```
--------------------------------------------------------------------------
        omnetpp-mem32_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  = 20246411607  [42.79%]
  Cycles for writes =  5637317334  [11.91%]
  Cycles for inst   = 21432391201  [45.30%]
  Total time        = 47316120142

Average cycles per activity:
  Read  = 10.08
  Write = 4.55
  Inst  = 7.01
Ideal: Exec. Time = 16752816355; CPI = 2.48
Ideal mis-aligned: Exec. Time = 26618750504; CPI = 3.94

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    = $175
  Total cost     = $4275
```