

Number of reference types:

| | | | |
|------------------|---|-------------|----------|
| Number of reads | = | 2009285423 | [20.09%] |
| Number of writes | = | 1237898222 | [12.38%] |
| Number of inst | = | 6752816355 | [67.53%] |
| Total | = | 10000000000 | |

Total cycles for all activities:

| | | | |
|-------------------|---|-------------|----------|
| Cycles for reads | = | 29365411704 | [43.34%] |
| Cycles for writes | = | 7057798820 | [10.42%] |
| Cycles for inst | = | 31338104215 | [46.25%] |
| Total time | = | 67761314739 | |

Average cycles per activity:

| | | |
|-------|---|-------|
| Read | = | 14.61 |
| Write | = | 5.70 |
| Inst | = | 10.03 |

Ideal: Exec. Time = 16752816355; CPI = 2.48

Ideal mis-aligned: Exec. Time = 26618750504; CPI = 3.94

Memory level: L1i

| | | | |
|--------|---|-------------|----------|
| Hits | = | 11123145966 | [97.05%] |
| Misses | = | 338100123 | [2.95%] |
| Total | = | 11461246089 | |

Kickouts = 338099867, Dirty kickouts = 0, Transfers = 338100123

Memory level: L1d

| | | | |
|--------|---|------------|----------|
| Hits | = | 5669434506 | [95.62%] |
| Misses | = | 259457110 | [4.38%] |
| Total | = | 5928891616 | |

Kickouts = 259456854, Dirty kickouts = 105849456, Transfers = 259457110

Memory level: L2

| | | | |
|--------|---|-----------|----------|
| Hits | = | 414993528 | [59.00%] |
| Misses | = | 288413161 | [41.00%] |
| Total | = | 703406689 | |

Kickouts = 288412649, Dirty kickouts = 66670847, Transfers = 288413161

Cost analysis:

| | | |
|----------------|---|--------|
| L1i cache cost | = | \$400 |
| L1d cache cost | = | \$400 |
| L2 cache cost | = | \$50 |
| Memory cost | = | \$175 |
| Total cost | = | \$1025 |