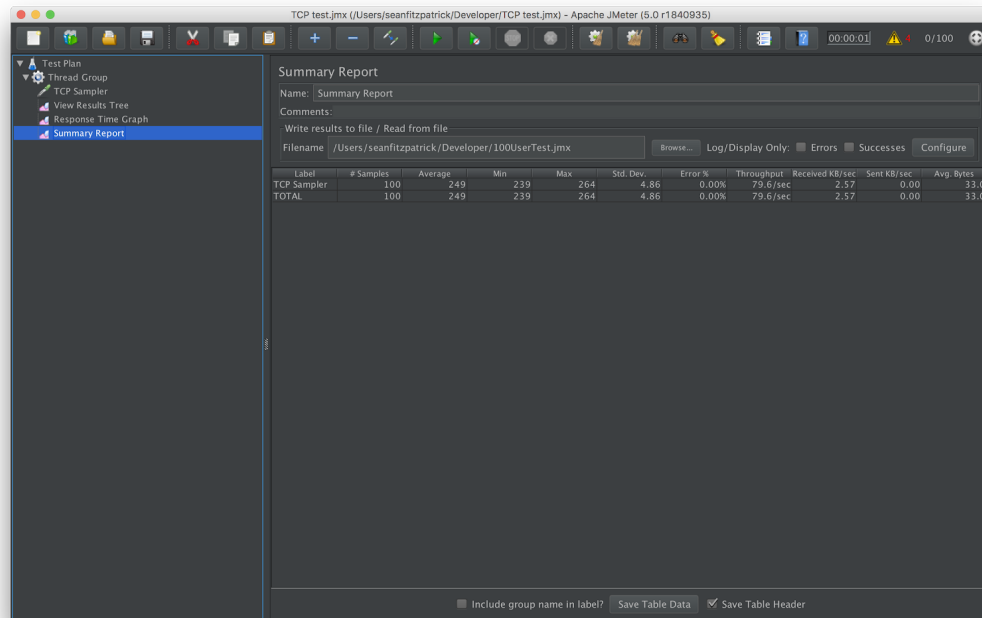


Team 108 JMeter Report

We setup JMeter to test a set number of concurrent users to all send a simple broadcast type message, and measured the response time from the server. Our findings were as follows:

