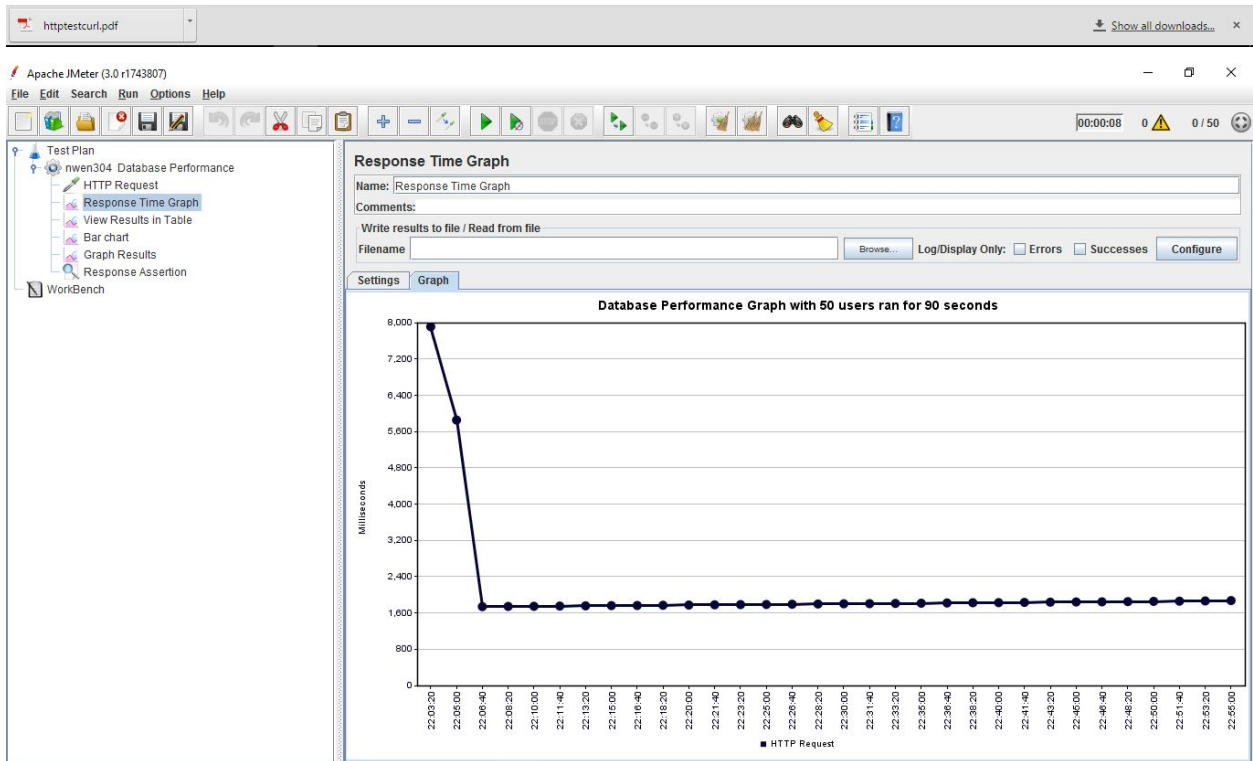
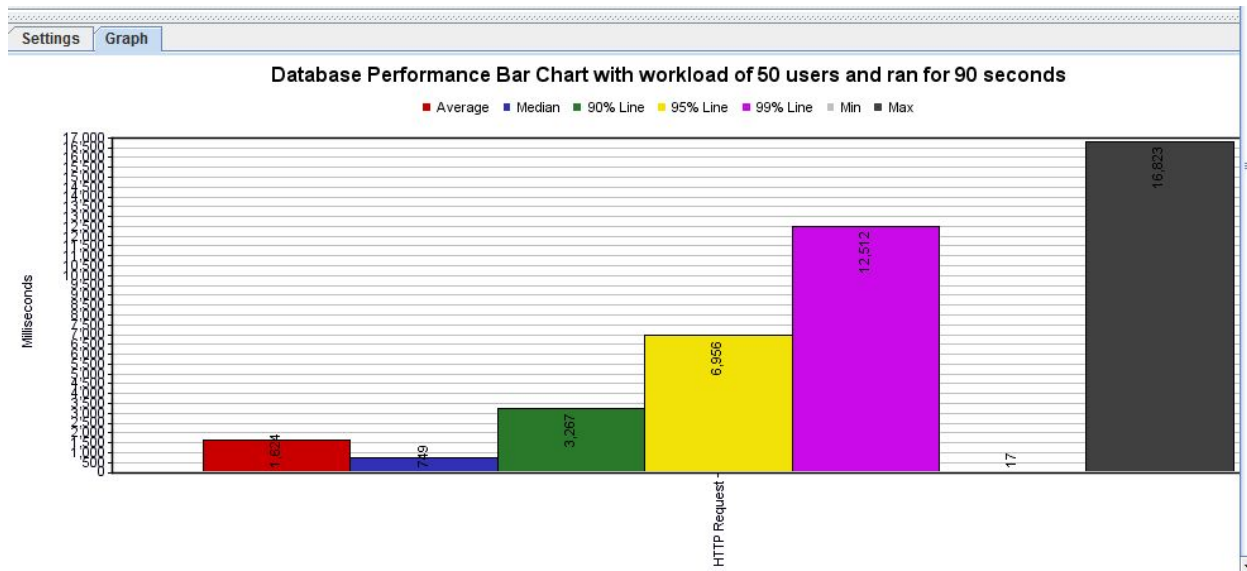


Database Performance with 50 users (Backend)

```
https://nwen304group6.herokuapp.com/store
[{"itemId":8,"name":"Suntory Whisky","description":"whisky, alcohol, grog, spirits, Bill Murry, gift:", "price":"$80.00", "image":"/product_img/6.jpg", "colour":"none"},
{"itemId":3,"name":"Red Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/1.jpg", "colour":"red"},
{"itemId":15,"name":"Red Large Shirt", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/13.jpg", "colour":"red"},
{"itemId":10,"name":"Reusable Red Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/8.jpg", "colour":"red"},
{"itemId":16,"name":"Green Large Shirt", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/14.jpg", "colour":"green"},
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{"itemId":11,"name":"Blue Shirt", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/9.jpg", "colour":"blue"},
{"itemId":17,"name":"Blue Large Shirt", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/15.jpg", "colour":"blue"},
{"itemId":5,"name":"Small White Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$50.00", "image":"/product_img/3.jpg", "colour":"white"},
{"itemId":9,"name":"Medium White Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/7.jpg", "colour":"white"},
{"itemId":13,"name":"Large White Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/11.jpg", "colour":"white"},
{"itemId":4,"name":"Reusable Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$70.00", "image":"/product_img/2.jpg", "colour":"white"},
