

web Tours 50 vUser

23/04/2020

| Author Details | |
|----------------|--------------------|
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| Job Title | Performance Tester |
| Organization | Agile 1 Tech |
| | |

General Details

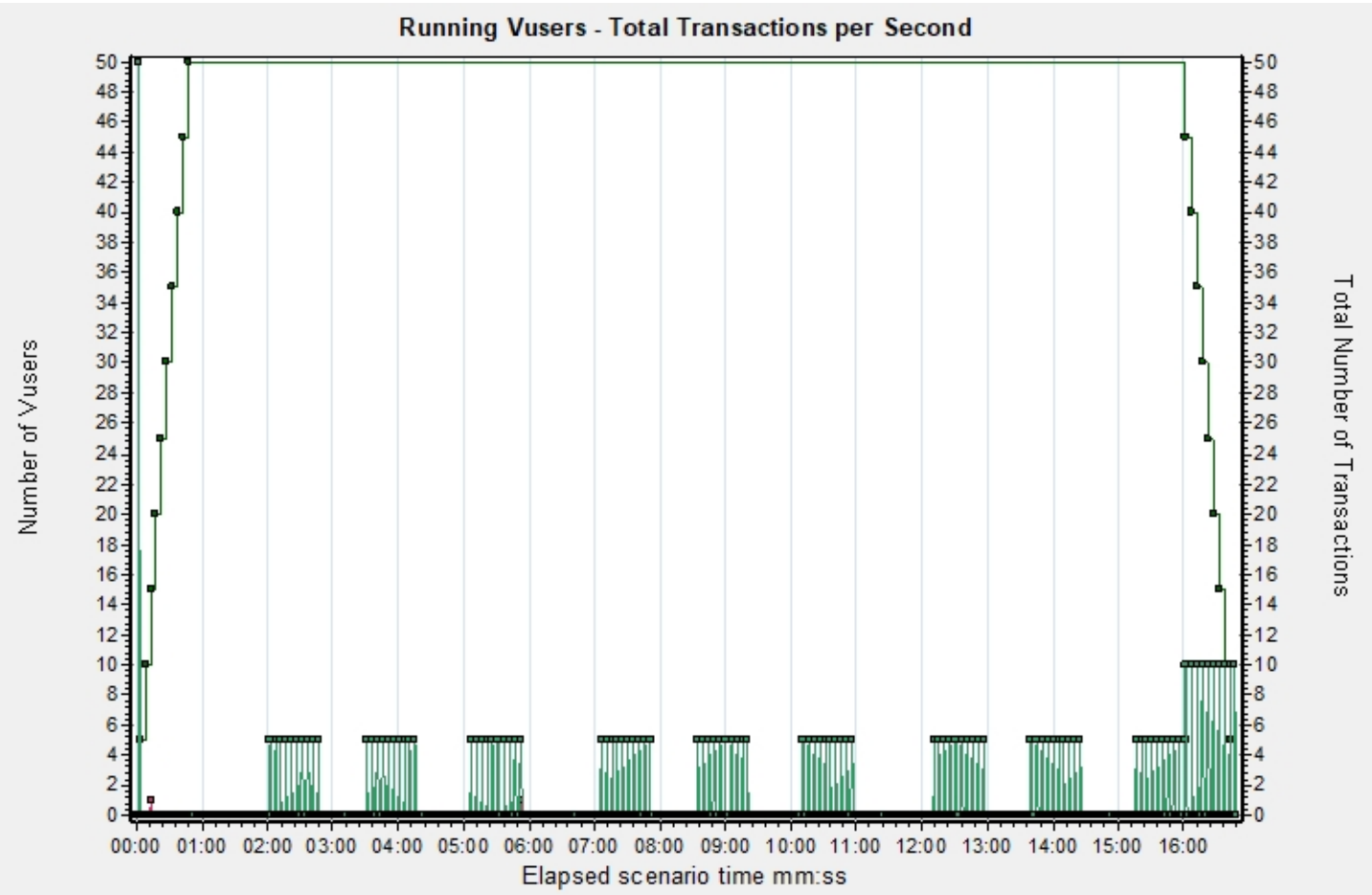
| | |
|-----------------|--|
| Scenario Name | C:\Program Files (x86)\HP\LoadRunner\scenario\50 Vuser.lrs |
| Run Name | res.lrr |
| Run Date | 23/04/2020 14:40:41 |
| Period | 23/04/2020 14:40:41 - 23/04/2020 14:57:28 |
| Run Duration | 16 minutes and 47 seconds |
| PC Project Name | |

