
bzip2-All-FA Simulation Results

Number of reference types:

| | | | |
|------------------|---|-------------|----------|
| Number of reads | = | 1874397115 | [18.74%] |
| Number of writes | = | 567216161 | [5.67%] |
| Number of inst | = | 7558386724 | [75.58%] |
| Total | = | 10000000000 | |

Total cycles for all activities:

| | | | |
|-------------------|---|-------------|----------|
| Cycles for reads | = | 18285268745 | [38.77%] |
| Cycles for writes | = | 16911508909 | [35.86%] |
| Cycles for inst | = | 11967484275 | [25.37%] |
| Total time | = | 47164261929 | |

Average cycles per activity:

| | | |
|-------|---|-------|
| Read | = | 9.76 |
| Write | = | 29.81 |
| Inst | = | 1.58 |

Ideal: Exec. Time = 17558386724; CPI = 2.32

Ideal mis-aligned: Exec. Time = 23201139335; CPI = 3.07

Memory level: L1i

| | | | |
|----------|---|--|-----------|
| Hits | = | 11966586014 | [100.00%] |
| Misses | = | 6939 | [0.00%] |
| Total | = | 11966592953 | |
| Kickouts | = | 6683, Dirty kickouts = 0, Transfers = 6939 | |

Memory level: L1d

| | | | |
|----------|---|---|----------|
| Hits | = | 2379071440 | [93.60%] |
| Misses | = | 162655896 | [6.40%] |
| Total | = | 2541727336 | |
| Kickouts | = | 162655640, Dirty kickouts = 69711198, Transfers = 162655896 | |

Memory level: L2

| | | | |
|----------|---|---|----------|
| Hits | = | 99223380 | [42.70%] |
| Misses | = | 133150653 | [57.30%] |
| Total | = | 232374033 | |
| Kickouts | = | 133150141, Dirty kickouts = 63118740, Transfers = 133150653 | |

Cost analysis:

| | | |
|----------------|---|--------|
| L1i cache cost | = | \$1800 |
| L1d cache cost | = | \$1800 |
| L2 cache cost | = | \$500 |
| Memory cost | = | \$75 |
| Total cost | = | \$4175 |