# Discuz Performance Testing Report

2024-11-14

Author Details				
First Name	dan			
Surname	wen			
Job Title	Software Engineer			
Organization	Danwen			

#### Date: 2024-11-14

# Table of contents

General Details	3
Executive Summary	3
Conclusions	3
Business Process	3
Workload Characteristics	3
Performance Overview	4
HTTP Responses Summary	4
Transaction Summary	5
Worst URLs (by average response time)	5
Most Resource Consuming URLs	5
Largest URLs by Average KBytes	5
Running Vusers	7
Hits per Second	8
Throughput	9
Transaction Summary	10
Average Transaction Response Time	11
Web Page Diagnostics	12
Page Component Breakdown	13
Page Download Time Breakdown	14
Downloaded Component Size (KB)	15
Time to First Buffer Breakdown	16
Terminology	16

Author: dan wen

Page 2 out of 17 Organization: Danwen

#### Date: 2024-11-14

### **General Details**

Scenario Name Scenario 1
Run Name res.lrr

**Run Date** 2024-11-14 □ □ 11:14

**Period** 2024-11-14  $\square$  11:14 - 2024-11-14  $\square$  11:25

Run Duration 11 minutes and 2 seconds

**PC Project Name** 

### **Executive Summary**

#### Conclusions

### **Business Process**

Run Name	Group Name	Script Name	Concurrent Vusers	% of Total Vusers	Transactio ns per Hour	Start Time	Think Time	Pacing	Browser Cache
res.lrr	Discuz_34	Discuz_34_1	10	50		2024-11 -14 🗆 🗆 11:14			
res.lrr	Discuz_Index	Discuz_Index_1	10	50		2024-11 -14 🗆 🗆 11:14			
		Total:	20	100%					

### Script: Discuz\_34\_1

#### Description:

#	Transaction
1	Action_Transaction
2	vuser_end_Transaction
3	vuser_init_Transaction

### Script: Discuz\_Index\_1

#### Description:

#	Transaction
1	Action_Transaction
2	vuser_end_Transaction
3	vuser_init_Transaction

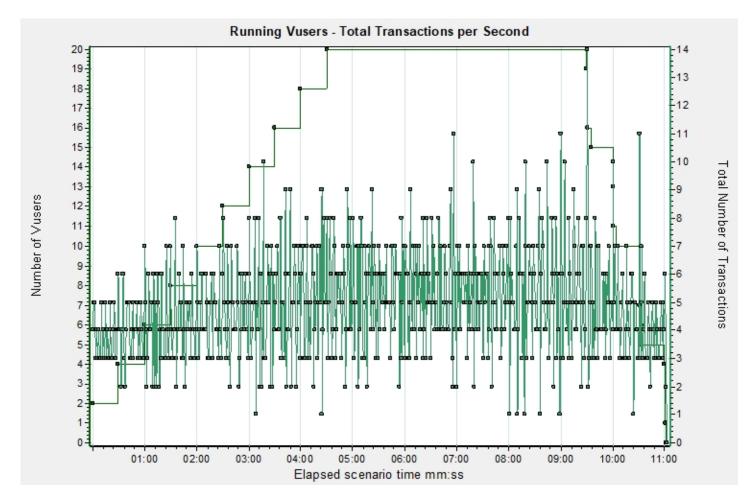
### **Workload Characteristics**

Measurement	res.lrr
Max Running Vusers	20
Average Hits per Second	86.6
Total Hits	57500
Total Passed Transactions per Second	4.9

Page 3 out of 17 Organization: Danwen

oort Title: Discuz Performance Testing Report	Author: dan wen
---	-----------------

Total Passed Transactions per Minute	293.9
Total Transactions Number	3



С	olor	Graph	Scale	Measurement	Graph's Minimum	Graph's Average	Graph's Maximum	Graph's Median	Graph's Std. Deviation
		Running Vusers	1	Run	-		20.000	10.000	6.085
		Total Transactions per Second	1	Pass	0.000	4.898	14.000	5.000	1.823

# Performance Overview

Measurement	Value
Run Name	res.lrr
Weighted Average of Transaction Response Time	0.5
Total Passed Transactions	3252
Total Failed Transactions	0
Transactions Success Rate, %	100
Total Errors per Second	0
Total Errors	0