Business Process

| Group Name | Script Name | Concurrent Vusers | % of Total Vusers | Transactions per Hour | Start Time | Think Time | Pacing | Browser Cache |
|------------------|------------------|-------------------|-------------------|-----------------------|---------------------|--------------------|---------------------|---------------|
| Customer_Profile | Customer_Profile | 50 | 100 | 2142 | 23/04/2020 14:40:41 | Replay as recorded | As soon as possible | |
| Total: | | 50 | 100% | | | | | |

Workload Characteristics

| Measurement | res.lrr |
|--------------------------------------|---------|
| Max Running Vusers | 50 |
| Average Hits per Second | 2.044 |
| Total Hits | 2062 |
| Total Passed Transactions per Second | 0.595 |
| Total Passed Transactions per Minute | 35.7 |
| Total Transactions Number | 6 |



| Color | Graph | Scale | Measurement | Graph's Minimum | Graph's Average | Graph's Maximum | Graph's Median | Graph's Std. Deviation |
|-------|-------------------------------|-------|-------------|-----------------|-----------------|-----------------|----------------|------------------------|
| | Running Vusers | 1 | Run | 0.000 | 22.727 | 50.000 | 25.000 | 15.647 |
| | Total Transactions per Second | 1 | Fail | 0.000 | 0.002 | 1.000 | 0.000 | 0.044 |
| | Total Transactions per Second | 1 | Pass | 0.000 | 0.595 | 50.000 | 0.000 | 2.312 |

Performance Overview

| Measurement | Value |
|---|--------|
| Weighted Average of Transaction Response Time | 0.155 |
| Total Passed Transactions | 600 |
| Total Failed Transactions | 2 |
| Transactions Success Rate, % | 99.668 |
| Total Errors per Second | 0.002 |
| Total Errors | 2 |

HTTP Responses Summary

| HTTP Response Name | Total | Per Second |
|--------------------|-------|------------|
| HTTP_200 | 2060 | 2.044 |
| HTTP_500 | 2 | 0.002 |

Transaction Summary

Filter Transaction End Status= (Pass)

| Transaction Name | Minimum | Average | Maximum | Std. Deviation | 90% | Pass Count | Fail Count | Stop Count |
|---------------------------|---------|---------|---------|----------------|-------|------------|------------|------------|
| 1_transaction_Sign_Up_Now | 0.094 | 0.147 | 0.167 | 0.009 | 0.156 | 150 | 0 | 0 |
| 2_transaction_Login | 0.053 | 0.076 | 0.168 | 0.018 | 0.091 | 150 | 0 | 0 |
| 5_transactionSign_Off | 0.128 | 0.169 | 0.258 | 0.034 | 0.19 | 50 | 0 | 0 |
| Action_Transaction | 0.234 | 0.366 | 0.458 | 0.023 | 0.383 | 150 | 0 | 0 |
| vuser_end_Transaction | 0.128 | 0.169 | 0.258 | 0.034 | 0.19 | 50 | 0 | 0 |
| vuser_init_Transaction | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 |

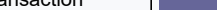
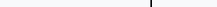

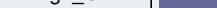
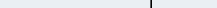
Worst URLs (by average response time)

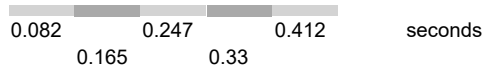
| URL name | Parent transaction name | Layers breakdown of the URL | Count | Total | Min | Max | Avg | StdDev |
|---|---------------------------|---|-------|-------|-------|-------|-------|--------|
| http://127.0.0.1:1080/cgi-bin/welcome.pl?signOff=1 | 5_transactionSign_Off | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | 1 | 0.252 | 0.241 | 0.241 | 0.241 | 0 |
| http://127.0.0.1:1080/WebTours/index.htm | Action_Transaction | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | 3 | 0.159 | 0.137 | 0.161 | 0.148 | 0.01 |
| http://127.0.0.1:1080/cgi-bin/login.pl?username=&password=&getInfo=true | 1_transaction_Sign_Up_Now | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | 3 | 0.082 | 0.074 | 0.081 | 0.079 | 0.003 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 1_transaction_Sign_Up_Now | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | 3 | 0.077 | 0.074 | 0.081 | 0.078 | 0.003 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 2_transaction_Login | <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> | 3 | 0.072 | 0.069 | 0.075 | 0.072 | 0.003 |

