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astar-mem-32 Simulation Results
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Number of reference types:
 Number of reads = 2549106849 [25.49%]
 Number of writes = 626305991 [6.26%]

Number of inst = 6824587160 [68.25%]

Total = 10000000000
Total cycles for all activities:
 Cycles for reads = 23271595940 [53.29%]
 Cycles for writes = 8930548277 [20.45%]
 Cycles for inst = 11463590927 [26.25%]
 Total time = 43665735144
Average cycles per activity:
 Read = 9.13
 Write = 14.26
 Inst = 6.40
Ideal: Exec. Time = 16824587160; CPI = 2.47
Ideal mis-aligned: Exec. Time = 23929686467; CPI = 3.51
 Ideal execution time = 16824587160 [CPI 2.47]
Ideal misaligned time = 22677074485 [CPI 3.32]
Memory level: L1i
 Hits = 11393011748 [99.99%]
 Misses =
            1303125 [0.01%]
 Total = 11394314873
 Kickouts = 1302869, Dirty kickouts = 0, Transfers = 1303125
Memory level: L1d
 Hits = 4214841543 [94.54%]
 Misses = 243330909 [5.46%]
 Total = 4458172452
 Kickouts = 243330653, Dirty kickouts = 94594555, Transfers = 243330909
Memory level: L2
 Hits = 198286480 [58.45%]
 Misses = 140942109 [41.55%]
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Kickouts = 140941597, Dirty kickouts = 65799800, Transfers = 140942109

Total = 339228589

Lli cache cost = \$200 Lld cache cost = \$200 L2 cache cost = \$50 Memory cost = \$175 Total cost = \$625

Cost analysis: