```
----------------------------------------------------------------------------
      omnetpp-mem64_L1-small     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  =  35769143226  [42.19%]
  Cycles for writes =  8181363249  [9.65%]
  Cycles for inst   =  40836207383  [48.16%]
  Total time        =  84786713858

Average cycles per activity:
  Read  = 17.80
  Write = 6.61
  Inst  = 12.56
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   =  10791448034  [94.16%]
  Misses =   669798055  [5.84%]
  Total  =  11461246089
  Kickouts = 669797927, Dirty kickouts = 0, Transfers = 669798055

Memory level: L1d
  Hits   =  5423480899  [91.48%]
  Misses =   505410717  [8.52%]
  Total  =  5928891616
  Kickouts = 505410589, Dirty kickouts = 217210609, Transfers = 505410717

Memory level: L2
  Hits   =   992116313  [71.25%]
  Misses =   400303068  [28.75%]
  Total  =  1392419381
  Kickouts = 400302556, Dirty kickouts = 91544599, Transfers = 400303068

Cost analysis:
  L1i cache cost = $100
  L1d cache cost = $100
  L2  cache cost = $50
  Memory cost    = $275
  Total cost     = $525
```