```
--------------------------------------------------------------------------
      omnetpp-mem32_L1i-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  =  36281944810  [41.61%]
  Cycles for writes =  8534545052  [9.79%]
  Cycles for inst   =  42381346043  [48.60%]
  Total time        =  87197835905

Average cycles per activity:
  Read  = 18.06
  Write = 6.89
  Inst  = 12.91
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   =  5562301532  [93.82%]
  Misses =   366590084  [6.18%]
  Total  =  5928891616
  Kickouts = 366589828, Dirty kickouts = 162590750, Transfers = 366590084

Memory level: L2
  Hits   =   830511583  [69.27%]
  Misses =   368467306  [30.73%]
  Total  =  1198978889
  Kickouts = 368466794, Dirty kickouts = 85941999, Transfers = 368467306

Cost analysis:
  L1i cache cost = $100
  L1d cache cost = $200
  L2  cache cost = $50
  Memory cost    = $175
  Total cost     = $525
```