ECE 568 Engineering Robust Server Software
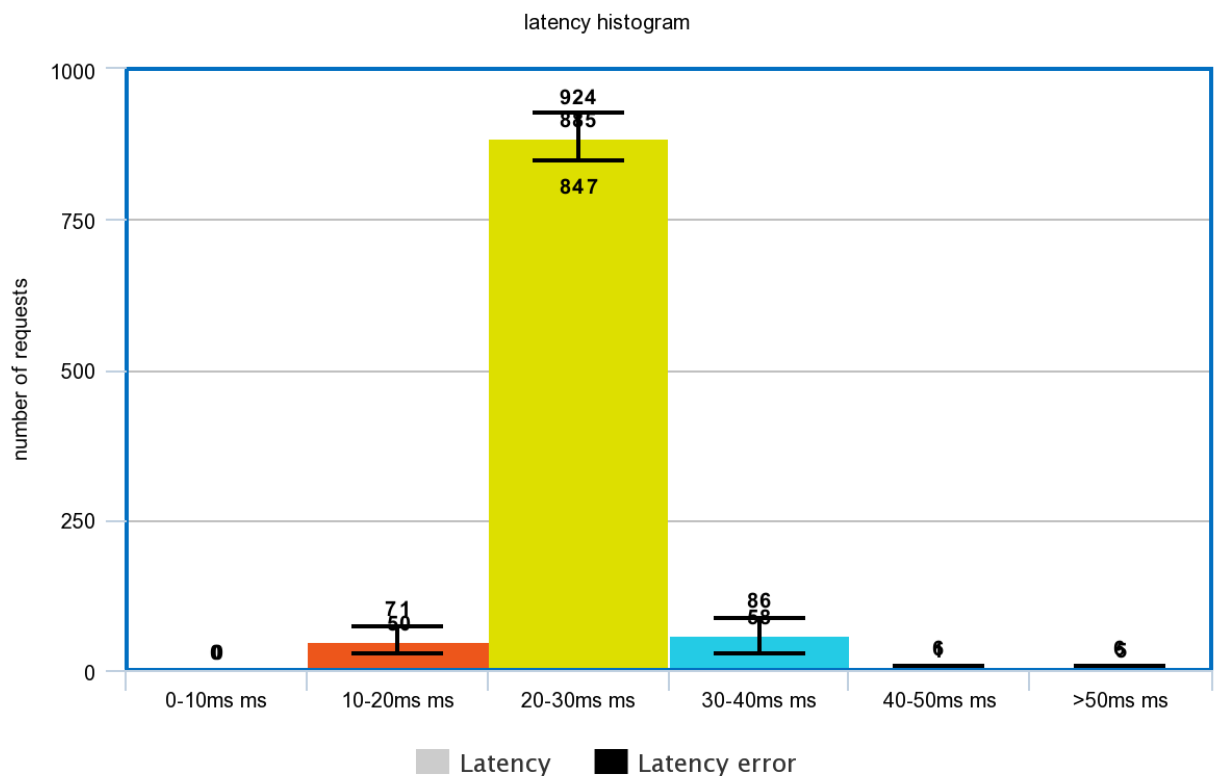
Homework 4: Exchange Matching Server
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Scalability Test:

We use a function which can produce random order requests, to test the latency and throughput of the requests' processing. We run the test programs 10 times, each time it will send 1000 requests to the server. Basically the latency of each request lies between 10 to 60 ms. We draw a table to make it more straight-forward, with the statistical average number and standard deviation.

Two Core VM:

latency histogram

Throughput:

Total Latency:

28846
28498
27847
27762
28426
28858
27886
28767
28664
27789

Total requests per attempt = 1000
Avg Throughput: 1000/28.334 = 39.29 requests per second