0.050.1010.1510.2020.252seconds

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


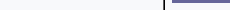
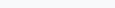
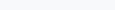

Most Resource Consuming URLs

| URL name | Parent transaction name | Total server time | Count | Total | Min | Max | Avg | StdDev |
|---|---------------------------|---|-------|-------|-------|-------|-------|--------|
| http://127.0.0.1:1080/WebTours/index.htm | Action_Transaction |  | 3 | 0.412 | 0.126 | 0.15 | 0.137 | 0.01 |
| http://127.0.0.1:1080/cgi-bin/welcome.pl?signOff=1 | 5_transactionSign_Off |  | 1 | 0.229 | 0.229 | 0.229 | 0.229 | 0 |
| http://127.0.0.1:1080/cgi-bin/login.pl?username=&password=&getInfo=true | 1_transaction_Sign_Up_Now |  | 3 | 0.221 | 0.069 | 0.078 | 0.074 | 0.004 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 1_transaction_Sign_Up_Now |  | 3 | 0.218 | 0.069 | 0.076 | 0.073 | 0.003 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 2_transaction_Login |  | 3 | 0.199 | 0.063 | 0.07 | 0.066 | 0.003 |



■ Total Server Time

Largest URLs by Average KBytes

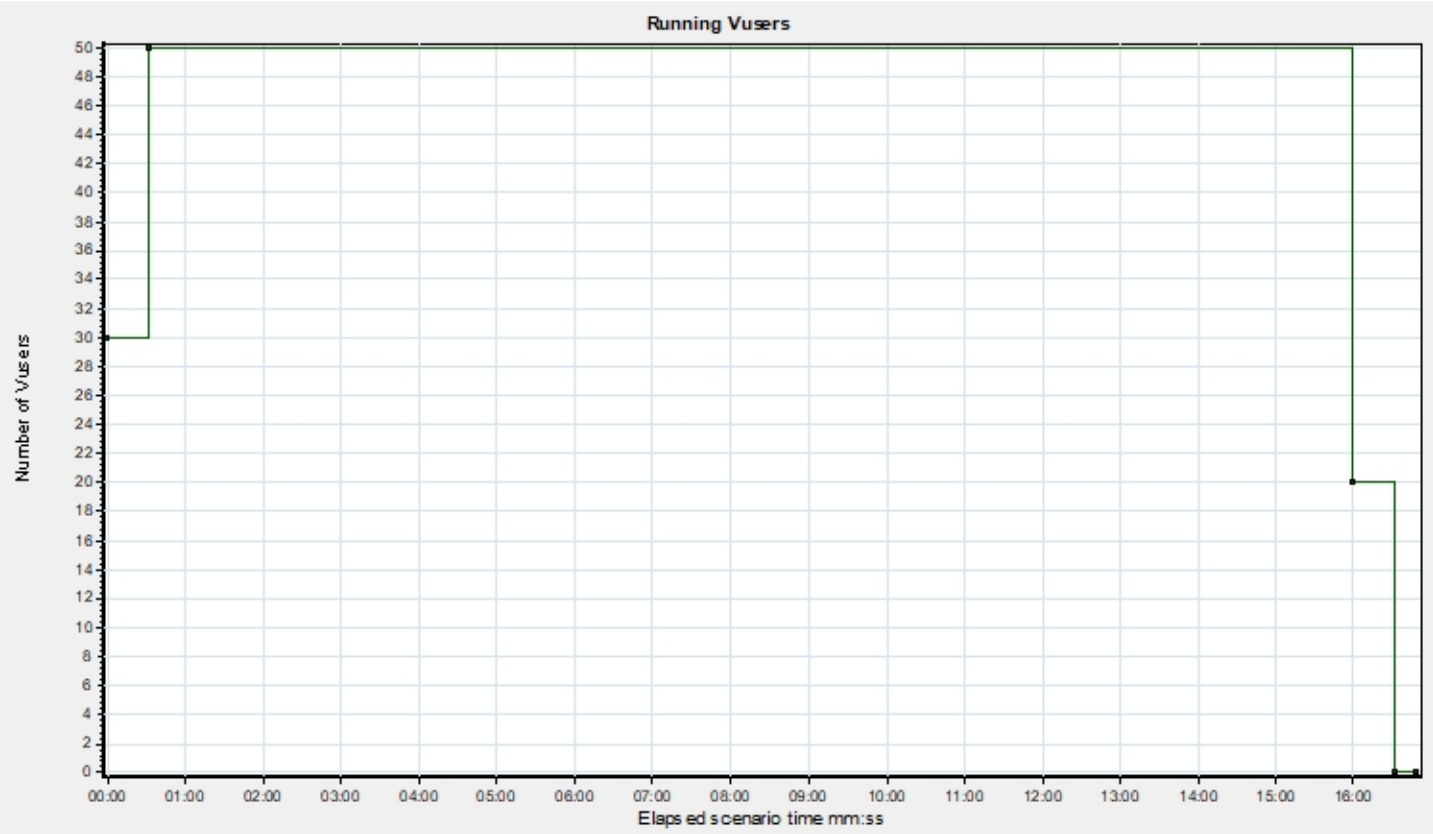
| URL name | Parent transaction name | Average size | Count | Total | Min | Max | Avg | StdDev |
|---|---------------------------|---|-------|--------|--------|--------|--------|--------|
| http://127.0.0.1:1080/cgi-bin/login.pl?username=&password=&getInfo=true | 1_transaction_Sign_Up_Now |  | 3 | 44.906 | 14.969 | 14.969 | 14.969 | 0.05 |
| http://127.0.0.1:1080/WebTours/index.htm | Action_Transaction |  | 3 | 36.535 | 12.175 | 12.181 | 12.178 | 0.036 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 1_transaction_Sign_Up_Now |  | 3 | 8.719 | 2.906 | 2.906 | 2.906 | 0.022 |
| http://127.0.0.1:1080/cgi-bin/welcome.pl?signOff=1 | 5_transactionSign_Off |  | 1 | 2.719 | 2.719 | 2.719 | 2.719 | 0.037 |
| http://127.0.0.1:1080/cgi-bin/login.pl | 2_transaction_Login |  | 3 | 3.035 | 1.012 | 1.012 | 1.012 | 0.01 |