{"itemId":6,"name":"Yellow Grocery Bag", "description":"shopping bag, shopping, bag, merchandise, consumerism, gift:", "price":"$90.00", "image":"/product_img/4.jpg", "colour":"yellow"},
{"itemId":18,"name":"Fancy Large Shirt", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/16.jpg", "colour":"pink"},
{"itemId":14,"name":"Black Singlet", "description":"shopping shirts, shopping, shirts, merchandise, consumerism, gift:", "price":"$80.00", "image":"/product_img/12.jpg", "colour":"black"}]
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Apache JMeter (3.0 r1743807)

File Edit Search Run Options Help

Test Plan
nwen304 Database Performance
HTTP Request
Response Time Graph
View Results in Table
Bar chart
Graph Results
Response Assertion
WorkBench

View Results in Table

Name: View Results in Table

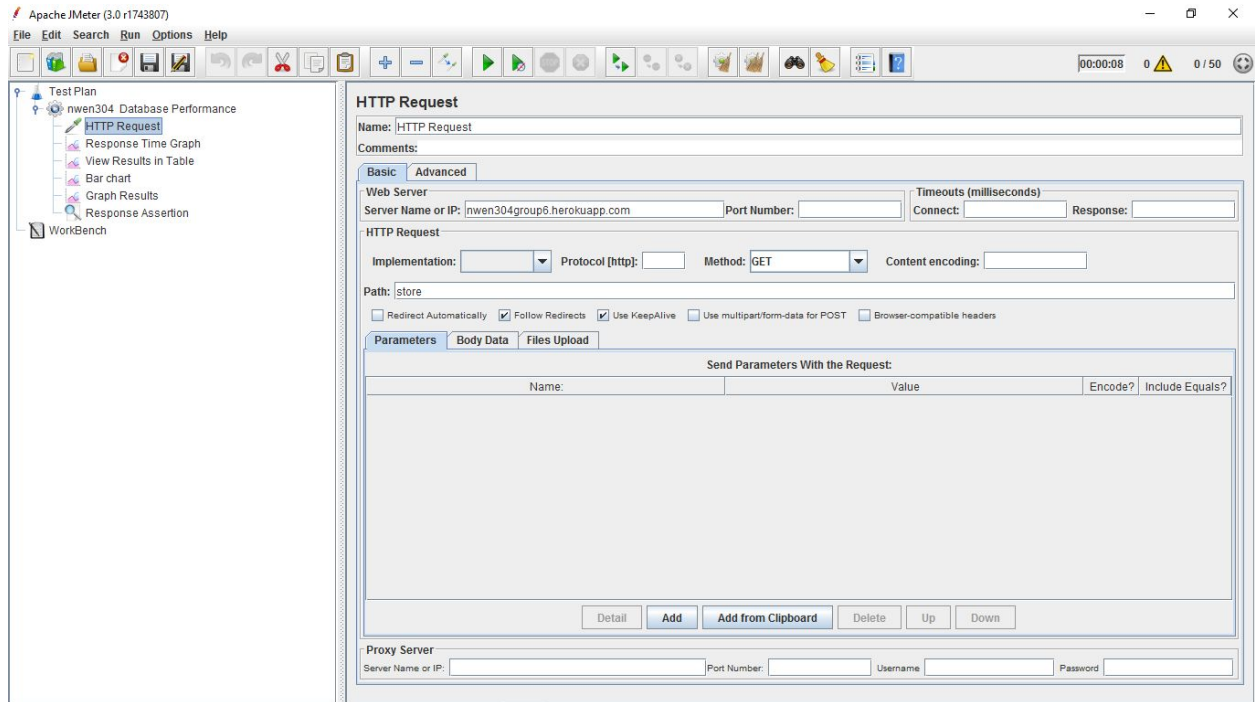
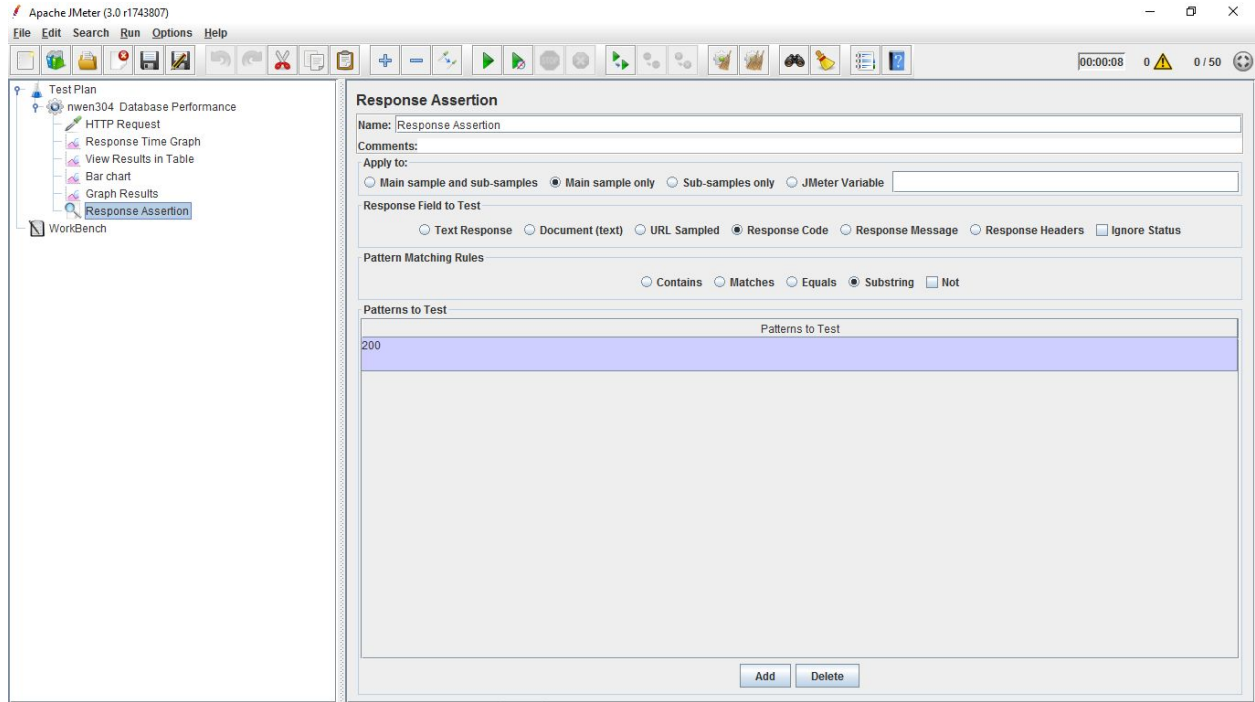
Comments:

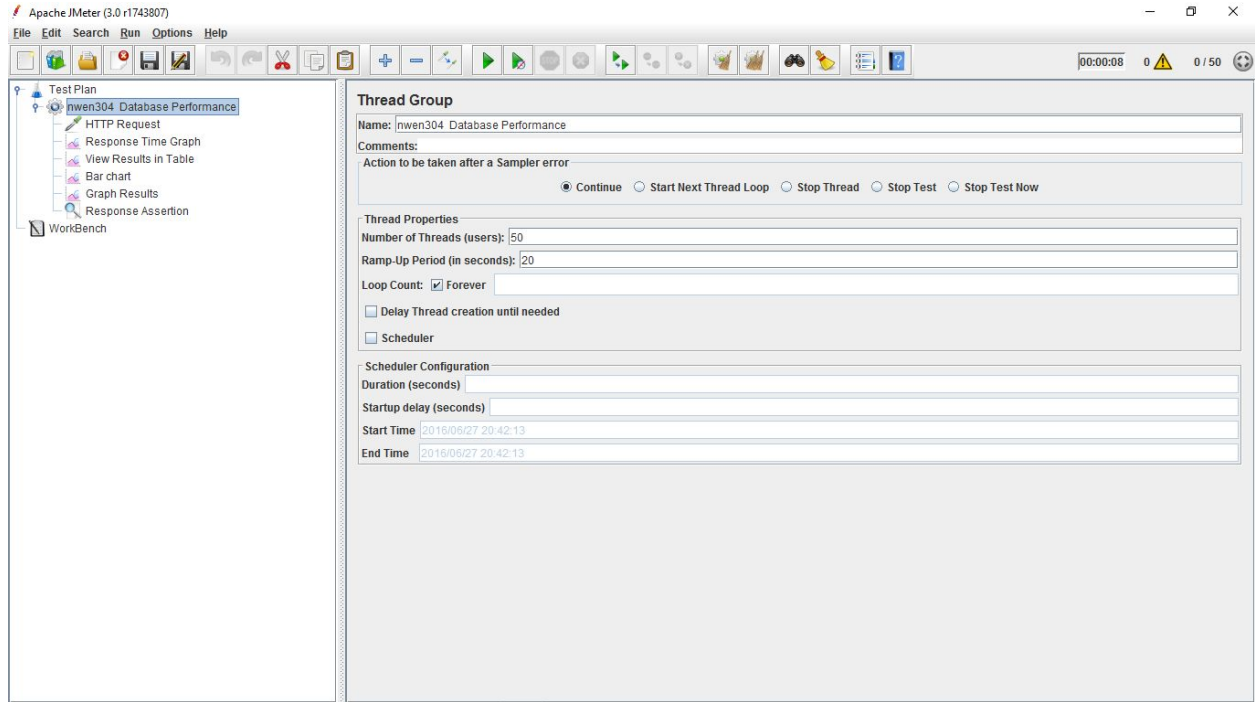
Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

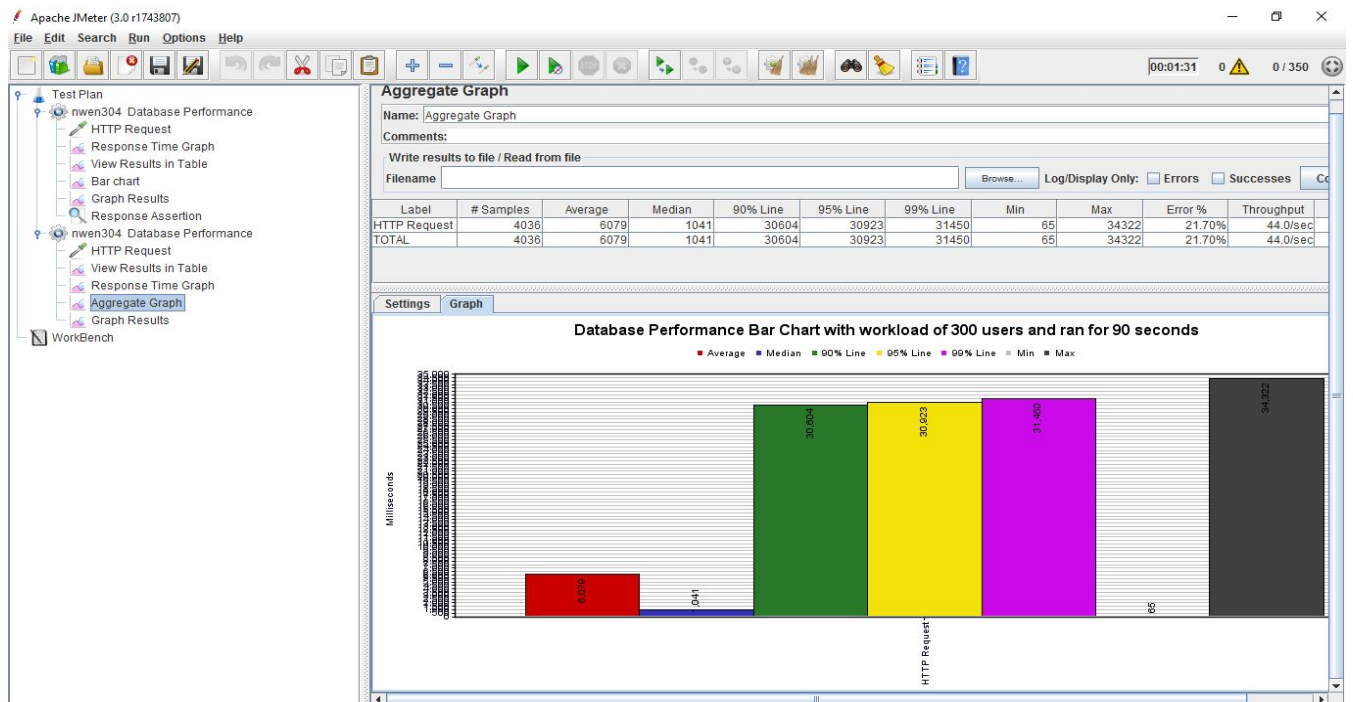
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Latency	Connect Time(ms)
55	22:07:24.037	nwen304 1-18	HTTP Request	579	✓	3882	288	0
56	22:07:24.037	nwen304 1-18	HTTP Request	579	✓	3882	288	0
57	22:07:22.907	nwen304 1-22	HTTP Request	1713	✓	3880	517	249
58	22:07:23.595	nwen304 1-13	HTTP Request	1371	✓	3886	473	228
59	22:07:24.248	nwen304 1-19	HTTP Request	749	✓	3882	288	0
60	22:07:23.811	nwen304 1-16	HTTP Request	1526	✓	3884	462	225
61	22:07:24.421	nwen304 1-11	HTTP Request	983	✓	3886	257	0
62	22:07:24.542	nwen304 1-21	HTTP Request	868	✓	3882	268	0
63	22:07:24.415	nwen304 1-20	HTTP Request	1020	✓	3880	263	0