Page 4 out of 17 Organization: Danwen

#### Date: 2024-11-14

### **HTTP Responses Summary**

HTTP Response Name	Total	Per Second
HTTP_200	57500	86.7

Author: dan wen

# **Transaction Summary**

#### Filter Transaction End Status= (Pass)

Run	Transaction Name	Minimum	Average	Maximum		90%	Pass Count	Fail Count	Stop Count
Name					Deviation				
res.lrr	Action_Transaction	0	1.5	109.9	3.4	3.3	3212	0	0
res.lrr	vuser_end_Transaction	0	0	0	0	0	20	0	0
res.lrr	vuser_init_Transaction	0	0	0	0	0	20	0	0

# Worst URLs (by average response time)

URL name	Parent transaction name	Lay	ers bre	akdow	n of the	URL	Count	Total	Min	Max	Avg	StdDev
http://bbs.huice.com/	Action_Transaction						383	2.4	0.3	28.9	3.5	5
http://bbs.huice.com/mem ber.php?mod=logging&act ion=login&loginsubmit=ye s&infloat=yes&lssubmit=y es&inajax=1	_						113	0.1	0	0.4	0.1	0.1
		0.5	1	1.4	1.9	2.4	seconds					



40.2

### Most Resource Consuming URLs

URL name	Parent transaction name	Tota	al server time		Count	Total	Min	Max	Avg	StdDev
http://bbs.huice.com/	Action_Transaction				383	100.4	0	7.5	0.3	0.5
http://bbs.huice.com/mem ber.php?mod=logging&act ion=login&loginsubmit=ye s&infloat=yes&lssubmit=y es&inajax=1	_				113	5.4	0	0.7	0	0.1
		20.1	60.2	100.4	seco	onds				

80.3

Total Server Time

# Largest URLs by Average KBytes

URL name	Parent transaction name	Average size	Count	Total	Min	Max	Avg	StdDev
http://bbs.huice.com/	Action_Transaction		383	45005.9	117.4	117.6	117.5	0
http://bbs.huice.com/mem ber.php?mod=logging&act ion=login&loginsubmit=ye s&infloat=yes&lssubmit=y es&inajax=1	_		113	206.4	1.8	1.8	1.8	0

23.5 70.5 117.5 KBytes 47 94

Average size

Page 5 out of 17 Organization: Danwen

Report Title: Discuz Performance Testing Report

Author: dan wen

Date: 2024-11-14

Page 6 out of 17 Organization: Danwen

# **Running Vusers**

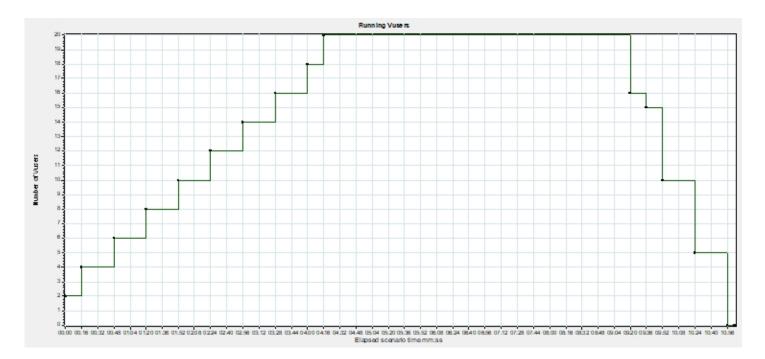
Title Running Vusers

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Vuser Status = (Run)

**Group By** 

Granularity 16 Seconds



Color	Scale	Measurement	Graph Minimum	Graph Average	Graph Maximum	Graph Median	Graph Std. Deviation
	1	Run	0.000	9.750	20.000	10.000	6.250

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.