100 Users - the average response time from the server was 249ms

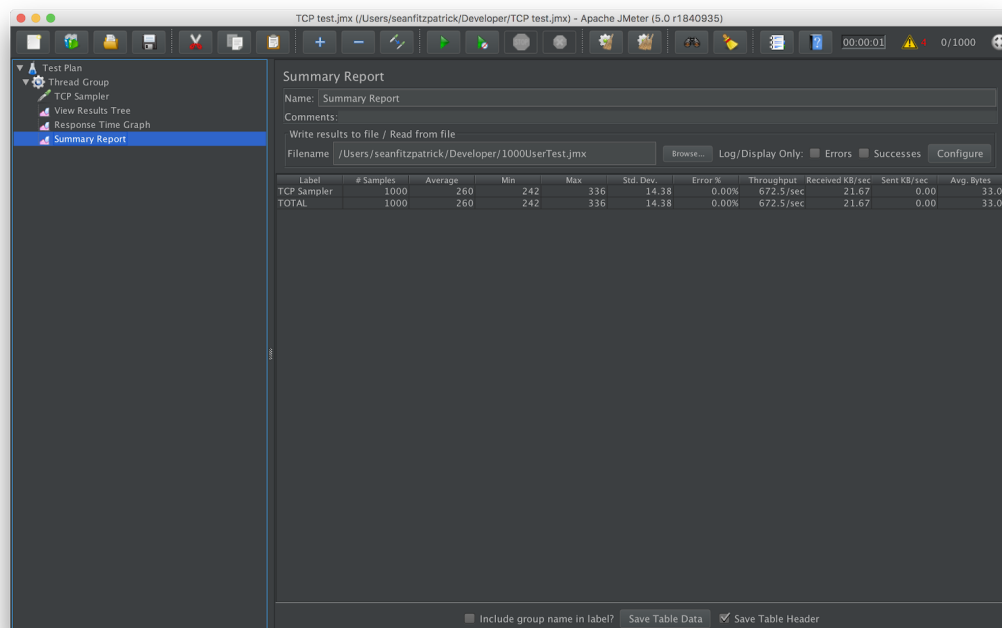


The screenshot shows the JMeter Summary Report window for a test plan named 'TCP test.jmx'. The report is titled 'Summary Report' and shows the following data:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
TCP Sampler	100	249	239	264	4.86	0.00%	79.6/sec	2.57	0.00	33.0
TOTAL	100	249	239	264	4.86	0.00%	79.6/sec	2.57	0.00	33.0

The interface also includes a sidebar with 'Test Plan', 'Thread Group', 'TCP Sampler', 'View Results Tree', 'Response Time Graph', and 'Summary Report'. The 'Summary Report' tab is selected. The 'Filename' field is set to '/Users/seanfitzpatrick/Developer/100UserTest.jmx'. The 'Log/Display Only' checkbox is checked. The 'Include group name in label?' checkbox is unchecked. The 'Save Table Data' and 'Save Table Header' checkboxes are checked.

1000 Users - the average response time from the server was 260 ms, slightly higher

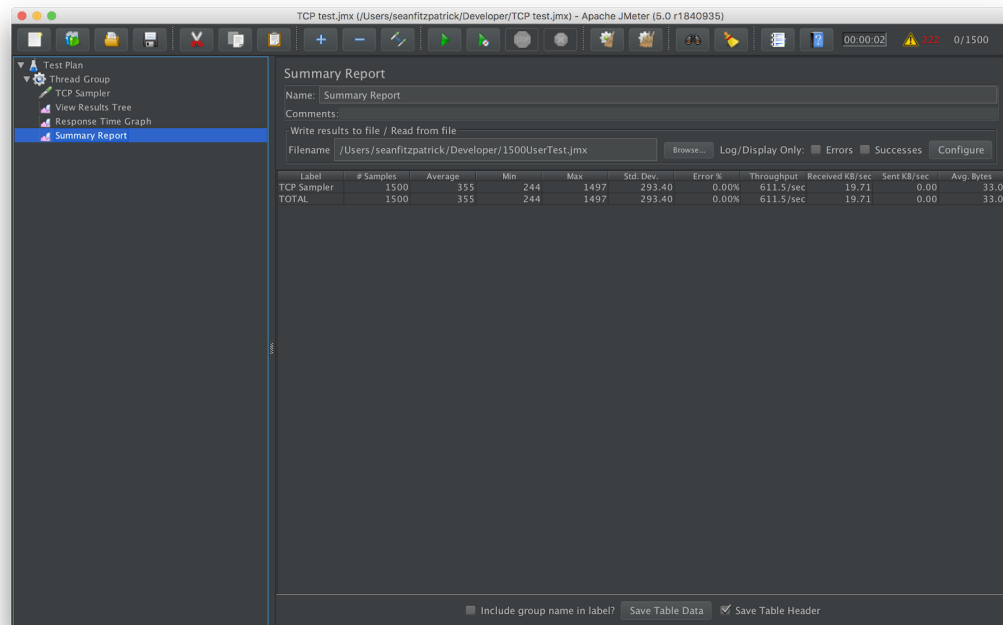


The screenshot shows the JMeter Summary Report window for a test plan named 'TCP test.jmx'. The report is titled 'Summary Report' and shows the following data:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
TCP Sampler	1000	260	242	336	14.38	0.00%	672.5/sec	21.67	0.00	33.0
TOTAL	1000	260	242	336	14.38	0.00%	672.5/sec	21.67	0.00	33.0

The interface also includes a sidebar with 'Test Plan', 'Thread Group', 'TCP Sampler', 'View Results Tree', 'Response Time Graph', and 'Summary Report'. The 'Summary Report' tab is selected. The 'Filename' field is set to '/Users/seanfitzpatrick/Developer/1000UserTest.jmx'. The 'Log/Display Only' checkbox is checked. The 'Include group name in label?' checkbox is unchecked. The 'Save Table Data' and 'Save Table Header' checkboxes are checked.

