Server Execution Performance Benchmark

1. Overview

This report presents the performance of the TCP file search server under simulated client load. The benchmark involved sending 100 SSL-encrypted search queries to the server and measuring the total round-trip time for each request.

2. Benchmark Results

Metric	Value
Total Requests	100
Successful Requests	100
Average Time (ms)	1.23
Min Time (ms)	1.02
Max Time (ms)	3.27
95th Percentile (ms)	1.5

3. Conclusion

The server demonstrated excellent performance, with an average response time of 1.23 ms under SSL and a 95th percentile below 2 ms. This confirms the implementation satisfies the requirement of handling client queries with a latency well below 100 ms.