Page 7 out of 17 Organization: Danwen

# Hits per Second

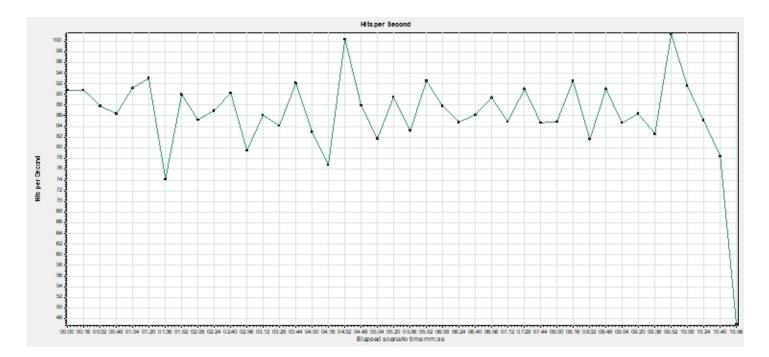
Title Hits per Second

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters None

**Group By** 

Granularity 16 Seconds



Color	Scale	Measurement	Graph Minimum	Average	Graph Maximum	Graph Median	Graph Std. Deviation
	1	Hits	47.000	86.727	101.313	86.375	8.106

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.

Page 8 out of 17 Organization: Danwen

# Throughput

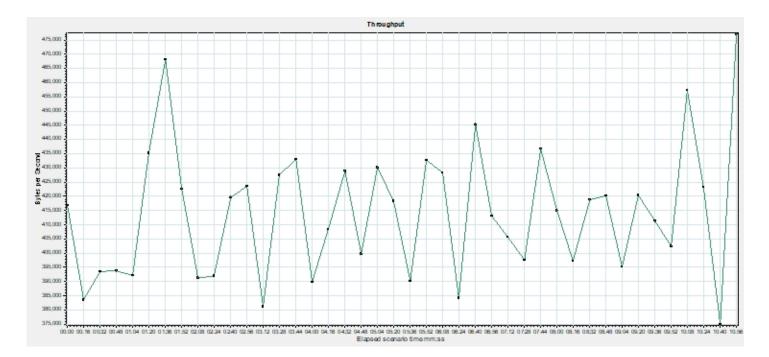
Title Throughput

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters None

**Group By** 

Granularity 16 Seconds



Color	Scale	Measurement	Graph Minimum	Average	Graph Maximum	Graph Median	Graph Std. Deviation
	1	Throughput	374,989.938	413,379.843	477,103.286	416,784.750	22,862.148

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.

Page 9 out of 17 Organization: Danwen

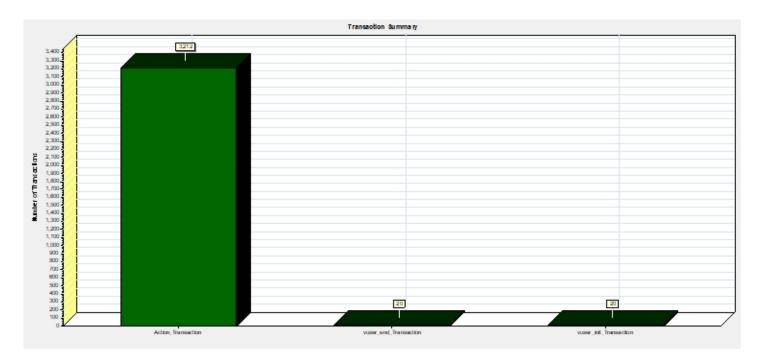
# **Transaction Summary**

Title Transaction Summary

Current Results C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters (do not Include Think Time)

**Group By** 



Color	Scale	Measurement
	1	Pass

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

Page 10 out of 17 Organization: Danwen

# Average Transaction Response Time

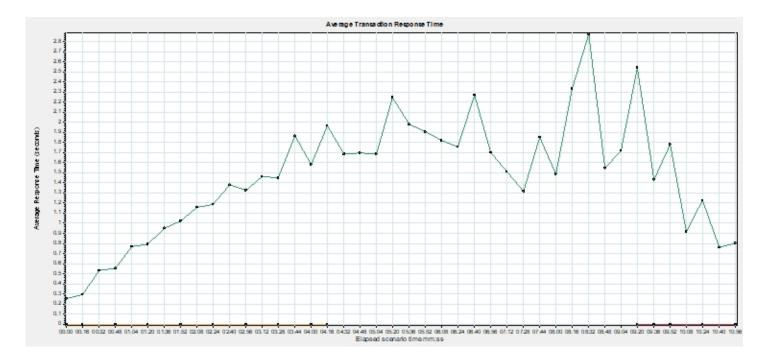
Title Average Transaction Response Time

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Transaction End Status = (Pass)(do not Include Think Time)

