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omnetpp-mem32\_L1-small      Simulation Results

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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  | = | 40736192566 | [43.05%] |
| Cycles for writes | = | 9055787789  | [9.57%]  |
| Cycles for inst   | = | 44831686843 | [47.38%] |
| Total time        | = | 94623667198 |          |

Average cycles per activity:

|       |   |       |
|-------|---|-------|
| Read  | = | 20.27 |
| Write | = | 7.32  |
| Inst  | = | 14.01 |

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    | = | \$175 |
| Total cost     | = | \$425 |