

## Report-2

### Measurements

In this project we measure L1 Cache Overall Miss Rates and Program execution time to analysis the performance of the new configuration. All stats are captured in stats.txt in m5src folder. In order calculate the overall\_miss\_rate we apply below formula.

Program\_Execution Time = (time taken in seconds to run the Benchmark Programs)

$$\text{L1\_Overall\_Miss\_Rates} = \frac{(\text{total misses} \in d - \text{cache} + \text{total misses} \in i - \text{cache})}{(\text{total accesses} \in d - \text{cache} + \text{total accesses} \in i - \text{cache})}$$

Note: L1 miss rate that being major contributor to the performance and also execution time.

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