**Group By** 

**Granularity** 16 Seconds,



Color	Scale	Measurement	Graph's Minimum	Graph's Average	Graph's Maximum	Graph's Median	Graph's Std. Deviation
	1	Action_Transaction	0.257	1.462	2.872	1.511	0.581
	1	vuser_end_Transaction	0.000	0.000	0.000	0.000	0.000
	1	vuser_init_Transaction	0.000	0.000	0.000	0.000	0.000

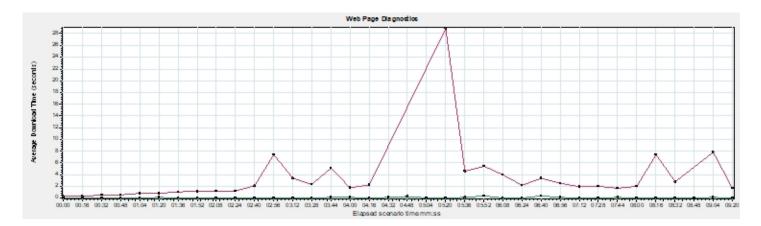
Description: Displays the average time taken to perform transactions during each second of the load test. This graph helps you determine whether the performance of the server is within acceptable minimum and maximum transaction performance time ranges defined for your system.

Page 11 out of 17 Organization: Danwen

# Web Page Diagnostics

Title Web Page Diagnostics

Graph Type Breakdown
Granularity 16 Seconds



Author: dan wen

Color	Scale	Measurement	Minimum	Average	Maximum	Std. Deviation
		bbs.huict=yes&inajax=1 (main URL):Action_Transaction -> bbs.huict=yes&inajax=1 (main URL)	0.038	0.089	1.063	0.158
		bbs.huice.com (main URL):Action_Transaction -> bbs.huice.com (main URL)	0.151	1.489	54.906	3.576

Description: Displays Web Page Diagnostics.

Page 12 out of 17 Organization: Danwen

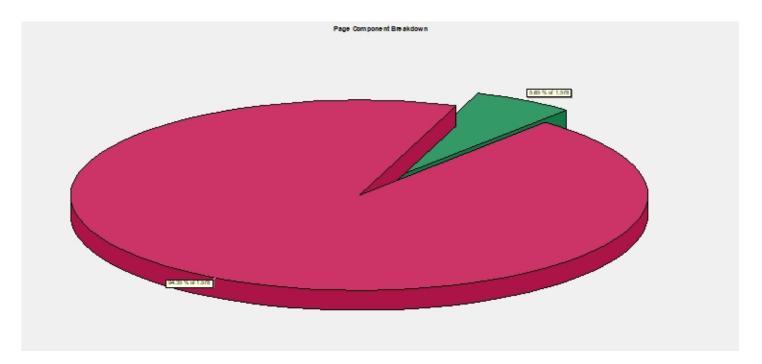
# Page Component Breakdown

Title Page Component Breakdown

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Component Type = (Page)

**Group By** 



Color	Scale	Measurement	Graph Minimum	Graph Average	Graph Maximum	Graph Median	Graph Std. Deviation
	1	bbs.huict=yes&inajax=1 (main URL)	0.089	0.089	0.089	0.089	0.000
	1	bbs.huice.com (main URL)	1.489	1.489	1.489	1.489	0.000

Description: Displays the average download time (in seconds) for each Web page and its components.

Page 13 out of 17 Organization: Danwen

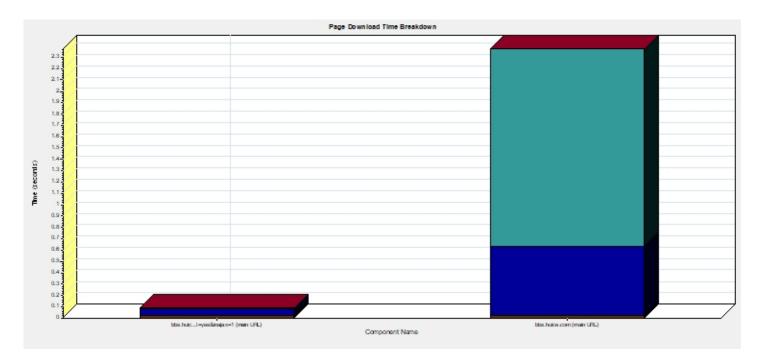
# Page Download Time Breakdown

Title Page Download Time Breakdown

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Component Type = (Page)

