GG Portal | Peak Load Test Report

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General Details

Run Name	res504.lrr
Period	06-09-2018 13:54:42 - 06-09-2018 18:01:31
Run Duration	4 hours and 6 minutes and 49 seconds

Workload Characteristics

Measurement	res504.lrr
Max Running Vusers	20
Average Hits per Second	5.28
Total Hits	78253
Total Passed Transactions per Second	1.96

Performance Overview

Measurement	Value
Total Passed Transactions	29093
Total Failed Transactions	0
Transactions Success Rate, %	100
Total Errors	0

HTTP Responses Summary

Filter Scenario Elapsed Time= (from: 00:00:00 to: 04:06:50)

HTTP Response Name	Total	Per Second
HTTP_200	67390	4.55
HTTP_404	10863	0.73

Transaction Summary

Transaction Name	SLAStatus	Minimum	Average	Maximum	Std. Deviation	95%	98%	Pass Count	Fail Count
Headers_01_Homepage	✅	0.11	0.15	3.16	0.16	0.2	0.36	3621	0
Headers_02_Login	✅	0.07	0.12	3.17	0.15	0.15	0.3	3621	0
Headers_03_apis	✅	0.4	0.5	3.56	0.19	0.65	0.77	720	0
Headers_03_dcss	✅	0.34	0.43	3.41	0.14	0.55	0.67	720	0
Headers_03_messages	✅	0.11	0.17	5.3	0.21	0.24	0.39	730	0
Headers_03_pnrs	✅	0.31	0.4	1.56	0.1	0.47	0.63	721	0
Headers_03_services	✅	0.12	0.19	3.21	0.13	0.25	0.39	730	0
Headers_04_Logout	✅	0.02	0.05	3.07	0.08	0.07	0.08	3621	0
ViewDetail_01_Homepage	✅	0.01	0.02	3.03	0.07	0.03	0.03	2087	0
ViewDetail_02_Login	✅	0.04	0.08	3.1	0.1	0.12	0.15	2087	0
ViewDetail_03_services	✅	0.12	0.19	1.25	0.06	0.28	0.42	2087	0
ViewDetail_05_SelectServiceRecord	✅	0.04	0.07	4.01	0.1	0.1	0.12	2087	0
ViewDetail_06_SelectMessage	✅	0.04	0.07	5.23	0.14	0.1	0.12	2087	0

Transaction Name	SLAStatus	Minimum	Average	Maximum	Std. Deviation	95%	98%	Pass Count	Fail Count
ViewDetail_07_ViewRawMessage	✅	0.03	0.06	3.09	0.1	0.08	0.1	2087	0
ViewDetail_08_Logout	✅	0.02	0.05	1.03	0.04	0.07	0.08	2087	0

Worst URLs (by average response time)

URL name	Parent transaction name	Layers breakdown of the URL	Count	Total	Min	Max	Avg	StdDev
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_apis		72	0.41	0.42	1.09	0.5	0.11
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_dcss		72	0.4	0.34	1.44	0.44	0.15
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_pnrs		72	0.38	0.32	1.4	0.43	0.18
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_services		73	0.18	0.13	3.21	0.22	0.36
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_messages		73	0.11	0.11	0.58	0.16	0.08

0.08   0.25   0.41   seconds
0.16   0.33

- ■ DNS Resolution
- ■ Connection
- ■ SSL Handshaking
- ■ FTP Authentication
- ■ First Buffer
- ■ Receive
- ■ Client
- ■ Error

Largest URLs by Average KBytes

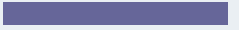| URL name	Parent transaction name	Average size	Count	Total	Min	Max	Avg	StdDev
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_apis		72	62996.64	874.93	875	874.95	0.28
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_messages		73	43329.32	593.53	593.58	593.55	0.23
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_pnrs		72	35458.34	492.46	492.5	492.48	0.23
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_dcss		72	34185.64	474.79	474.82	474.8	0.17

Largest URLs by Average KBytes

URL name	Parent transaction name	Average size	Count	Total	Min	Max	Avg	StdDev
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_services	▅	73	33114.39	453.6	453.65	453.62	0.17