64	22:07:23.784	nwen304 1-2	HTTP Request	1733	✓	3880	528	255
65	22:07:24.566	nwen304 1-9	HTTP Request	952	✓	3884	389	0
66	22:07:23.306	nwen304 1-24	HTTP Request	2238	✓	3882	494	225
67	22:07:23.866	nwen304 1-3	HTTP Request	1680	✓	3886	557	266
68	22:07:23.836	nwen304 1-5	HTTP Request	1710	✓	3888	545	267
69	22:07:23.107	nwen304 1-23	HTTP Request	2444	✓	3879	650	321
70	22:07:24.038	nwen304 1-15	HTTP Request	1669	✓	3882	567	266
71	22:07:23.507	nwen304 1-25	HTTP Request	2203	✓	3884	538	255
72	22:07:24.966	nwen304 1-13	HTTP Request	766	✓	3884	275	0
73	22:07:23.707	nwen304 1-26	HTTP Request	2028	✓	3882	513	227
74	22:07:24.289	nwen304 1-17	HTTP Request	1477	✓	3882	458	229
75	22:07:24.396	nwen304 1-6	HTTP Request	1482	✓	3886	621	224
76	22:07:23.907	nwen304 1-27	HTTP Request	2026	✓	3884	517	253
77	22:07:24.616	nwen304 1-18	HTTP Request	1471	✓	3882	596	256
78	22:07:25.338	nwen304 1-16	HTTP Request	751	✓	3884	336	0
79	22:07:24.108	nwen304 1-28	HTTP Request	2005	✓	3886	525	261
80	22:07:25.518	nwen304 1-2	HTTP Request	629	✓	3880	308	0
81	22:07:25.549	nwen304 1-5	HTTP Request	638	✓	3882	330	0
82	22:07:25.546	nwen304 1-3	HTTP Request	642	✓	3882	333	0
83	22:07:25.766	nwen304 1-17	HTTP Request	546	✓	3888	271	0
84	22:07:25.707	nwen304 1-15	HTTP Request	634	✓	3880	360	0

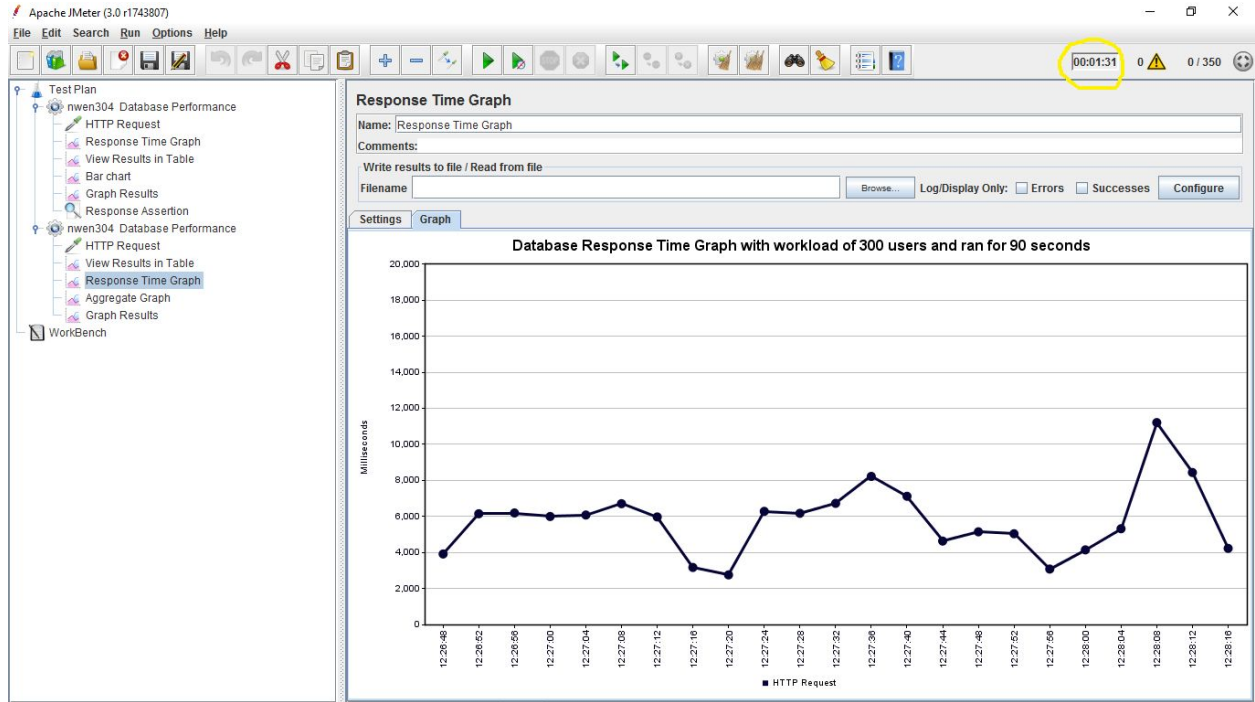
☒ Scroll automatically? ☐ Child samples? No of Samples 559 Latest Sample 1455 Average 1624 Deviation 2396



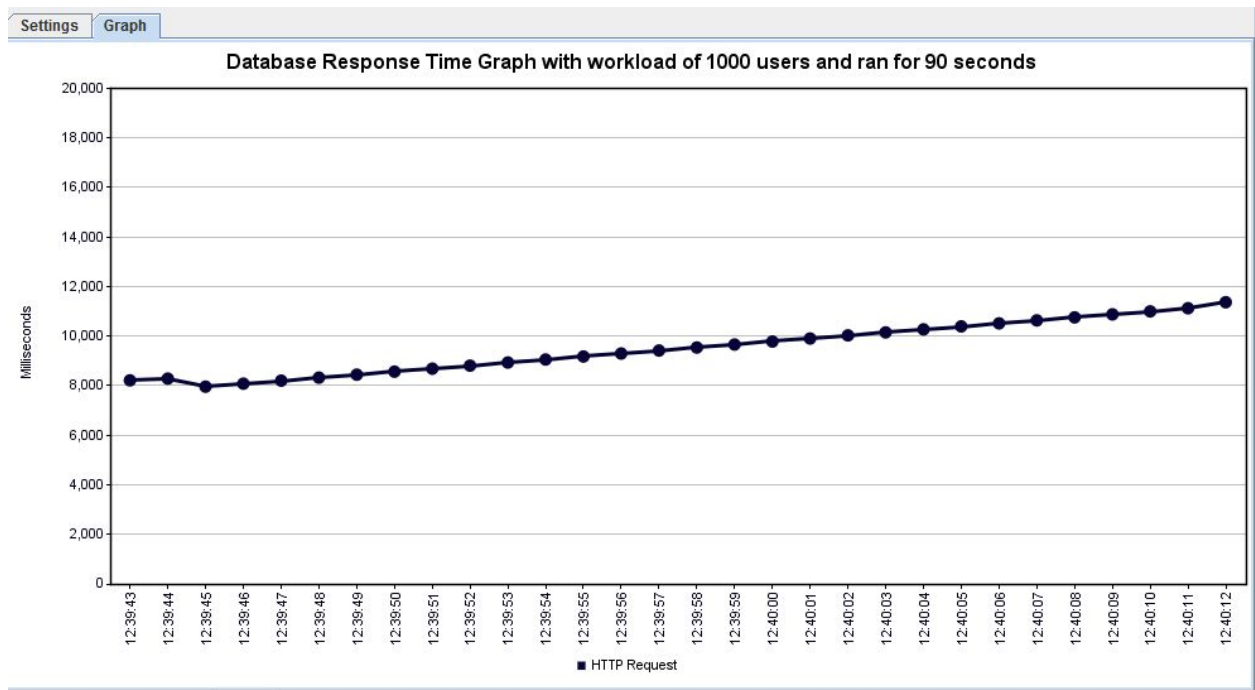


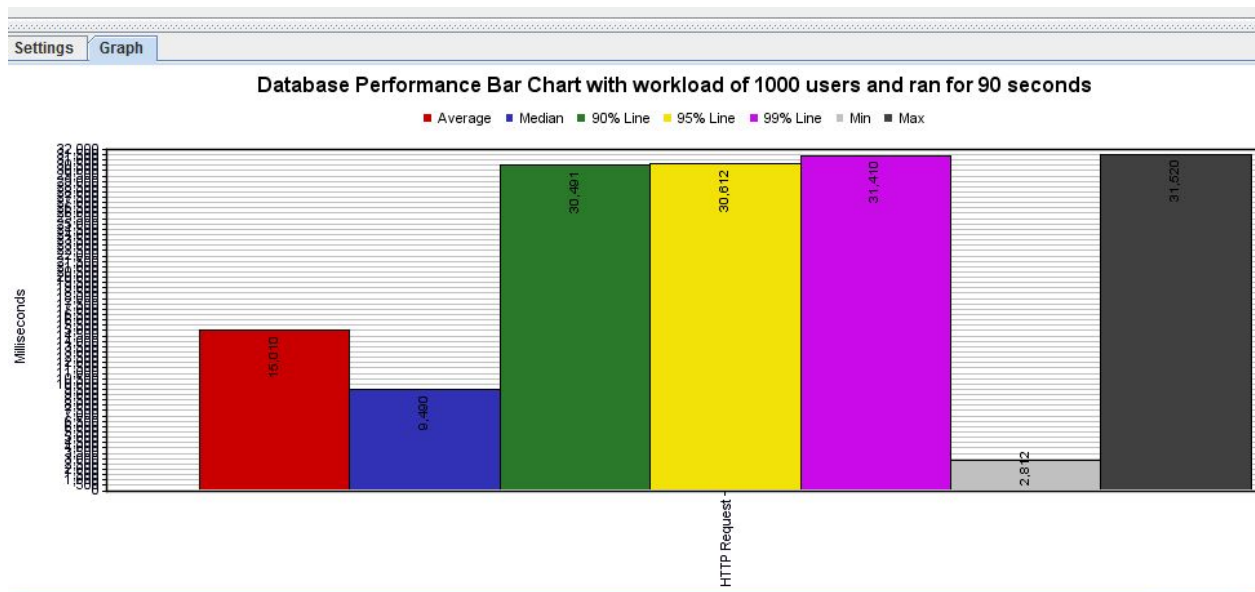
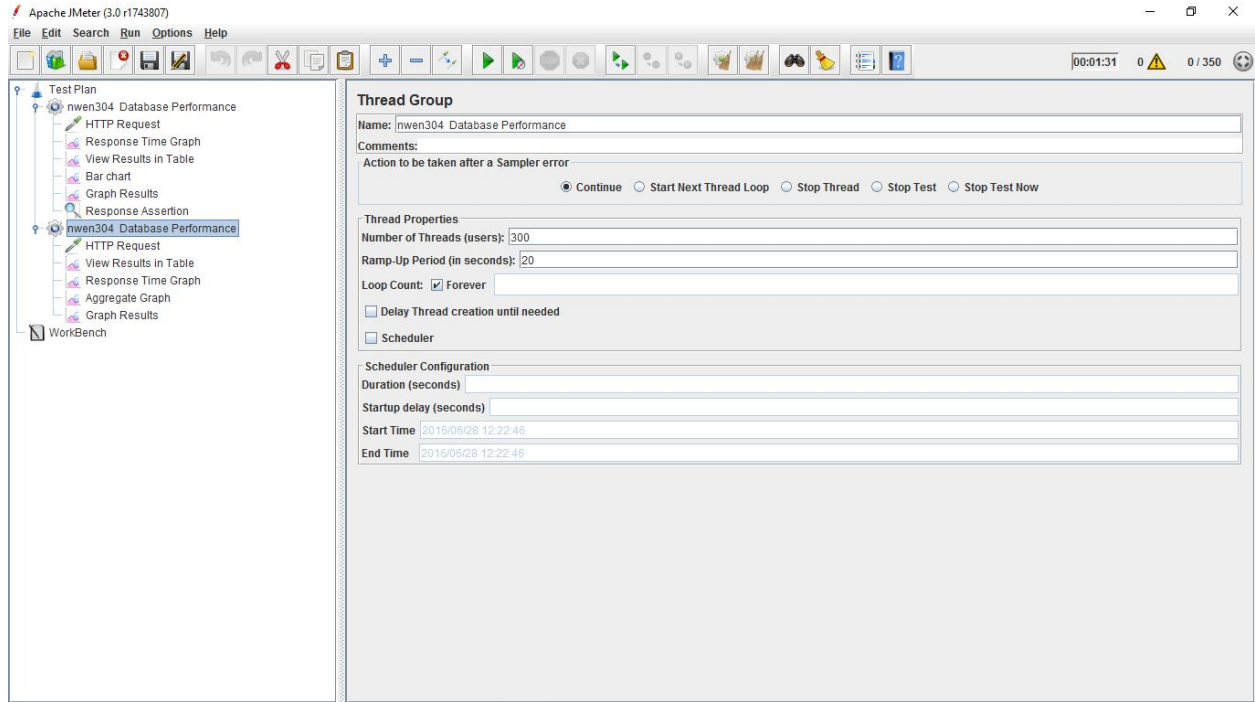
With 300 users database performance





