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astar-L1-small      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  | = | 33324211848 | [58.87%] |
| Cycles for writes | = | 11711340562 | [20.69%] |
| Cycles for inst   | = | 11569088287 | [20.44%] |
| Total time        | = | 56604640697 |          |

Average cycles per activity:

|       |   |       |
|-------|---|-------|
| Read  | = | 13.07 |
| Write | = | 18.70 |
| Inst  | = | 1.70  |

Ideal: Exec. Time = 16824587160; CPI = 2.47

Ideal mis-aligned: Exec. Time = 23929686467; CPI = 3.51

Memory level: L1i

|          |   |  |          |
|----------|---|--|----------|
| Hits     | = | 11391567196                                      | [99.98%] |
| Misses   | = | 2747677  | [0.02%]  |
| Total    | = | 11394314873                                      |          |
| Kickouts | = | 2747549, Dirty kickouts = 0, Transfers = 2747677 |          |

Memory level: L1d

|          |   |  |          |
|----------|---|--|----------|
| Hits     | = | 4001371773   | [89.75%] |
| Misses   | = | 456800679  | [10.25%] |
| Total    | = | 4458172452   |          |
| Kickouts | = | 456800551, Dirty kickouts = 179643008, Transfers = 456800679 |          |

Memory level: L2

|          |   |   |          |
|----------|---|---|----------|
| Hits     | = | 502425148   | [78.60%] |
| Misses   | = | 136766216   | [21.40%] |
| Total    | = | 639191364   |          |
| Kickouts | = | 136765704, Dirty kickouts = 65606799, Transfers = 136766216 |          |

Cost analysis:

|                |   |       |
|----------------|---|-------|
| L1i cache cost | = | \$100 |
| L1d cache cost | = | \$100 |
| L2 cache cost  | = | \$50  |
| Memory cost    | = | \$75  |
| Total cost     | = | \$325 |