```
--------------------------------------------------------------------------------
      omnetpp-mem64_All-2way     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  =  23694390148  [41.69%]
  Cycles for writes =  5998258184  [10.55%]
  Cycles for inst   =  27143643271  [47.76%]
  Total time        =  56836291603

Average cycles per activity:
  Read  = 11.79
  Write = 4.85
  Inst  = 8.42
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   =  11123145966  [97.05%]
  Misses =   338100123  [2.95%]
  Total  =  11461246089
  Kickouts = 338099867, Dirty kickouts = 0, Transfers = 338100123

Memory level: L1d
  Hits   =  5669434506  [95.62%]
  Misses =   259457110  [4.38%]
  Total  =  5928891616
  Kickouts = 259456854, Dirty kickouts = 105849456, Transfers = 259457110

Memory level: L2
  Hits   =   453267900  [64.44%]
  Misses =   250138789  [35.56%]
  Total  =   703406689
  Kickouts = 250138277, Dirty kickouts = 60980869, Transfers = 250138789

Cost analysis:
  L1i cache cost = $400
  L1d cache cost = $400
  L2  cache cost = $100
  Memory cost    = $275
  Total cost     = $1175
```