■ Average size

Running Vusers

Title Running Vusers
Current Results C:\Users\13302\AppData\Local\Temp\res\res.lrr
Filters Vuser Status = (Run)
Group By
Granularity 32 Seconds

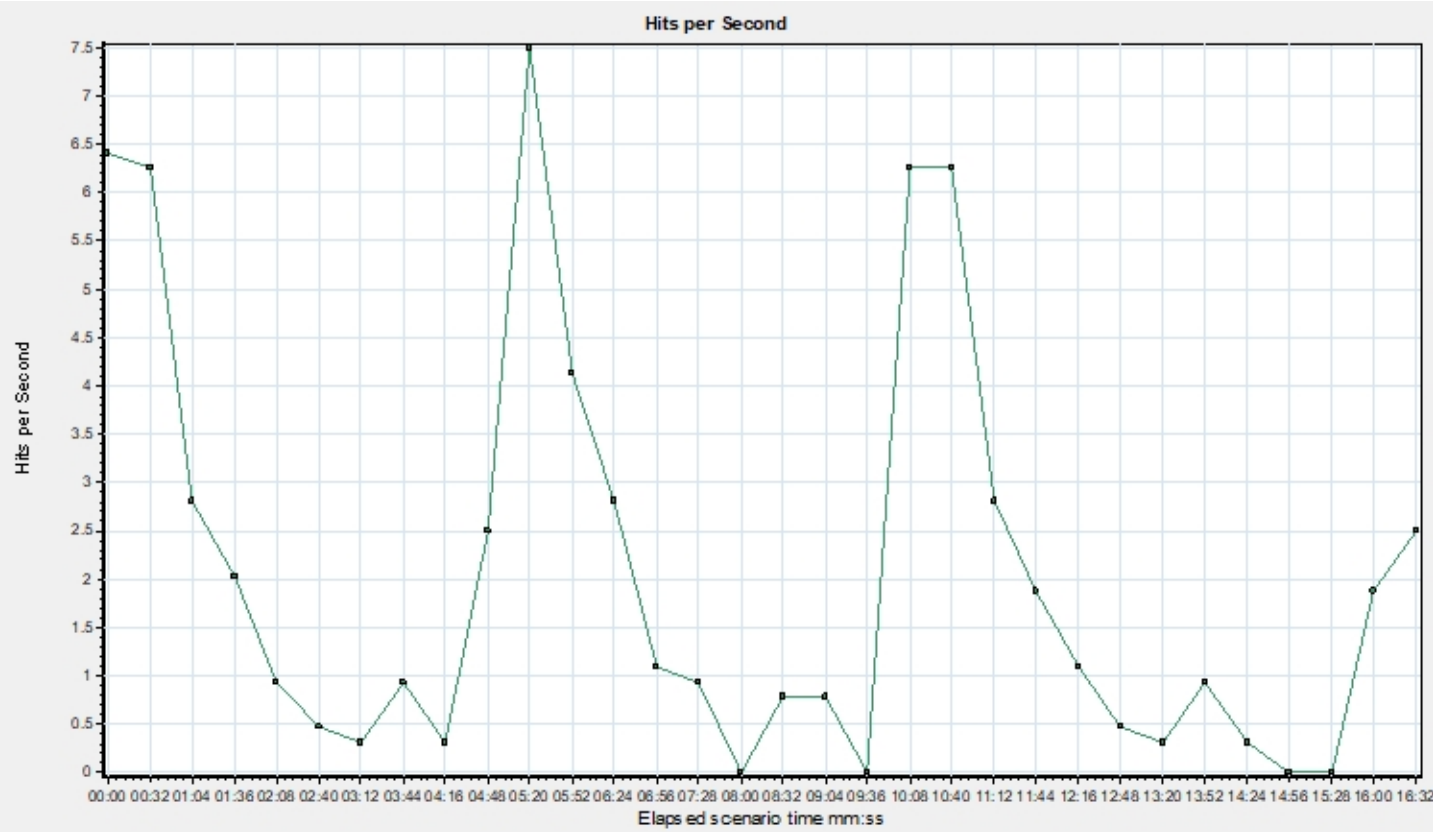


| Color | Scale | Measurement | Graph Minimum | Graph Average | Graph Maximum | Graph Median | Graph Std. Deviation |
|-------|-------|-------------|---------------|---------------|---------------|--------------|----------------------|
| | 1 | Run | 0.000 | 20.000 | 50.000 | 20.000 | 18.974 |

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

Title Hits per Second
Current Results C:\Users\13302\AppData\Local\Temp\res\res.lrr
Filters None
Group By
Granularity 32 Seconds