1500 Users - average response time of 355ms, a significant increase that we would learn indicates nearing the limits of our server's capability.

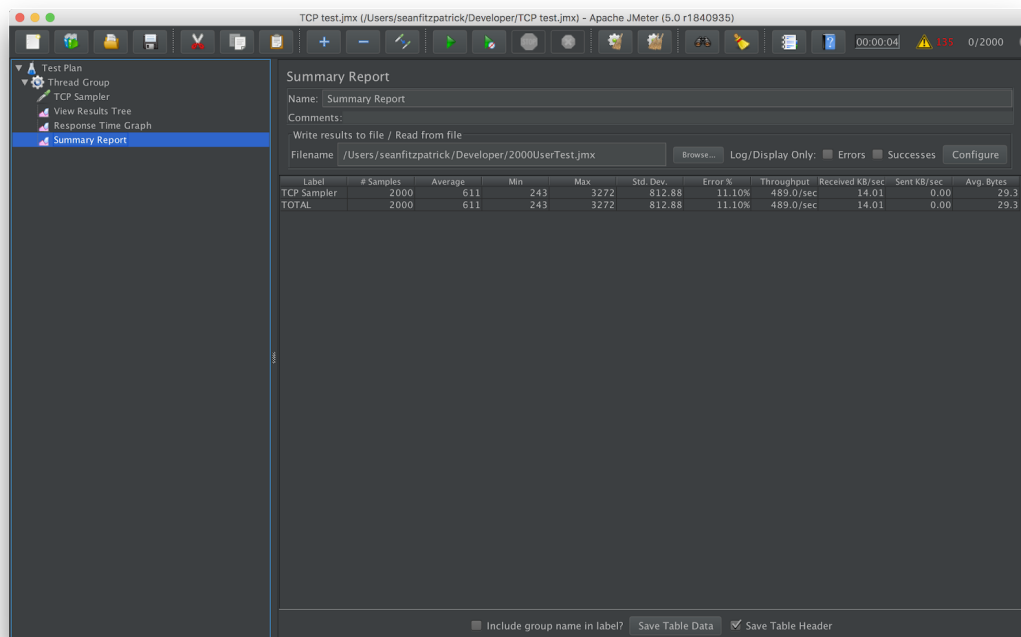


The screenshot shows the Apache JMeter Summary Report for a test plan named 'TCP test.jmx'. The report is titled 'Summary Report' and shows the following data:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
TCP Sampler	1500	355	244	1497	293.40	0.00%	611.5/sec	19.71	0.00	33.0
TOTAL	1500	355	244	1497	293.40	0.00%	611.5/sec	19.71	0.00	33.0

The report also includes a 'Write results to file / Read from file' section with a filename of '/Users/seanfitzpatrick/Developer/1500UserTest.jmx'. The 'Log/Display Only' section is set to 'Errors', 'Successes', and 'Configure'. The 'Include group name in label?' checkbox is checked, and the 'Save Table Data' and 'Save Table Header' checkboxes are also checked.

2000 Users - failures start to occur, so the average response time is not a reliable measure in this case. In this particular attempt failures began to occur around 1800 users, but in other tests failures began to occur as early as ~1600 users. We never experienced failures at 1500 users, so we estimate the maximum load to be around 1500 users.



The screenshot shows the Apache JMeter Summary Report for a test plan named 'TCP test.jmx'. The report is titled 'Summary Report' and shows the following data:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
TCP Sampler	2000	611	243	3272	812.88	11.10%	489.0/sec	14.01	0.00	29.3
TOTAL	2000	611	243	3272	812.88	11.10%	489.0/sec	14.01	0.00	29.3

The report also includes a 'Write results to file / Read from file' section with a filename of '/Users/seanfitzpatrick/Developer/2000UserTest.jmx'. The 'Log/Display Only' section is set to 'Errors', 'Successes', and 'Configure'. The 'Include group name in label?' checkbox is checked, and the 'Save Table Data' and 'Save Table Header' checkboxes are also checked.