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Performance – MP3

As shown by the data below, increasing the buffer size decreases execution time of the threads, which improves performance. Increasing the buffer size allows for more data to be fit in at a time, however, the performance improvement was not significant. Increasing the number of worker threads, however, does not appear to affect performance. The number of requests tested was 100,000 in both test cases. Multithreading in this case did not seem to improve performance.

Workers	Execution Time (s)
1	28.78262
2	14.99297
3	26.71488
4	21.30847
5	17.39223
6	22.71791
7	19.15497
8	28.05896
9	13.13073
10	31.7142

Buffer Size	Execution Time (s)
1	23.8337
10	18.68483
100	16.14328
1000	8.236302
10000	8.52469
100000	10.15021
1000000	10.30228

Performance of Workers

Execution Time (s) vs Worker Threads

Performance of Buffer Size

Execution Time (s) vs Buffer Size