With 1000 users Database Performance






Front end performance with 50 users ran for 90 seconds (shopping page)

https://nwen304group6.herokuapp.com/goShopping


Name: B.k. Shaikh


[Home](#)


[Log Out](#)


Wellington,
Current Conditions:
 Cloudy
 11.7 Degrees

 Cloudy but not cold, check out some jerseys


[VIEW CART](#)



 Red Grocery Bag



 Reusable Grocery Bag



 Small White Grocery Bag



 Yellow Grocery Bag



 Reusable Green Bag



 Suntory Whisky



 Medium White Grocery Bag


 Reusable Red Bag

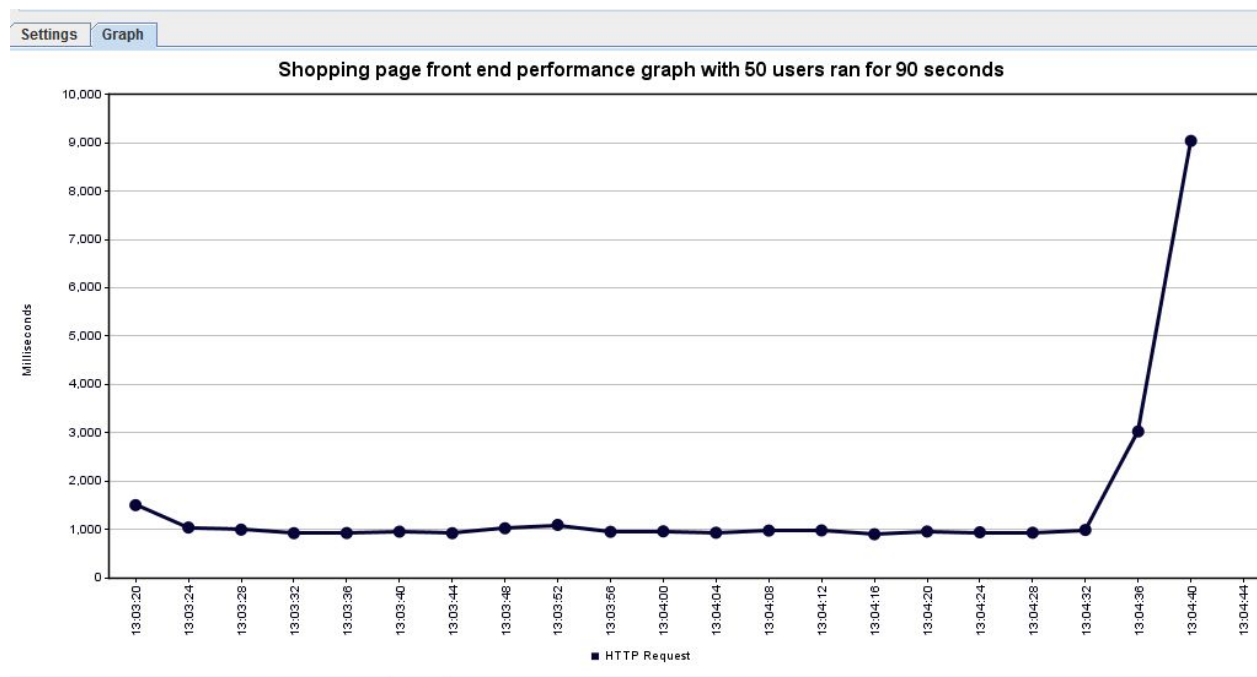

 Blue Shirt


 Green Shirt


 Large White Grocery Bag


 Black Singlet

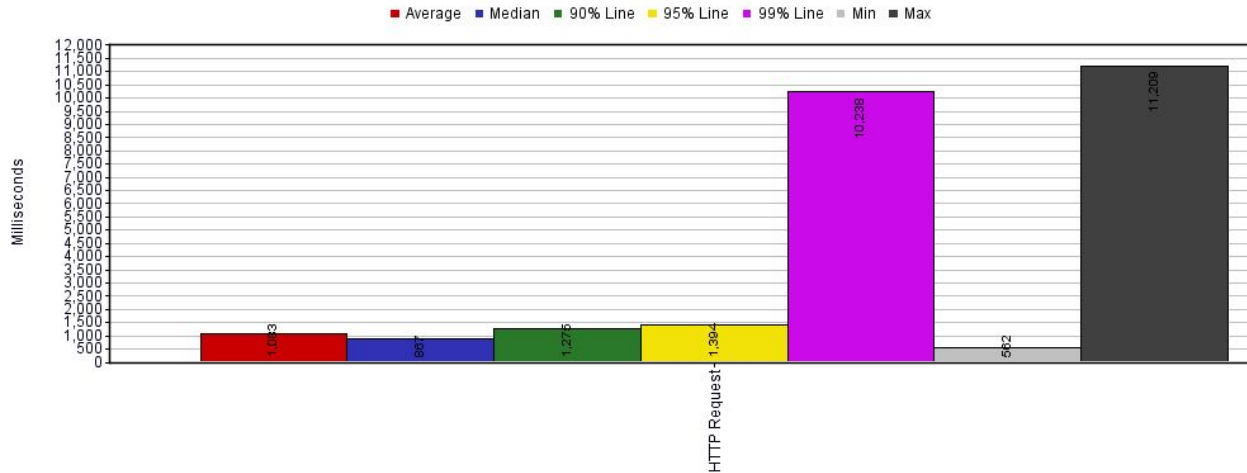
httpstestcurl.pdf [Show all downloads...](#)



Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput
HTTP Request	3956	1083	867	1275	1394	10238	562	11209	1.26%	43.7/sec
TOTAL	3956	1083	867	1275	1394	10238	562	11209	1.26%	43.7/sec

Settings Graph

Shopping page front end performance graph with 50 users ran for 90 seconds



Apache JMeter (3.0 r1743807)

File Edit Search Run Options Help

Test Plan
 Front end performance shopping page
 HTTP Request
 Aggregate Graph
 Graph Results
 Response Time Graph
 View Results in Table
 WorkBench

View Results in Table

Name: View Results in Table

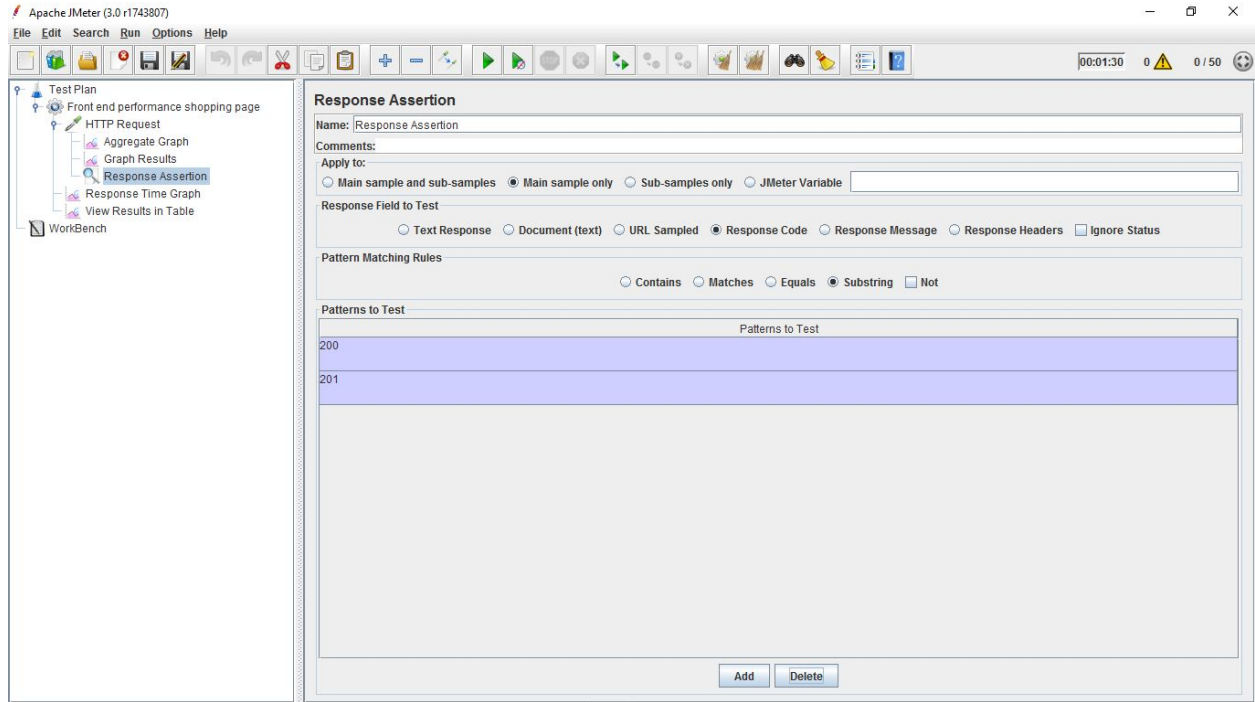
Comments:

Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Latency	Connect Time(ms)
3892	13:04:49.696	Front end perform...	HTTP Request	830	✓	1688	402	0
3893	13:04:49.699	Front end perform...	HTTP Request	833	✓	1688	399	6
3894	13:04:49.870	Front end perform...	HTTP Request	664	✓	1684	235	0
3895	13:04:49.695	Front end perform...	HTTP Request	842	✓	1694	411	0
