```
--------------------------------------------------------------------------------
      omnetpp-mem64_All-4way     Simulation Results
--------------------------------------------------------------------------------

Number of reference types:
  Number of reads   =  2009285423  [20.09%]
  Number of writes  =  1237898222  [12.38%]
  Number of inst    =  6752816355  [67.53%]
  Total             =  10000000000

Total cycles for all activities:
  Cycles for reads  =  20706193281  [41.78%]
  Cycles for writes =  5476576950  [11.05%]
  Cycles for inst   =  23382550329  [47.18%]
  Total time        =  49565320560

Average cycles per activity:
  Read  = 10.31
  Write = 4.42
  Inst  = 7.34
Ideal: Exec. Time = 16752816355; CPI = 2.48
Ideal mis-aligned: Exec. Time = 26618750504; CPI = 3.94
  Ideal execution time   =  16752816355  [CPI 2.48]
  Ideal misaligned time  =  24142954060  [CPI 3.58]

Memory level: L1i
  Hits   =  11176886229  [97.52%]
  Misses =   284359860  [2.48%]
  Total  =  11461246089
  Kickouts = 284359604, Dirty kickouts = 0, Transfers = 284359860

Memory level: L1d
  Hits   =  5710864475  [96.32%]
  Misses =   218027141  [3.68%]
  Total  =  5928891616
  Kickouts = 218026885, Dirty kickouts = 85447461, Transfers = 218027141

Memory level: L2
  Hits   =   387962332  [66.00%]
  Misses =   199872130  [34.00%]
  Total  =   587834462
  Kickouts = 199871618, Dirty kickouts = 51135782, Transfers = 199872130

Cost analysis:
  L1i cache cost = $600
  L1d cache cost = $600
  L2  cache cost = $150
  Memory cost    = $275
  Total cost     = $1625
```