```
--------------------------------------------------------------------------
      gobmk-All-FA      Simulation Results
--------------------------------------------------------------------------


Number of reference types:
  Number of reads   =  1922316435  [19.22%]
  Number of writes  =   915303047  [9.15%]
  Number of inst    =  7162380518  [71.62%]
  Total             = 10000000000

Total cycles for all activities:
  Cycles for reads  = 10177636473  [18.76%]
  Cycles for writes = 11625209658  [21.43%]
  Cycles for inst   = 32434837313  [59.80%]
  Total time        = 54237683444

Average cycles per activity:
  Read  = 5.29
  Write = 12.70
  Inst  = 4.53
Ideal: Exec. Time = 17162380518; CPI = 2.4
Ideal mis-aligned: Exec. Time = 25198023284; CPI = 3.52

Memory level: L1i
  Hits   = 11768474955  [96.68%]
  Misses =   404737478  [3.32%]
  Total  = 12173212433
  Kickouts = 404737222, Dirty kickouts = 0, Transfers = 404737478

Memory level: L1d
  Hits   = 3914924730  [97.10%]
  Misses =  116899509  [2.90%]
  Total  = 4031824239
  Kickouts = 116899253, Dirty kickouts = 74510782, Transfers = 116899509

Memory level: L2
  Hits   =  449500040  [75.40%]
  Misses =  146647729  [24.60%]
  Total  =  596147769
  Kickouts = 146647217, Dirty kickouts = 40518813, Transfers = 146647729

Cost analysis:
  L1i cache cost = $1800
  L1d cache cost = $1800
  L2  cache cost = $500
  Memory cost    = $75
  Total cost     = $4175
```