3896	13:04:49.869	Front end perform...	HTTP Request	669	✓	1694	237	0
3897	13:04:49.881	Front end perform...	HTTP Request	658	✓	1690	225	0
3898	13:04:49.804	Front end perform...	HTTP Request	838	✓	1690	295	0
3899	13:04:50.102	Front end perform...	HTTP Request	642	✓	1686	215	0
3900	13:04:49.923	Front end perform...	HTTP Request	825	✓	1686	393	4
3901	13:04:49.929	Front end perform...	HTTP Request	819	✓	1686	389	3
3902	13:04:50.287	Front end perform...	HTTP Request	700	✓	1690	281	0
3903	13:04:50.289	Front end perform...	HTTP Request	700	✓	1692	281	0
3904	13:04:50.323	Front end perform...	HTTP Request	667	✓	1690	249	0
3905	13:04:50.238	Front end perform...	HTTP Request	754	✓	1686	335	3
3906	13:04:50.235	Front end perform...	HTTP Request	760	✓	1696	343	3
3907	13:04:50.519	Front end perform...	HTTP Request	1024	✗	3495	379	0
3908	13:04:50.161	Front end perform...	HTTP Request	1382	✗	3495	406	7
3909	13:04:40.958	Front end perform...	HTTP Request	10589	✗	3493	204	0
3910	13:04:50.989	Front end perform...	HTTP Request	563	✗	3497	207	0
3911	13:04:50.995	Front end perform...	HTTP Request	562	✗	4075	408	0
3912	13:04:40.546	Front end perform...	HTTP Request	11013	✗	3941	318	0
3913	13:04:50.141	Front end perform...	HTTP Request	1422	✗	3495	211	5
3914	13:04:50.480	Front end perform...	HTTP Request	1085	✗	3497	210	3
3915	13:04:50.323	Front end perform...	HTTP Request	1244	✗	3493	254	0
3916	13:04:50.161	Front end perform...	HTTP Request	1411	✗	3493	404	8
3917	13:04:50.156	Front end perform...	HTTP Request	1423	✗	3497	412	12
3918	13:04:50.169	Front end perform...	HTTP Request	1413	✗	3497	398	3
