Configuration: config/all-2way_64

```
-------------------------------------------------------
                  Simulation Results
-------------------------------------------------------
Memory System:
     D Cache: Size = 8192,   Associativity = 2,   Block size = 32
     I Cache: Size = 8192,   Associativity = 2,   Block size = 32
     L2 Unified Cache: Size = 32768,    Associativity = 2,  Block size = 64
     Main Memory: Ready time = 30,  Chunksize = 64,     Chunktime = 15,

Execution Time = 29983937105,   Total Traces Read = 10000000109
Flush time = 343528437
Total time (Execution Time + Flush Time) = 30327465542

Number of Reference Types:  [Percentage]
     Reads   =   1907768017          [19.1%]
     Writes  =   727693598           [7.3%]
     Inst.   =   7364538494          [73.6%]
     Total   =   10000000109

Total Cycles for Activities:    [Percentage]
     Reads   =   6401697984          [21.4%]
     Writes  =   3877152019          [12.9%]
     Inst.   =   19705087102         [65.7%]
     Total   =   29983937105

Average Cycles for Activities:
     Reads = 3.4,    Writes = 5.3,    Instructions = 4.1

Ideal: Execution Time = 17364538603;    CPI = 2.4
Ideal Misaligned Execution Time = 23214492795;  CPI = 3.2

Memory Level: L1 Instruction Cache
     Hit Count = 12328417929,     Miss Count = 223957863
     Total Requests = 12552375792
     Hit Rate: 98.2%,     Miss Rate = 1.8%
     Kickouts = 217282337,    Dirty-kickouts = 0,     Transfers = 223957863
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 3175293706,      Miss Count = 122284803
     Total Requests = 3297578509
     Hit Rate: 96.3%,     Miss Rate = 3.7%
     Kickouts = 62676901,     Dirty-kickouts = 52965730,     Transfers = 122284803
     Flush Kickouts = 3039609

Memory Level: L2 Cache
     Hit Count = 295187405,   Miss Count = 107060600
     Total Requests = 402248005
     Hit Rate: 73.4%,     Miss Rate = 26.6%
     Kickouts = 71369925,     Dirty-kickouts = 22904199,     Transfers = 107060600
     Flush Kickouts = 3798448


System Costs:
     L1 Cache Costs (Instruction Cache $400 + Data Cache $400) = $800
     L2 Cache Costs: $100
     Main Memory Costs: $275
     Total Memory Cost: $1175

Flushes = 26315, Invalidates = 26103182

-------------------------------------------------------
```