Configuration: config/all-fa_8

```
------------------------------------------------------
                Simulation Results
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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 = 48045463862,   Total Traces Read = 10000000073
Flush time = 280286560
Total time (Execution Time + Flush Time) = 48325750422

Number of Reference Types: [Percentage]
     Reads   =   1882275327   [18.8%]
     Writes =   552506959   [5.5%]
     Inst.   =   7565217787   [75.7%]
     Total   =   10000000073

Total Cycles for Activities: [Percentage]
     Reads   =   18855665789   [39.2%]
     Writes =   17011591941   [35.4%]
     Inst.   =   12178206132   [25.3%]
     Total   =   48045463862

Average Cycles for Activities:
     Reads = 10.0,   Writes = 30.8, Instructions = 6.4

Ideal: Execution Time = 17565217860;   CPI = 2.3
Ideal Misaligned Execution Time = 22199500705; CPI = 2.9

Memory Level: L1 Instruction Cache
     Hit Count = 12095352780,   Miss Count = 729742
     Total Requests = 12096082522
     Hit Rate: 100.0%,   Miss Rate = 0.0%
     Kickouts = 1681,   Dirty-kickouts = 0,   Transfers = 729742
     Flush Kickouts = 0

Memory Level: L1 Data Cache
     Hit Count = 2380675441,   Miss Count = 157524955
     Total Requests = 2538200396
     Hit Rate: 93.8%,   Miss Rate = 6.2%
     Kickouts = 89788427,   Dirty-kickouts = 60999845,   Transfers = 157524955
     Flush Kickouts = 1598968

Memory Level: L2 Cache
     Hit Count = 92526299,   Miss Count = 128327211
     Total Requests = 220853510
     Hit Rate: 41.9%,   Miss Rate = 58.1%
     Kickouts = 62038198,   Dirty-kickouts = 53365134,   Transfers = 128327211
     Flush Kickouts = 1574458

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 = 26315, Invalidates = 20387792