3919	13:04:49.896	Front end perform...	HTTP Request	1686	✗	3941	420	0
3920	13:04:49.899	Front end perform...	HTTP Request	1687	✗	3945	417	0

☒ Scroll automatically? ☐ Child samples? No of Samples: 2056 Latest Sample 1760 Average 1083 Deviation 1098

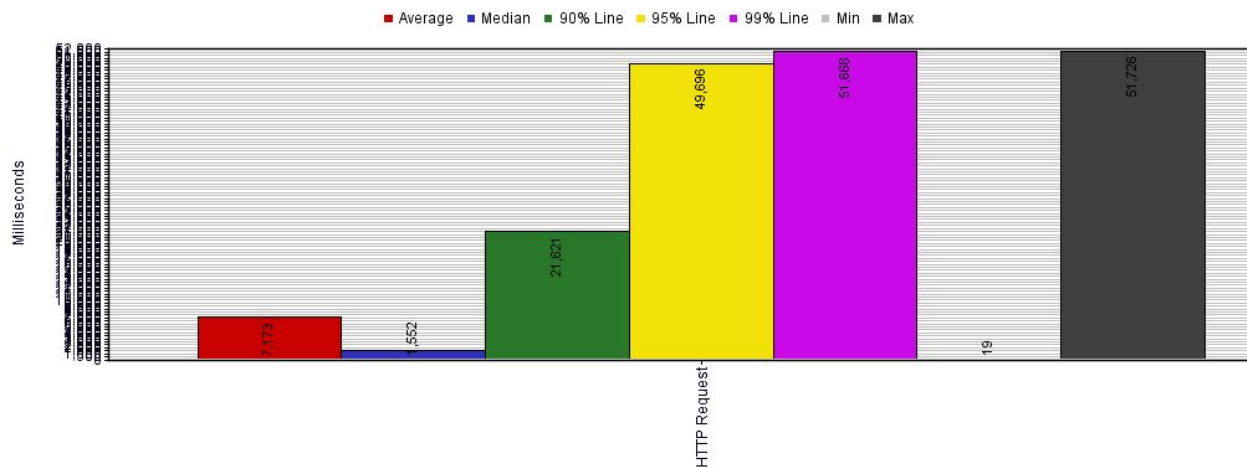


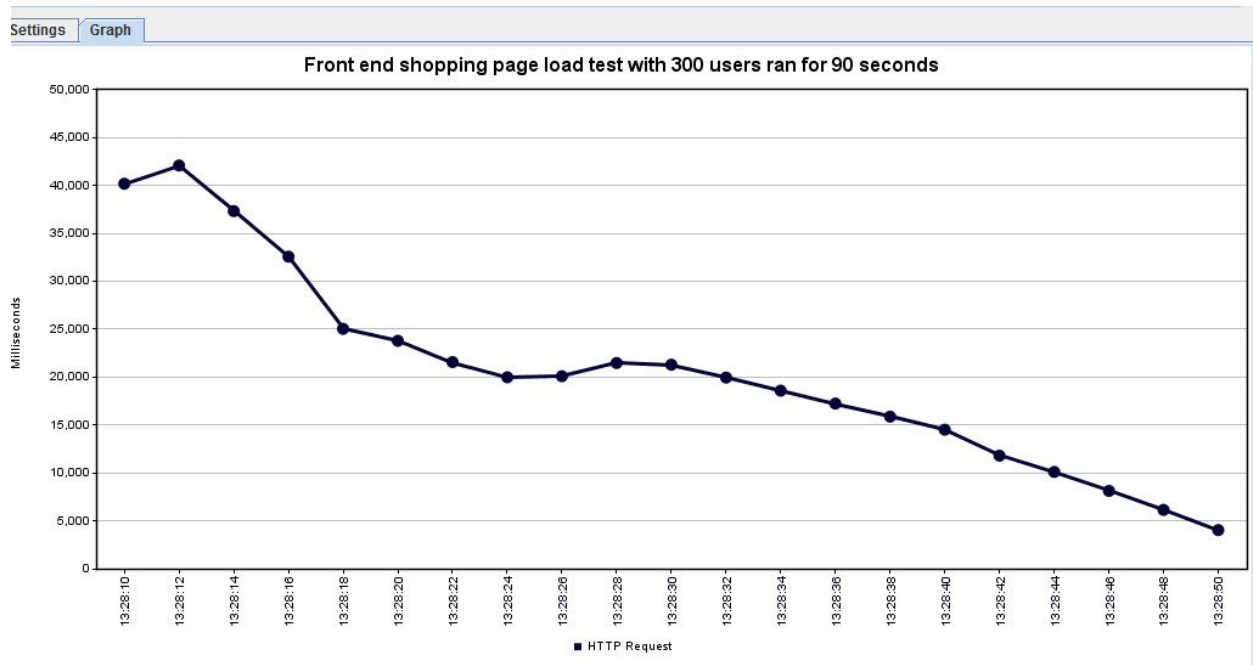
With 300 users load test front end shopping page ran for 90 seconds

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB/
HTTP Request	3706	7173	1552	21621	49696	51668	19	51726	22.34%	24.5/sec	
TOTAL	3706	7173	1552	21621	49696	51668	19	51726	22.34%	24.5/sec	

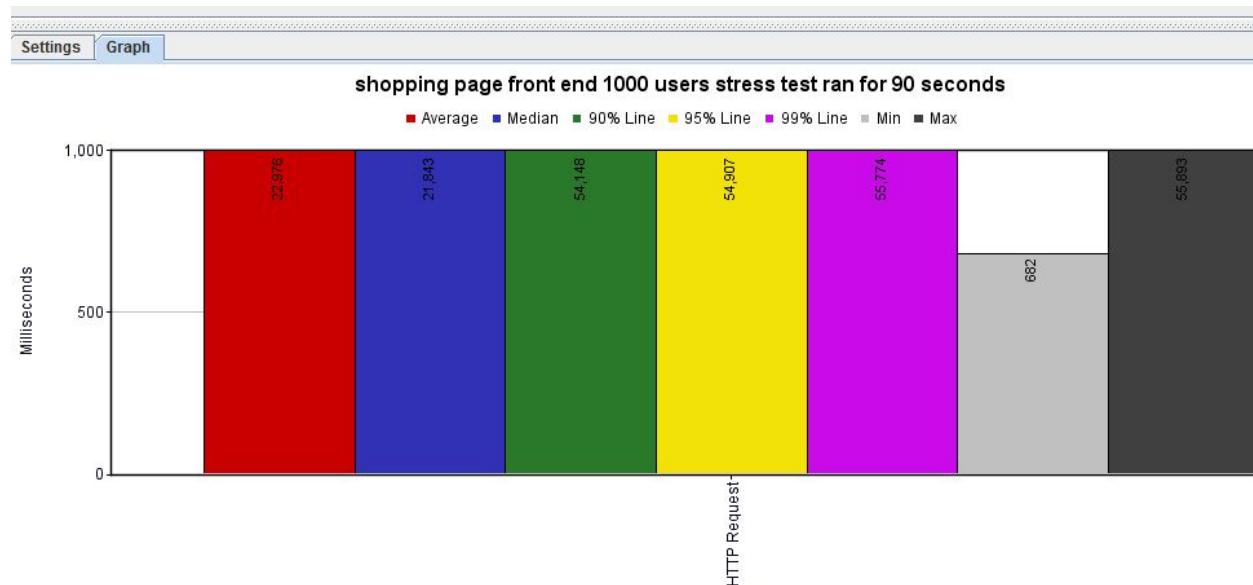
Settings Graph

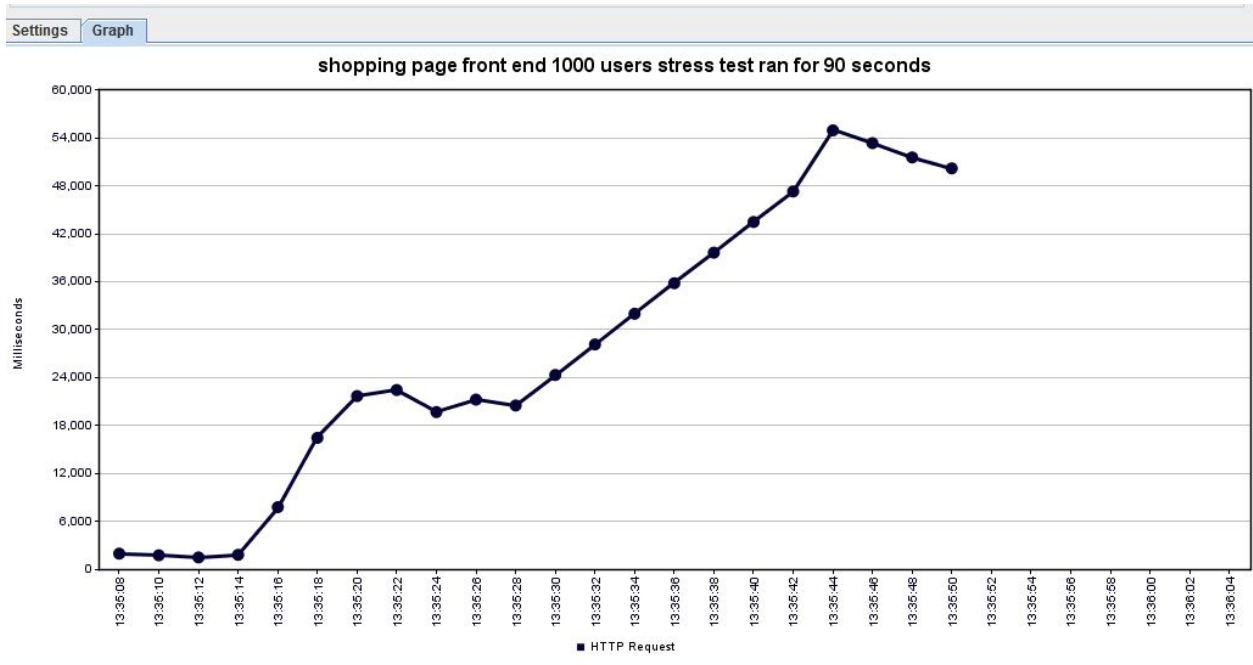
Front end shopping page load test with 300 users ran for 90 seconds





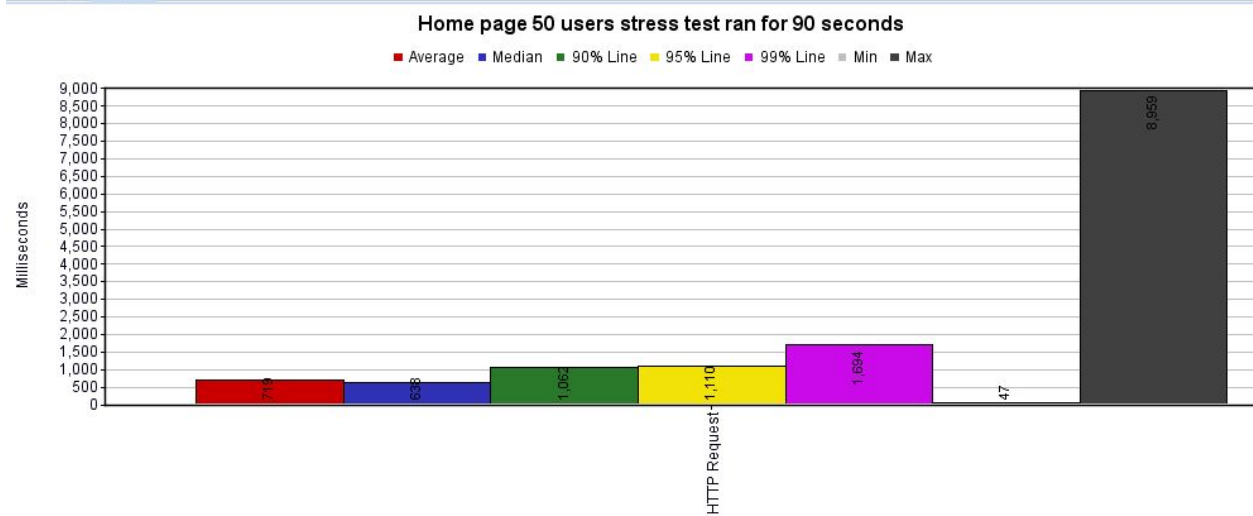
With 1000 users stress test for shopping page





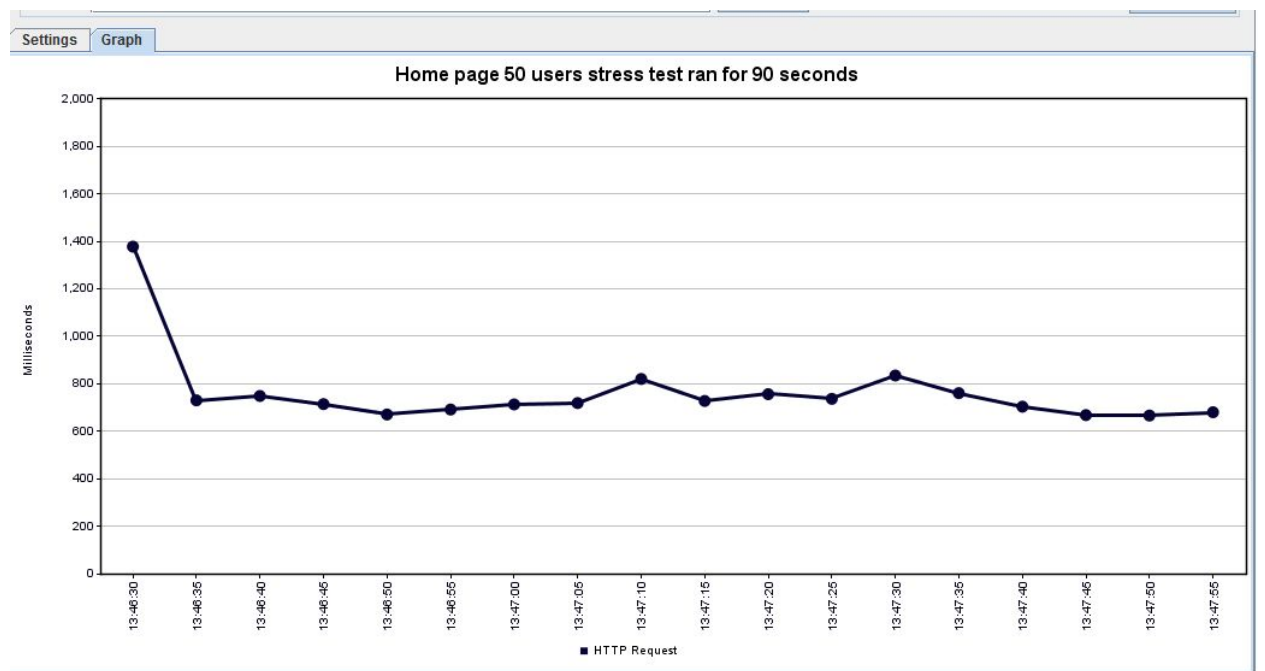
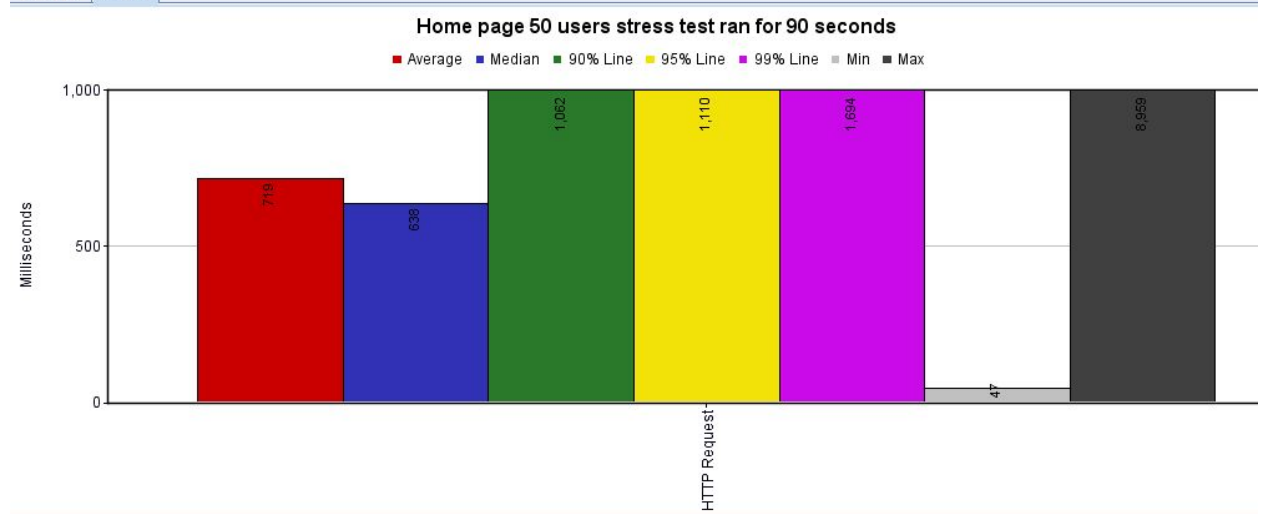
Performance test home page with 50 users ran for 90 seconds

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	k
HTTP Request	5638	719	638	1062	1110	1694	47	8959	0.89%	62.0/sec	k
TOTAL	5638	719	638	1062	1110	1694	47	8959	0.89%	62.0/sec	



Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	KB
HTTP Request	5638	719	638	1062	1110	1694	47	8959	0.89%	62.0/sec	
TOTAL	5638	719	638	1062	1110	1694	47	8959	0.89%	62.0/sec	

Settings
Graph

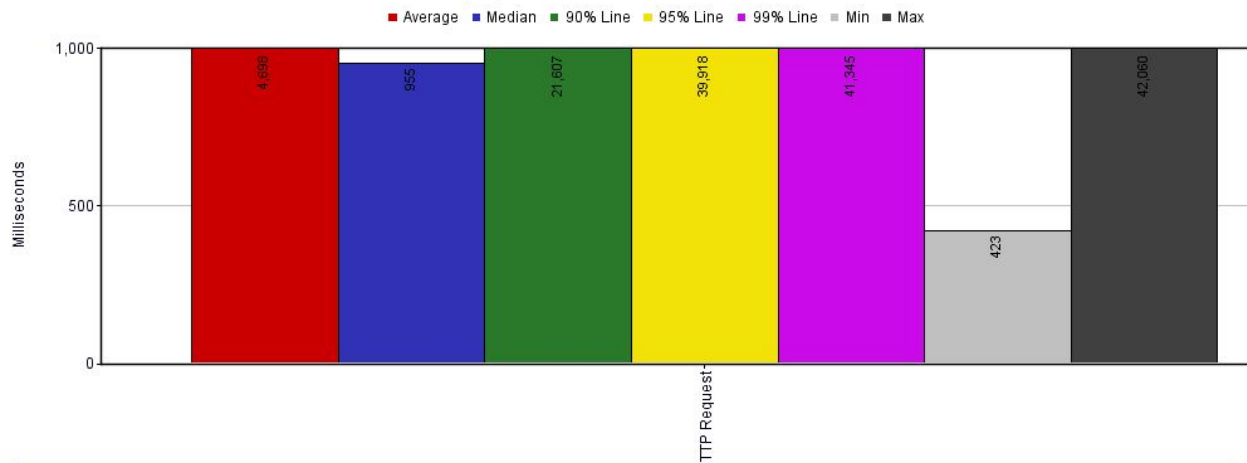


With 300 user home page load test ran for 90 seconds

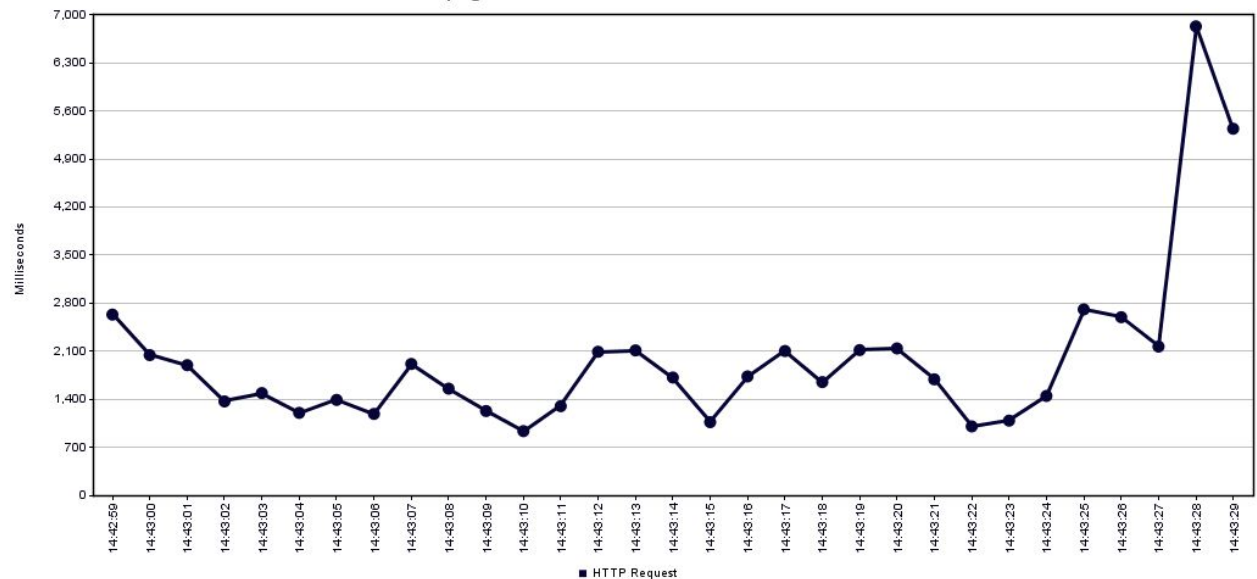
Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput	K
