
astar-Lld-small Simulation Results

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 | = | 33323479668 | [58.95%] |
| Cycles for writes | = | 11712805234 | [20.72%] |
| Cycles for inst | = | 11490462399 | [20.33%] |
| Total time | = | 56526747301 | |

Average cycles per activity:

| | | |
|-------|---|-------|
| Read | = | 13.07 |
| Write | = | 18.70 |
| Inst | = | 1.68 |

Ideal: Exec. Time = 16824587160; CPI = 2.47

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

Memory level: L1i

| | | | |
|--------|---|-------------|----------|
| Hits | = | 11393011748 | [99.99%] |
| Misses | = | 1303125 | [0.01%] |
| Total | = | 11394314873 | |

Kickouts = 1302869, Dirty kickouts = 0, Transfers = 1303125

Memory level: L1d

| | | | |
|--------|---|------------|----------|
| Hits | = | 4001371773 | [89.75%] |
| Misses | = | 456800679 | [10.25%] |
| Total | = | 4458172452 | |

Kickouts = 456800551, Dirty kickouts = 179643008, Transfers = 456800679

Memory level: L2

| | | | |
|--------|---|-----------|----------|
| Hits | = | 501306381 | [78.61%] |
| Misses | = | 136440431 | [21.39%] |
| Total | = | 637746812 | |

Kickouts = 136439919, Dirty kickouts = 65580547, Transfers = 136440431

Cost analysis:

| | | |
|----------------|---|-------|
| L1i cache cost | = | \$200 |
| L1d cache cost | = | \$100 |
| L2 cache cost | = | \$50 |
| Memory cost | = | \$75 |
| Total cost | = | \$425 |