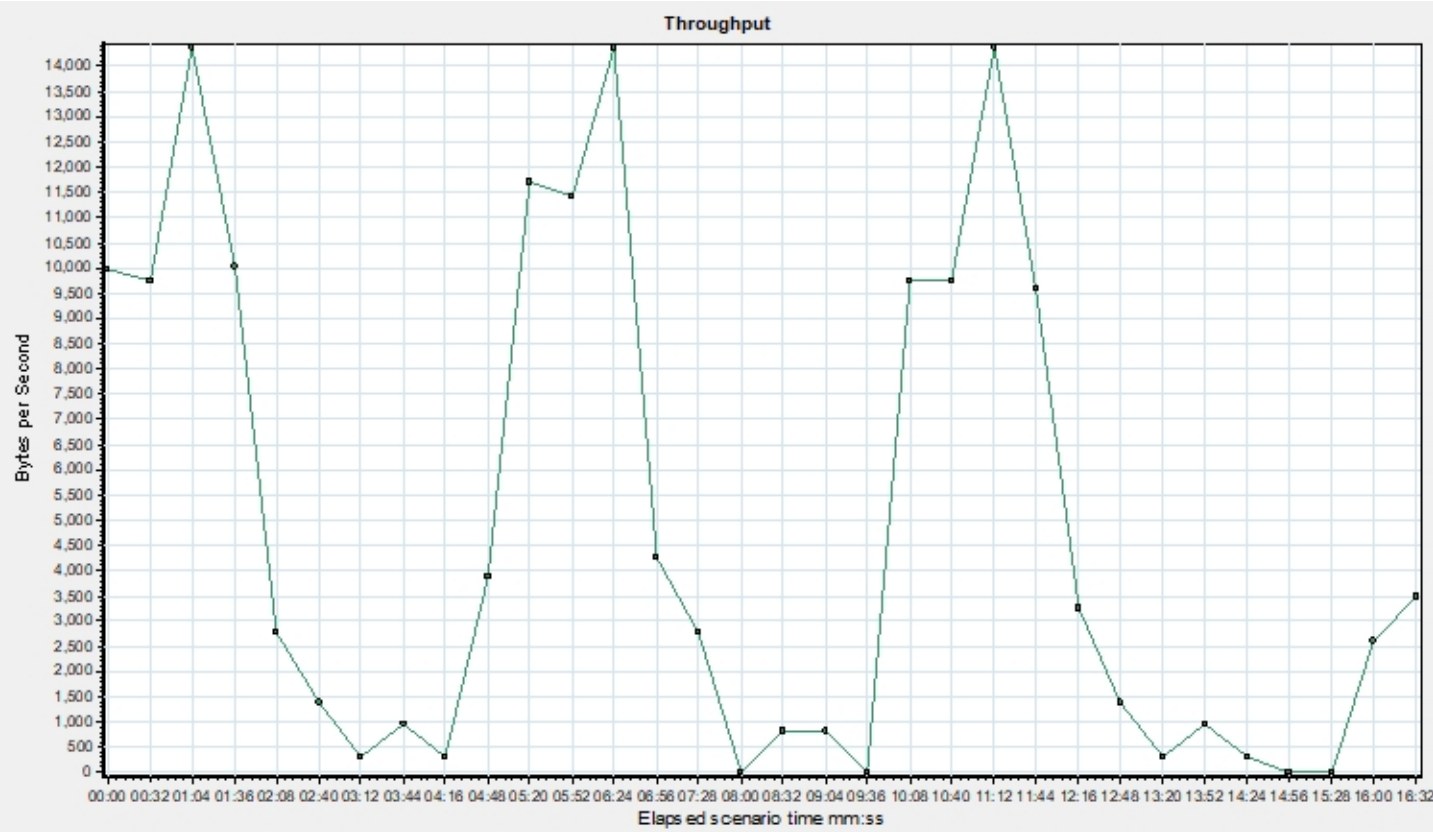


| Color | Scale | Measurement | Graph Minimum | Average | Graph Maximum | Graph Median | Graph Std. Deviation |
|-------|-------|-------------|---------------|---------|---------------|--------------|----------------------|
| | 1 | Hits | 0.000 | 2.046 | 7.500 | 1.094 | 2.179 |

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

| | |
|-----------------|---|
| Title | Throughput |
| Current Results | C:\Users\13302\AppData\Local\Temp\res\res.lrr |
| Filters | None |
| Group By | |
| Granularity | 32 Seconds |

