



Figure 1: Mean task timing metrics in each level of a 4-level tree aggregation on 16 nodes with 256 partitions of the underlying RDD. The operation is a distributed gradient vector computation for 20 million instances in the labelled point RDD, and the problem has a dimension of approximately 30 million. The mean total task time is τ , and the execution, garbage collection, serialization/deserialization, and communication times are t_{ex} , t_{gc} , t_{ser} , and t_{io} , respectively.