174.99	524.97	874.95	KBytes
349.98	699.96		

■ Average size

Most Resource Consuming URLs

URL name	Parent transaction name	Total server time	Count	Total	Min	Max	Avg	StdDev
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	ViewDetail_03_services	▅▅▅▅	209	18.71	0.05	0.3	0.09	0.04
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_dcss	▅▅▅	72	12.73	0.12	1.15	0.18	0.12
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_pnrs	▅▅▅	72	11.84	0.11	0.65	0.16	0.06
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_apis	▅▅	72	8.37	0.07	0.41	0.12	0.06
https://57.191.5.137/api/services?startDate=2018-09-04T00:00&endDate=2018-09-05T23:59	Headers_03_services	▅▅	73	7.72	0.06	0.41	0.11	0.05

3.74	11.23	18.71	seconds
7.48	14.97		

■ Total Server Time

Running Vusers

Running Vusers

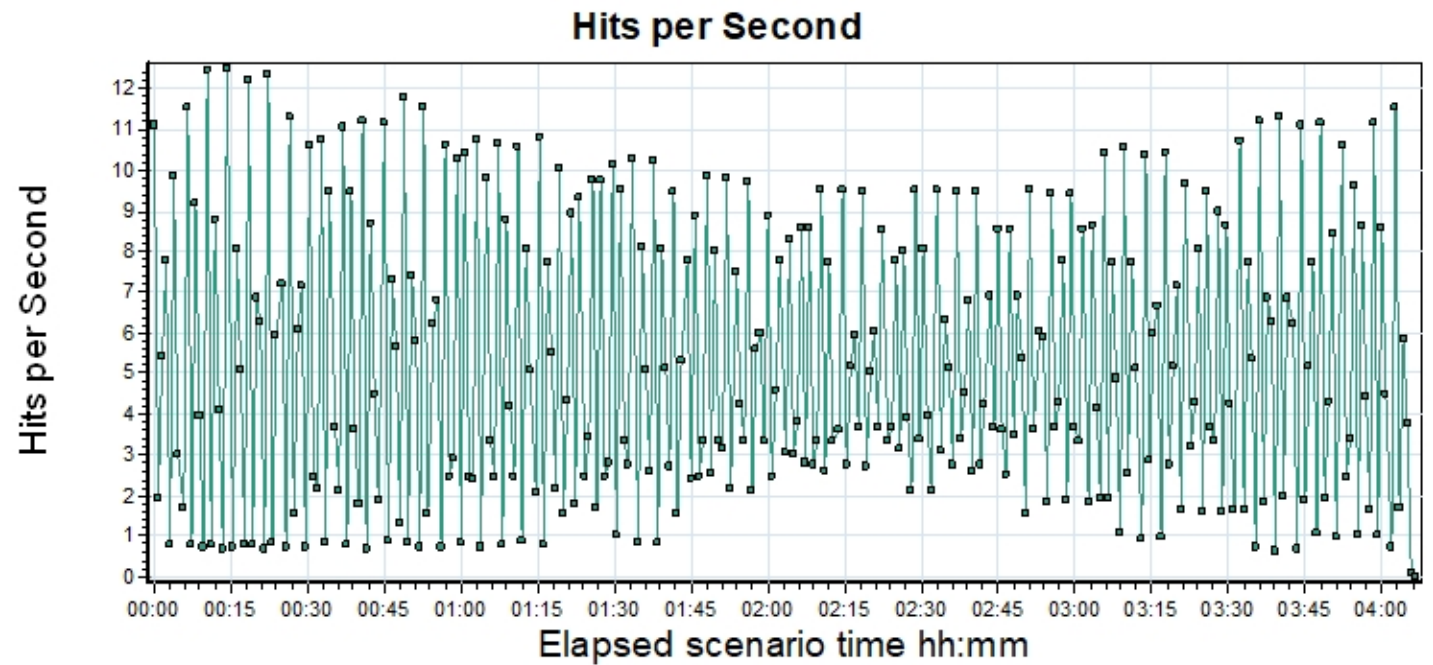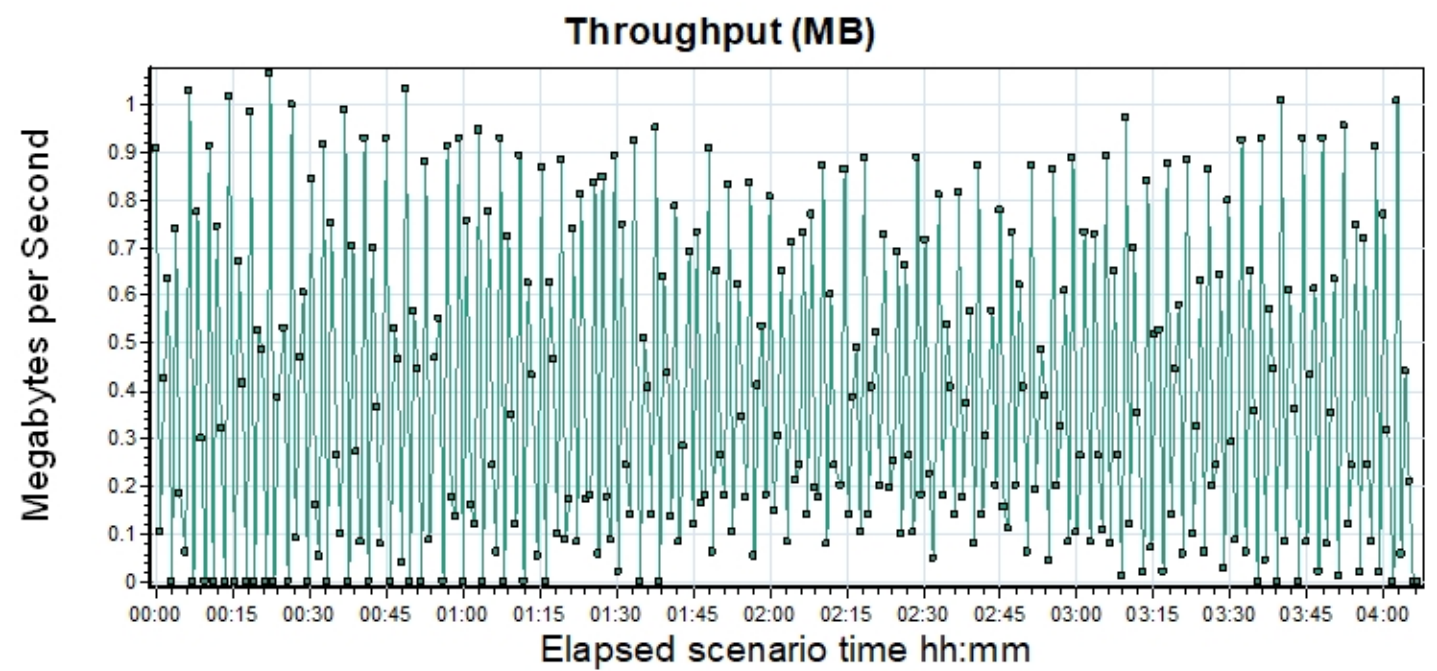| Minimum	Average	Maximum
0	7	20
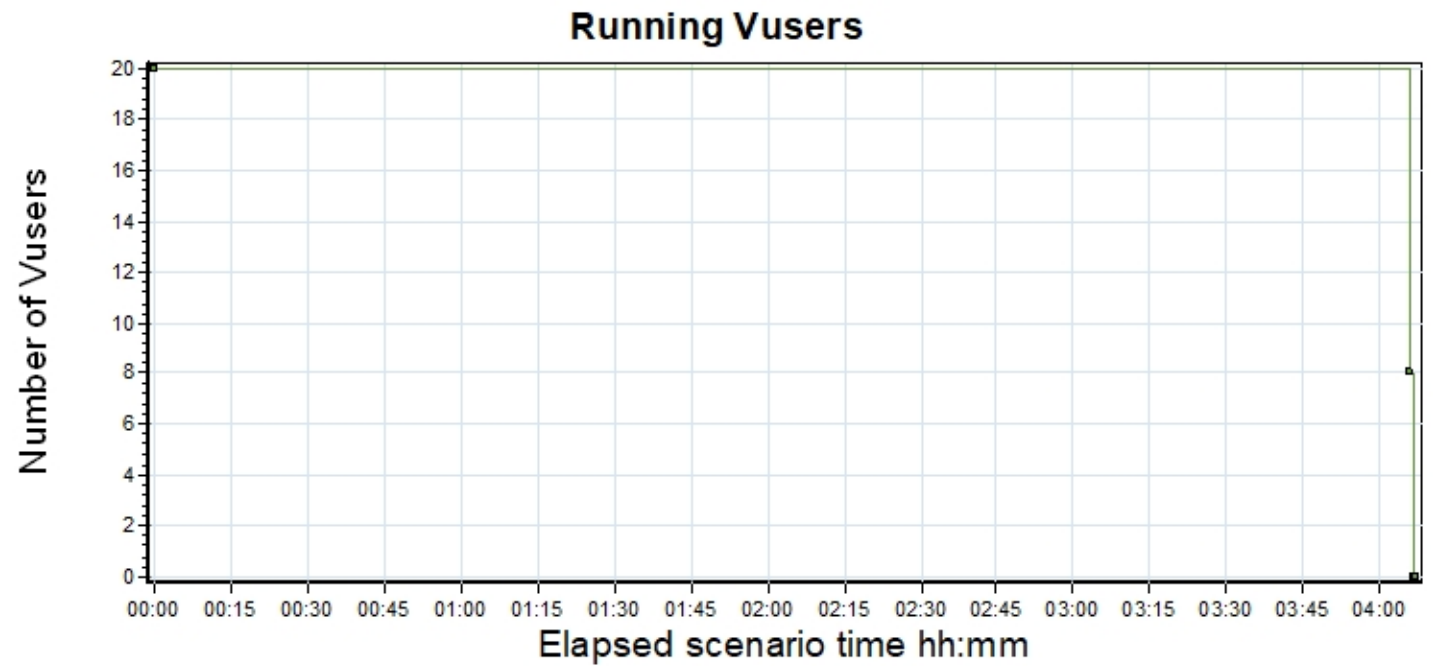
Description: Displays the number of Vusers that executed Vuser scripts, and their status, during each second of a load test. This graph is useful for determining the Vuser load on your server at any given moment.