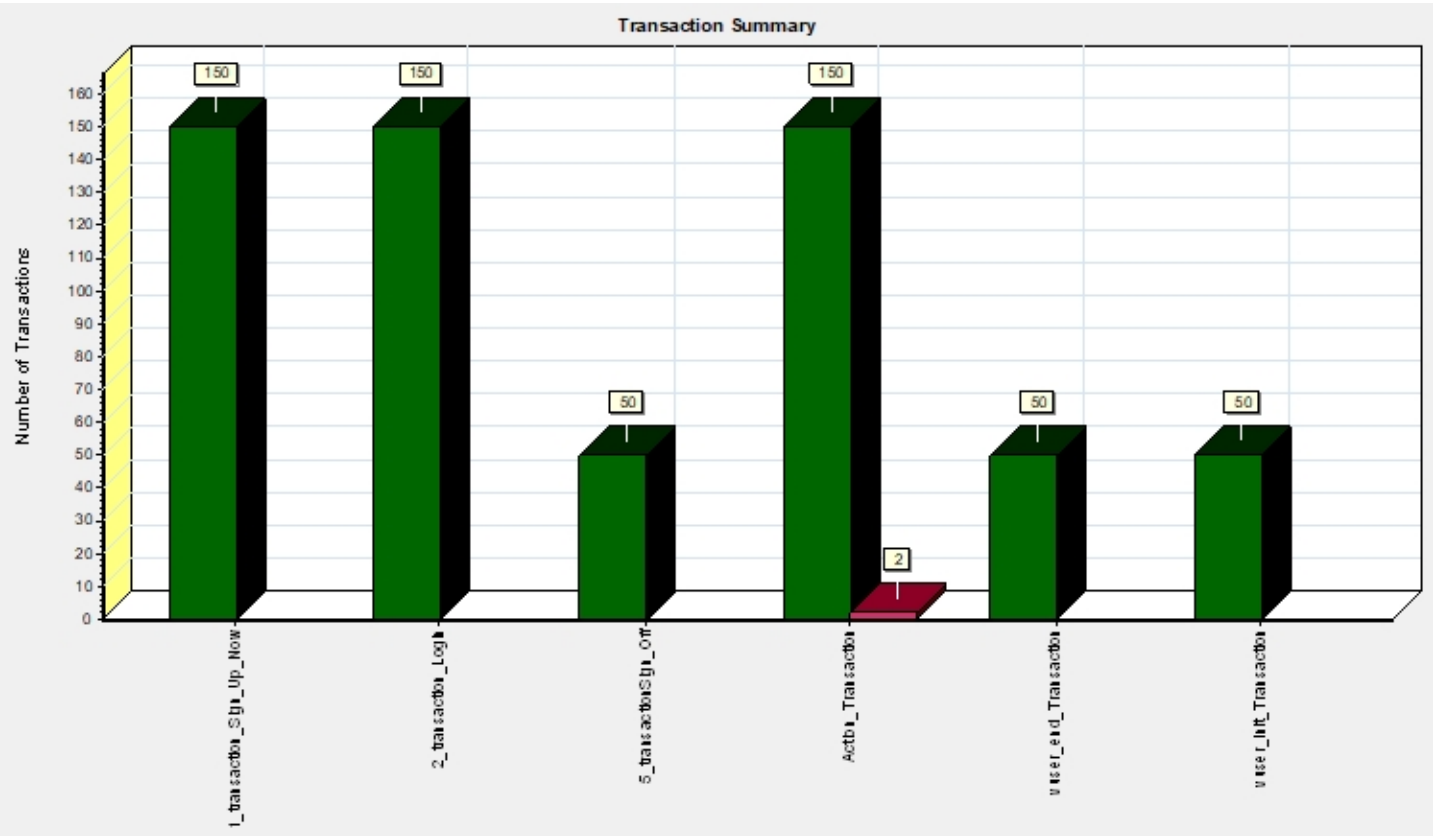


| Color | Scale | Measurement | Graph Minimum | Average | Graph Maximum | Graph Median | Graph Std. Deviation |
|-------|-------|-------------|---------------|-----------|---------------|--------------|----------------------|
| | 1 | Throughput | 0.000 | 4,890.052 | 14,370.000 | 2,790.000 | 4,972.474 |

Description: Displays the amount of throughput (in bytes) 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.

Transaction Summary

Title Transaction Summary
Current Results C:\Users\13302\AppData\Local\Temp\res\res.lrr
Filters (do not Include Think Time)
Group By

