickouts = 13405582,   Transfers = 78978308
     Flush Kickouts = 3168798

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 = 20886605