Hits per Second

Hits per Second

Minimum	Average	Maximum
0	5.28	12.5

Description: Displays the number of hits made on the Web server by Vusers during each second of the load test. This graph helps you evaluate the amount of load Vusers generate, in terms of the number of hits.

Throughput (MB)

Throughput (MB)

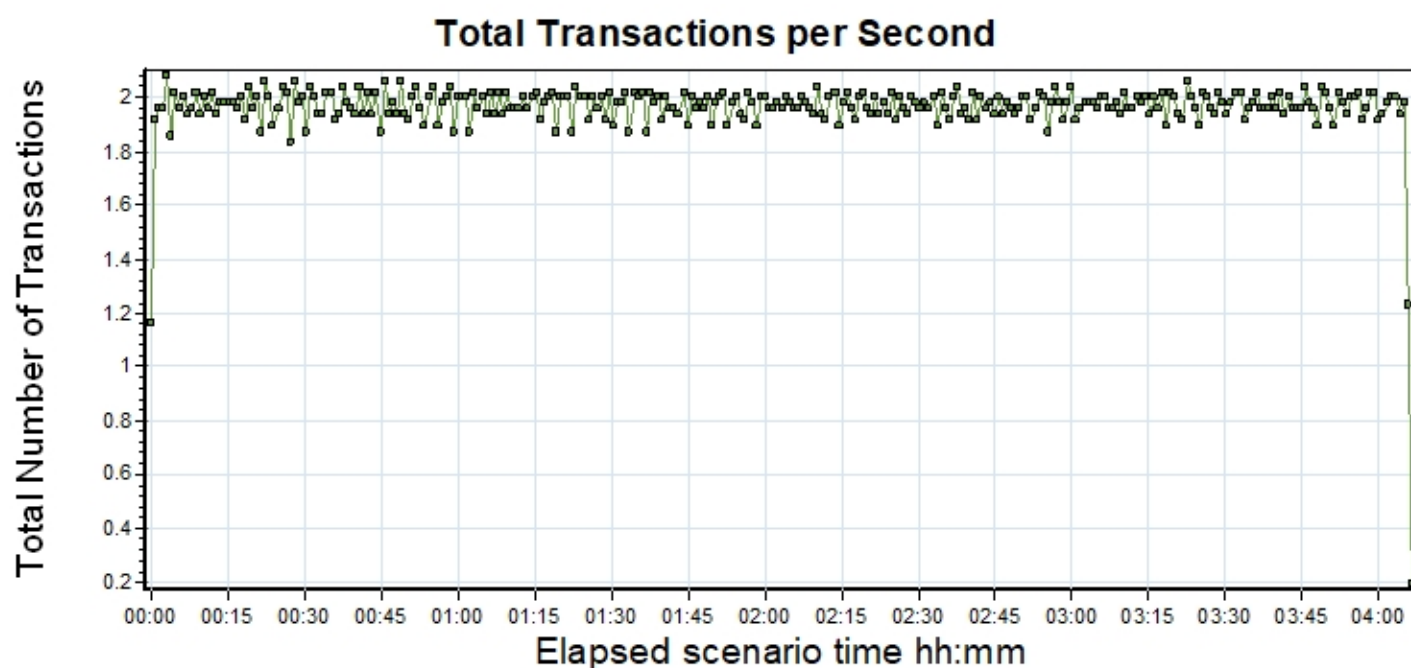| Minimum	Average	Maximum
0	0.4	1.07

Description: Displays the amount of throughput (in megabytes) on the Web server during the load test. Throughput represents the amount of data that the