```
-------------------------------------------------------------------------
      omnetpp-mem64_All-FA     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  =  17790982627  [41.19%]
  Cycles for writes =  5163179214  [11.95%]
  Cycles for inst   =  20240235361  [46.86%]
  Total time        =  43194397202

Average cycles per activity:
  Read  = 8.85
  Write = 4.17
  Inst  = 6.40
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   =  11259288301  [98.24%]
  Misses =   201957788  [1.76%]
  Total  =  11461246089
  Kickouts = 201957532, Dirty kickouts = 0, Transfers = 201957788

Memory level: L1d
  Hits   =  5753056729  [97.03%]
  Misses =   175834887  [2.97%]
  Total  =  5928891616
  Kickouts = 175834631, Dirty kickouts = 72136579, Transfers = 175834887

Memory level: L2
  Hits   =   288582036  [64.14%]
  Misses =   161347218  [35.86%]
  Total  =   449929254
  Kickouts = 161346706, Dirty kickouts = 44738929, Transfers = 161347218

Cost analysis:
  L1i cache cost = $1800
  L1d cache cost = $1800
  L2  cache cost = $500
  Memory cost    = $275
  Total cost     = $4375
```