
bzip2-L1i-small 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 | = | 21168887421 | [40.97%] |
| Cycles for writes | = | 18509339581 | [35.82%] |
| Cycles for inst | = | 11990304675 | [23.21%] |
| Total time | = | 51668531677 | |

Average cycles per activity:

| | | |
|-------|---|-------|
| Read | = | 11.29 |
| Write | = | 32.63 |
| Inst | = | 1.59 |

Ideal: Exec. Time = 17558386724; CPI = 2.32

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

Memory level: L1i

| | | | |
|----------|---|--|----------|
| Hits | = | 11965490130 | [99.99%] |
| Misses | = | 1102823 | [0.01%] |
| Total | = | 11966592953 | |
| Kickouts | = | 1102695, Dirty kickouts = 0, Transfers = 1102823 | |

Memory level: L1d

| | | | |
|----------|---|---|----------|
| Hits | = | 2360740266 | [92.88%] |
| Misses | = | 180987070 | [7.12%] |
| Total | = | 2541727336 | |
| Kickouts | = | 180986814, Dirty kickouts = 75658750, Transfers = 180987070 | |

Memory level: L2

| | | | |
|----------|---|---|----------|
| Hits | = | 100852695 | [39.13%] |
| Misses | = | 156895948 | [60.87%] |
| Total | = | 257748643 | |
| Kickouts | = | 156895436, Dirty kickouts = 66969959, Transfers = 156895948 | |

Cost analysis:

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