Vusers received from the server at any given second. This graph helps you to evaluate the amount of load Vusers generate, in terms of server throughput.

Average Transaction Response Time

Average Transaction Response Time
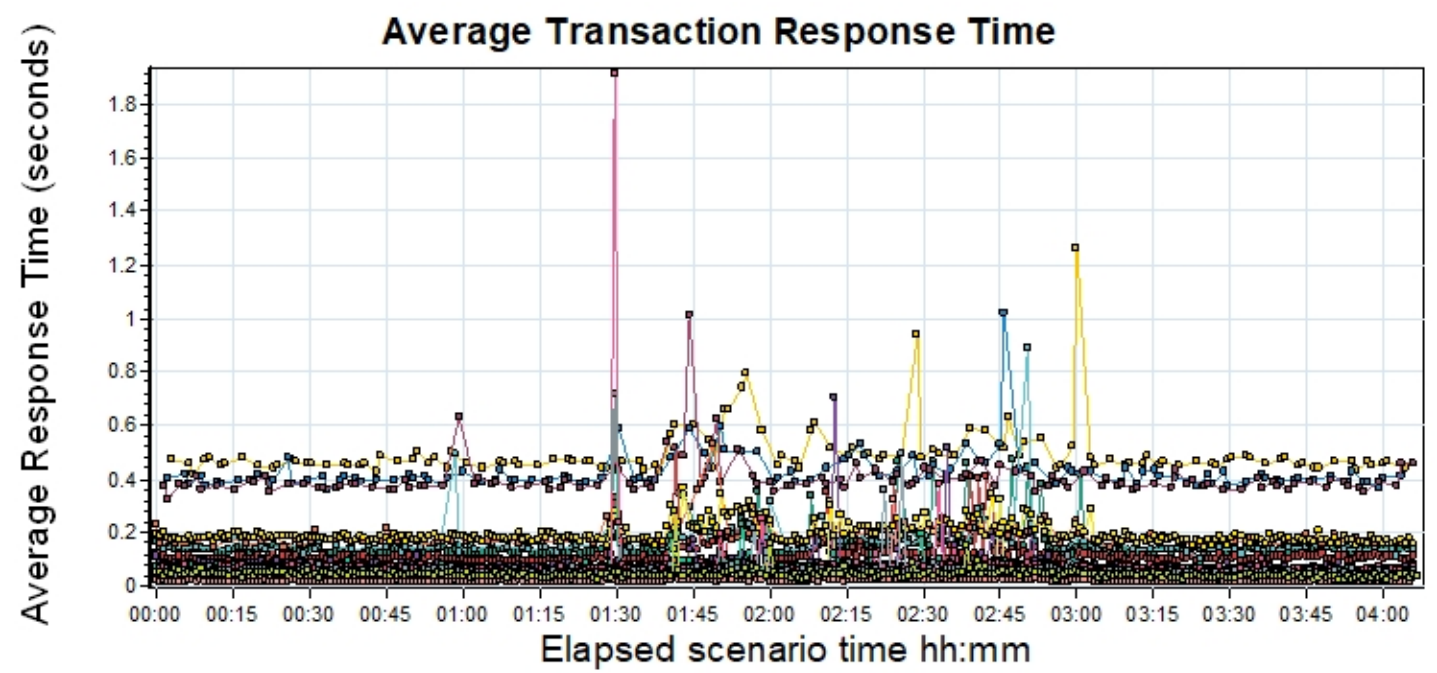
Description: Displays the average time taken to perform transactions during each second of the load test. This graph helps you determine whether the performance of the server is within acceptable minimum and maximum transaction performance time ranges defined for your system.

