

TAGE-SCL (Andrez) vs TAGE-SC-L (Alberto Ros)

Data Quality:

Valid traces: 100

Skipped traces: 5 (zero MPKI)

Table 1: Delta Statistics ($\Delta = \text{MPKI}_{\text{TAGE-SC-L}} - \text{MPKI}_{\text{TAGE-SCL}}$)

| Statistic | Value (MPKI) |
|-----------|--------------|
| Average | +0.0617 |
| Std Dev | 0.1539 |
| Median | +0.0233 |

Improvement Analysis:

TAGE-SCL (Andrez) beats TAGE-SC-L (Alberto Ros) on 77 out of 100 traces (77.0%).

Worst-Case MPKI:

TAGE-SC-L: 23.7948

TAGE-SCL: 23.3263

Conclusion:

There is very little difference in MPKI between the two predictors (about 0.06 MPKI on average), which is negligible. Both are based on the same baseline and provide different optimizations, but overall, their impact is minimal. If the smallest improvements matter, TAGE-SCL (Andrez) wins on 77% of the benchmarks, so it very weakly subsumes TAGE-SC-L (Alberto Ros).