HTTP Request	4818	4698	955	21607	39918	41345	423	42060	12.52%	53.3/sec	
TOTAL	4818	4698	955	21607	39918	41345	423	42060	12.52%	53.3/sec	

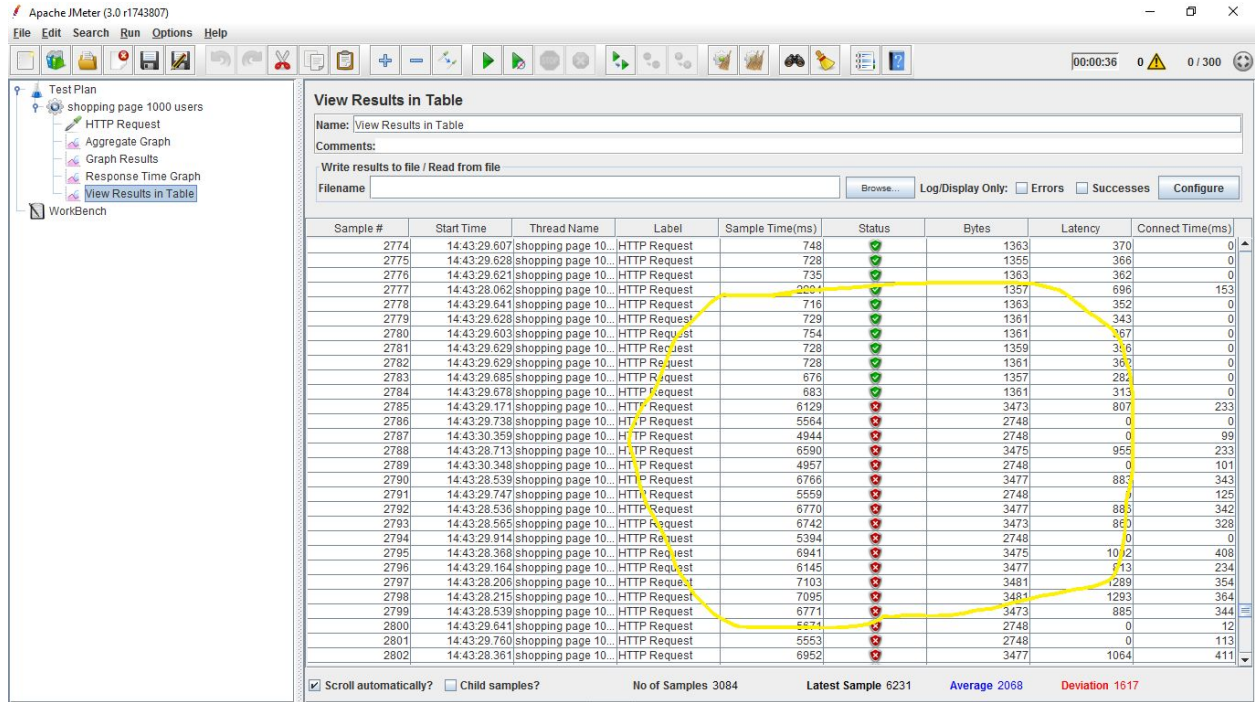
Settings Graph

Home page 300 users stress test ran for 90 seconds

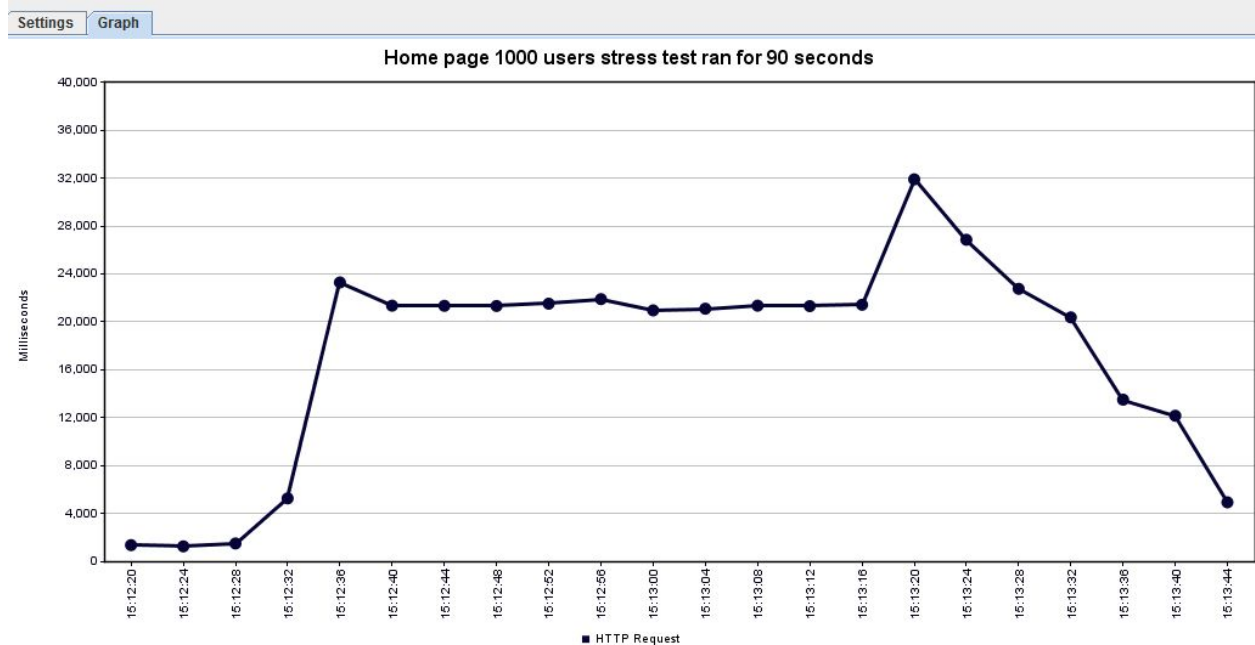


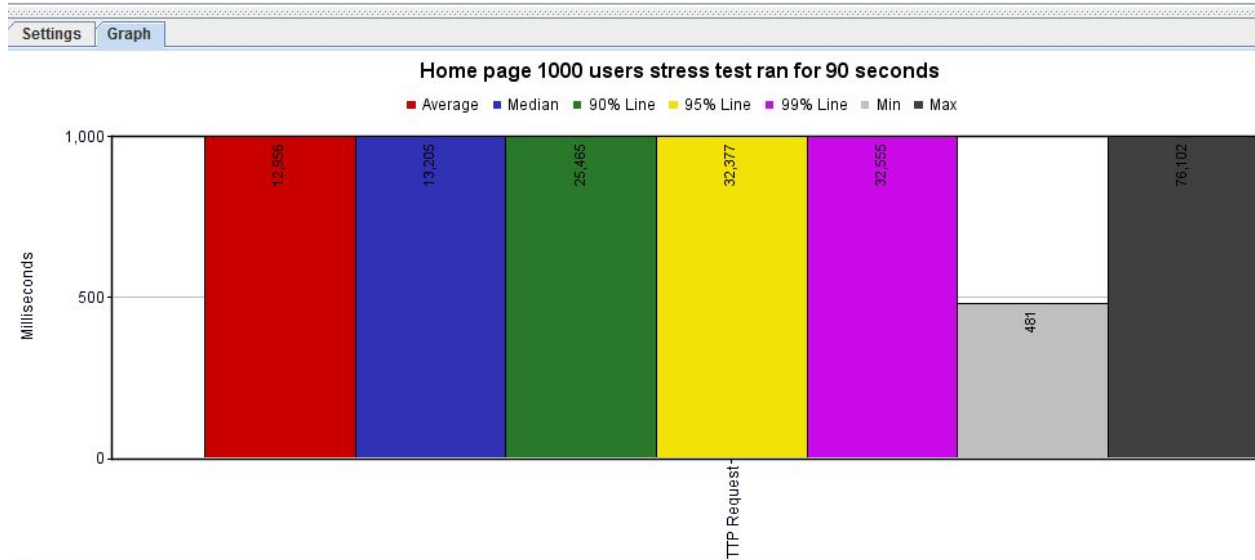
Home page 300 users stress test ran for 90 seconds





For 1000 users homepage stress test





Apache JMeter (3.0 r1743807)

File Edit Search Run Options Help

Test Plan
shopping page 1000 users
HTTP Request
Aggregate Graph
Graph Results
Response Time Graph
View Results in Table
WorkBench

View Results in Table

Name: View Results in Table

Comments:

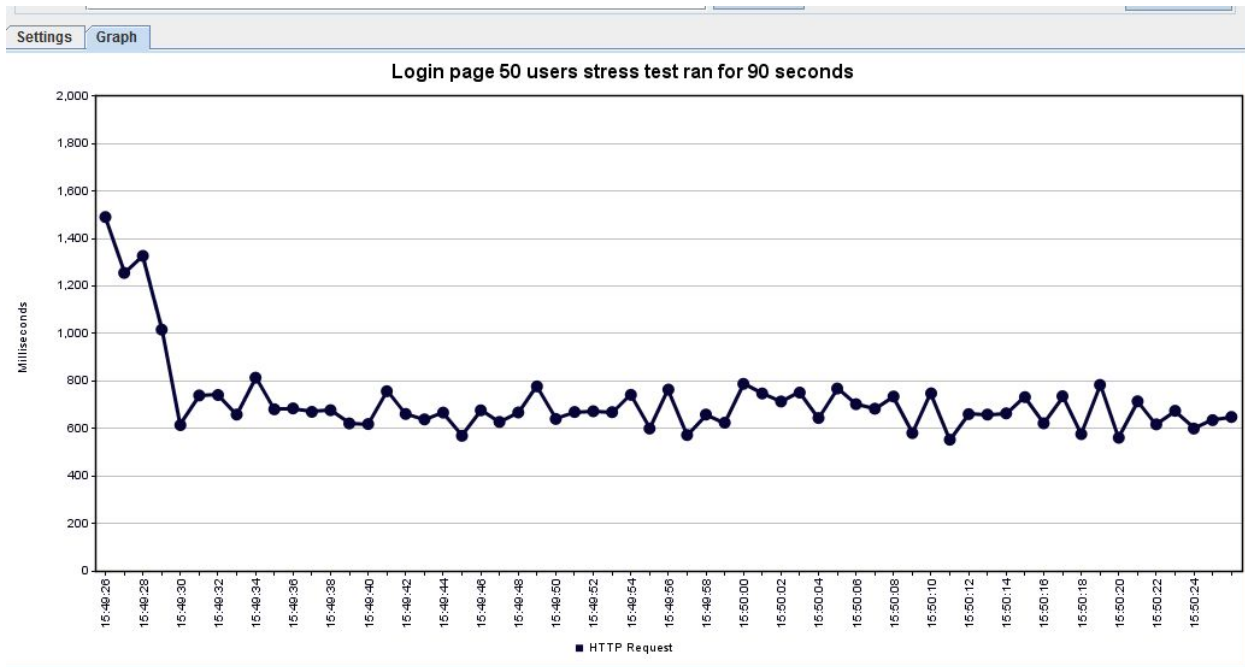
Write results to file / Read from file

Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Latency	Connect Time(ms)
2813	15:12:36.973	shopping page 10...	HTTP Request	914	✓	1363	672	101
2814	15:12:36.994	shopping page 10...	HTTP Request	937	✓	1363	694	0
2815	15:12:36.132	shopping page 10...	HTTP Request	1862	✓	1361	1183	91
2816	15:12:36.111	shopping page 10...	HTTP Request	1885	✓	1359	1205	73
2817	15:12:37.996	shopping page 10...	HTTP Request	581	✓	1361	370	0
2818	15:12:37.994	shopping page 10...	HTTP Request	620	✓	1363	390	0
2819	15:12:37.724	shopping page 10...	HTTP Request	1040	✓	1359	413	0
2820	15:12:38.577	shopping page 10...	HTTP Request	481	✓	1361	242	4
2821	15:12:38.615	shopping page 10...	HTTP Request	655	✓	1357	434	5
2822	15:12:38.773	shopping page 10...	HTTP Request	503	✓	1357	272	0
2823	15:12:39.058	shopping page 10...	HTTP Request	785	✓	1357	212	0
2824	15:12:39.276	shopping page 10...	HTTP Request	775	✓	1359	563	2