Total Transactions per Second

Total Transactions per Second

(Y-axis: Total Number of Transactions; X-axis: Elapsed scenario time hh:mm)

Measurement	Minimum	Average	Maximum
Pass	0.19	1.96	2.08

Description: Displays the total number of completed transactions (both successful and unsuccessful) performed during each second of a load test. This graph helps you determine the actual transaction load on your system at any given moment.

Terminology

LoadRunner Objects

Term	Definition
Vuser Scripts	A Vuser script describes the actions that a Vuser performs during the scenario. Each Vuser executes a Vuser script during a scenario run. The Vuser scripts include functions that measure and record the performance of your application components.
Load Test	Tests a system's ability to handle a heavy workload. A load test simulates multiple transactions or users interacting with the computer at the same time and provides reports on response times and system behavior.
Run-Time Settings	Run-Time settings allow you to customize the way a Vuser script is executed. You configure the run-time settings from the Controller or VuGen before running a scenario. You can view information about the Vuser groups and scripts that were run in each scenario, as well as the run-time settings for each script in a scenario, in the Scenario Run-Time Settings dialog box.
Scenario	A scenario defines the events that occur during each testing session. For example, a scenario defines and controls the number of users to emulate, the actions that they perform, and the machines on which they run their emulations.
Scheduler	The Schedule Builder allows you to set the time that the scenario will start running, the duration time of the scenario or of the Vuser groups within the scenario, and to gradually run and stop the Vusers within the scenario or within a Vuser group. It also allows you to set the load behavior of Vusers in a scenario.
Session	When you work with the Analysis utility, you work within a session. An Analysis session contains at least one set of scenario results (lrr file). The Analysis utility processes the scenario result information and generates graphs and reports. The Analysis stores the display information and layout settings for the active graphs in a file with an .lra extension. Each session has a session name, result file name, database name, directory path, and type.
Transactions	A transaction represents an action or a set of actions used to measure the performance of the server. You define transactions within your Vuser script by enclosing the appropriate sections of the script with start and end transaction statement.
Vusers	Vusers or virtual users are used by LoadRunner as a replacement for human users. When you run a scenario, Vusers emulate the actions of human users working with your application. A scenario can contain tens, hundreds, or even thousands of Vusers running concurrently on a single workstation.

Graph Information

Term	Definition
Average	Average value of the graph measurement's.

Hits	The number of HTTP requests made by Vusers to the Web server.
Maximum	Maximum value of the graph measurement's.
Measurement	This is the type of resource being monitored
Median	Middle value of the graph measurement's.
Minimum	Minimum value of the graph measurement's.
Network Delay	The time it takes for a packet of data sent across the network to go to the requested node and return.
Network Path	The Network Path is the route data travels between the source machine and the destination machine.
Response time	The time taken to perform a transaction.
Scale (or granularity)	In order to display all the measurements on a single graph, thus making the graphs easier to read and analyze, you can change the scale or (granularity) of the x-axis. You can either set measurement scales manually, view measurement trends for all measurements in the graph, or let Analysis scale them automatically. The Legend tab indicates the scale factor for each resource.
Standard Deviation (SD)	The square root of the arithmetic mean value of the squares of the deviations from the arithmetic mean.
Throughput	Throughput is measured in bytes and represents the amount of data that the Vusers received from the server.
Vuser Load	When you run a scenario, the Vusers generate load or stress on the server. LoadRunner monitors the effect of this load on the performance of your application.

Business Process

Script Name	Concurrent Vusers	% of Total Vusers	Transactions per Hour	Pacing	Think Time
Headers_LG_v4_1	10	50	3520.8	As soon as possible	Replay as recorded
ViewDetail_LG_v2_1	10	50	3549.6	As soon as possible	Replay as recorded
Total:	**20**	**100%**			