```
Configuration: config/all-2way_8

--------------------------------------------------
                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 = 8,  Chunktime = 15,

Execution Time = 104275506254,  Total Traces Read = 16506492546
Flush time = 1789298321
Total time (Execution Time + Flush Time) = 106064804575

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   =   86297599409         [82.8%]
    Writes  =   1195477686          [1.1%]
    Inst.   =   16782429159         [16.1%]
    Total   =   104275506254

Average Cycles for Activities:
    Reads = 24.5,   Writes = 2.4,   Instructions = 8.4

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

Memory Level: L1 Instruction Cache
    Hit Count = 16620434747,     Miss Count = 954306
    Total Requests = 16621389053
    Hit Rate: 100.0%,    Miss Rate = 0.0%
    Kickouts = 4452,     Dirty-kickouts = 0,     Transfers = 954306
    Flush Kickouts = 0

Memory Level: L1 Data Cache
    Hit Count = 6262646489,      Miss Count = 576970508
    Total Requests = 6839616997
    Hit Rate: 91.6%,     Miss Rate = 8.4%
    Kickouts = 332722353,    Dirty-kickouts = 233127771,     Transfers = 576970508
    Flush Kickouts = 4636968

Memory Level: L2 Cache
    Hit Count = 524647745,   Miss Count = 291041808
    Total Requests = 815689553
    Hit Rate: 64.3%,     Miss Rate = 35.7%
    Kickouts = 144476065,    Dirty-kickouts = 124369917,     Transfers = 291041808
    Flush Kickouts = 9259361


System Costs:
     L1 Cache Costs (Instruction Cache $400 + Data Cache $400) = $800
     L2 Cache Costs: $100
     Main Memory Costs: $75
     Total Memory Cost: $975

Flushes = 43438, Invalidates = 34265061

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