Configuration: config/all-4way_8

```
-------------------------------------------------------
                 Simulation Results
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Memory System:
     D Cache: Size = 8192,  Associativity = 4,  Block size = 32
     I Cache: Size = 8192,  Associativity = 4,  Block size = 32
     L2 Unified Cache: Size = 32768,    Associativity = 4,  Block size = 64
     Main Memory: Ready time = 30,  Chunksize = 8,  Chunktime = 15,
```

Execution Time = 39464528846,   Total Traces Read = 10000000109
Flush time = 717909508
Total time (Execution Time + Flush Time) = 40182438354

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   =   9635388332   [24.4%]
     Writes =   6046424018   [15.3%]
     Inst.   =   23782716496   [60.3%]
     Total   =   39464528846

Average Cycles for Activities:
     Reads = 5.1,   Writes = 8.3,   Instructions = 5.4

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

Memory Level: L1 Instruction Cache
     Hit Count = 12332139420,   Miss Count = 220236372
     Total Requests = 12552375792
     Hit Rate: 98.2%,   Miss Rate = 1.8%
     Kickouts = 213543772,   Dirty-kickouts = 0,   Transfers = 220236372
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 3199943661,   Miss Count = 97634848
     Total Requests = 3297578509
     Hit Rate: 97.0%,   Miss Rate = 3.0%
     Kickouts = 47750742,   Dirty-kickouts = 43156900,   Transfers = 97634848
     Flush Kickouts = 3306205

Memory Level: L2 Cache
     Hit Count = 274945451,   Miss Count = 89388874
     Total Requests = 364334325
     Hit Rate: 75.5%,   Miss Rate = 24.5%
     Kickouts = 56622716,   Dirty-kickouts = 19531139,   Transfers = 89388874
     Flush Kickouts = 3310541

System Costs:
     L1 Cache Costs (Instruction Cache $600 + Data Cache $600) = $1200
     L2 Cache Costs: $150
     Main Memory Costs: $75
     Total Memory Cost: $1425

Flushes = 26315, Invalidates = 26653811