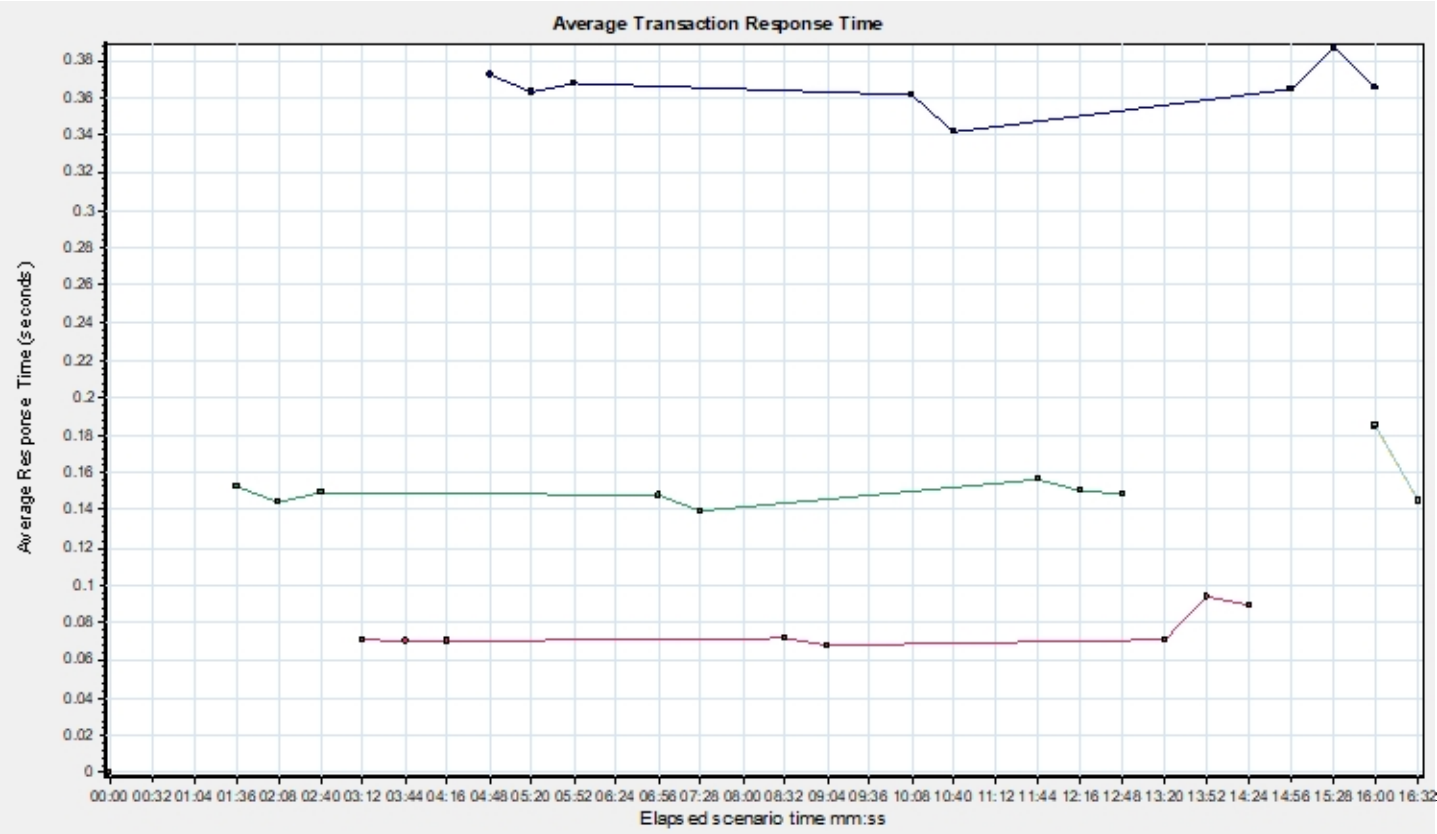


| Color | Scale | Measurement |
|-------|-------|-------------|
| Green | 1 | Pass |
| Red | 1 | Fail |

Description: Displays the number of transactions that passed, failed, stopped, or ended with errors.

Average Transaction Response Time

Title Average Transaction Response Time
Current Results C:\Users\13302\AppData\Local\Temp\res\res.lrr
Filters Transaction End Status = (Pass)(do not Include Think Time)
Group By
Granularity 32 Seconds,



| Color | Scale | Measurement | Minimum | Average | Maximum | Std. Deviation |
|------------|-------|---------------------------|---------|---------|---------|----------------|
| Green | 1 | 1_transaction_Sign_Up_Now | 0.094 | 0.147 | 0.167 | 0.009 |
| Pink | 1 | 2_transaction_Login | 0.053 | 0.076 | 0.168 | 0.018 |
| Yellow | 1 | 5_transactionSign_Off | 0.128 | 0.169 | 0.258 | 0.034 |
| Blue | 1 | Action_Transaction | 0.234 | 0.366 | 0.458 | 0.023 |
| Light Blue | 1 | vuser_end_Transaction | 0.128 | 0.169 | 0.258 | 0.034 |
| Brown | 1 | vuser_init_Transaction | 0.000 | 0.000 | 0.000 | 0.000 |

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.

Terminology

LoadRunner Objects

| Term | Definition |
|-------------------|--|
| User 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. |