
bzip2-L2-Big 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 | = | 18767801181 | [38.28%] |
| Cycles for writes | = | 18297521656 | [37.32%] |
| Cycles for inst | = | 11967513511 | [24.41%] |
| Total time | = | 49032836348 | |

Average cycles per activity:

| | | |
|-------|---|-------|
| Read | = | 10.01 |
| Write | = | 32.26 |
| Inst | = | 1.58 |

Ideal: Exec. Time = 17558386724; CPI = 2.32

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

Memory level: L1i

| | | | |
|----------|---|--|-----------|
| Hits | = | 11966585724 | [100.00%] |
| Misses | = | 7229 | [0.00%] |
| Total | = | 11966592953 | |
| Kickouts | = | 6973, Dirty kickouts = 0, Transfers = 7229 | |

Memory level: L1d

| | | | |
|----------|---|---|----------|
| Hits | = | 2376682331 | [93.51%] |
| Misses | = | 165045005 | [6.49%] |
| Total | = | 2541727336 | |
| Kickouts | = | 165044749, Dirty kickouts = 70704191, Transfers = 165045005 | |

Memory level: L2

| | | | |
|----------|---|---|----------|
| Hits | = | 90203610 | [38.26%] |
| Misses | = | 145552815 | [61.74%] |
| Total | = | 235756425 | |
| Kickouts | = | 145551791, Dirty kickouts = 62927057, Transfers = 145552815 | |

Cost analysis:

| | | |
|----------------|---|-------|
| L1i cache cost | = | \$400 |
| L1d cache cost | = | \$400 |
| L2 cache cost | = | \$50 |
| Memory cost | = | \$75 |
| Total cost | = | \$925 |