2825	15:12:34.213	shopping page 10...	HTTP Request	22003	✗	3465	998	85
2826	15:12:34.215	shopping page 10...	HTTP Request	22009	✗	3469	1006	109
2827	15:12:34.435	shopping page 10...	HTTP Request	21789	✗	3469	788	209
2828	15:12:34.184	shopping page 10...	HTTP Request	22042	✗	3465	1041	95
2829	15:12:34.211	shopping page 10...	HTTP Request	22015	✗	3467	1015	86
2830	15:12:34.303	shopping page 10...	HTTP Request	21925	✗	3467	920	260
2831	15:12:34.464	shopping page 10...	HTTP Request	21764	✗	3469	762	186
2832	15:12:34.234	shopping page 10...	HTTP Request	21994	✗	3471	989	178
2833	15:12:34.212	shopping page 10...	HTTP Request	22018	✗	3465	1013	86
2834	15:12:34.195	shopping page 10...	HTTP Request	22035	✗	3467	1030	92
2835	15:12:34.306	shopping page 10...	HTTP Request	21924	✗	3469	918	261
2836	15:12:34.409	shopping page 10...	HTTP Request	21622	✗	3465	816	0
2837	15:12:34.325	shopping page 10...	HTTP Request	21909	✗	3469	908	245
2838	15:12:34.205	shopping page 10...	HTTP Request	22035	✗	3467	1018	85
2839	15:12:34.195	shopping page 10...	HTTP Request	22045	✗	3467	1029	87
2840	15:12:34.464	shopping page 10...	HTTP Request	21776	✗	3467	762	186
2841	15:12:34.867	shopping page 10...	HTTP Request	21784	✗	3467	782	107

☒ Scroll automatically? ☐ Child samples? No of Samples 5998 Latest Sample 32554 Average 12956 Deviation 11839

For 50 users front end load test Login page ran for 90 seconds



Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Max	Error %	Throughput
HTTP Request	3457	665	592	1035	1071	1294	113	1950	1.45%	56.9/sec
TOTAL	3457	665	592	1035	1071	1294	113	1950	1.45%	56.9/sec