**Group By** 



Color	Scale	Measurement	Minimum	Average	Maximum	Std. Deviation
	1	DNS Resolution Time	0.000	0.000	0.010	0.000
	1	Connection Time	0.005	0.023	1.019	0.078
	1	SSL Handshaking Time	0.000	0.000	0.000	0.000
	1	FTP Authentication Time	0.000	0.000	0.000	0.000
	1	First Buffer Time	0.032	0.488	7.897	0.527
	1	Receive Time	0.000	1.339	54.875	3.693
	1	Client Time	0.000	0.002	0.009	0.002
	1	Error Time	0.000	0.000	0.000	0.000

Description: Displays a breakdown of each page component's download time.

Page 14 out of 17 Organization: Danwen

# Downloaded Component Size (KB)

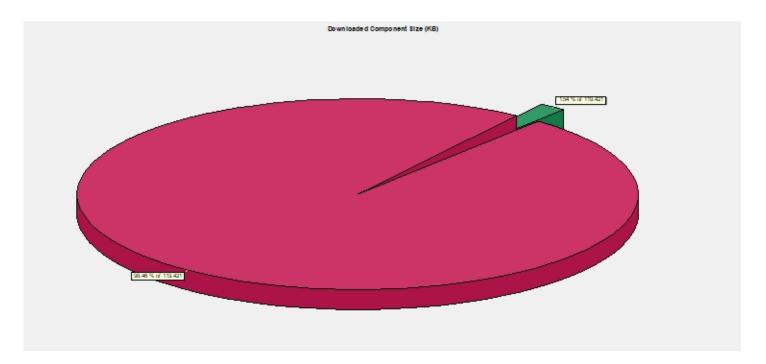
Title Downloaded Component Size (KB)

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Component Type = (Page)

**Group By** 

Date: 2024-11-14



Color	Scale	Measurement	Graph Minimum	Graph Average	Graph Maximum	Graph Median	Graph Std. Deviation
	1	bbs.huict=yes&inajax=1 (main URL)	1.836	1.836	1.836	1.836	0.000
	1	bbs.huice.com (main URL)	117.585	117.585	117.585	117.585	0.000

Description: Displays the size of each Web page component. Note that the size displayed includes both the size of the component and its header.

Page 15 out of 17 Organization: Danwen

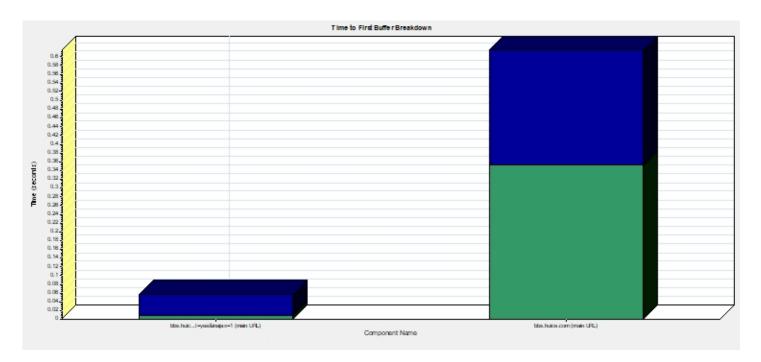
### Time to First Buffer Breakdown

Title Time to First Buffer Breakdown

C:\Users\86134\AppData\Local\Temp\res\res.lrr

Filters Component Type = (Page)

**Group By** 



Col	or Scale	Measurement	Minimum	Average	Maximum	Std. Deviation
	1	Network Time	0.005	0.274	1.532	0.199
	1	Server Time	0.023	0.213	7.511	0.440

Description: Displays each Web page component's relative server/network time (in seconds) for the period of time until the first buffer is successfully received back from the Web server.

# 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 (Irr 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.

Page 16 out of 17 Organization: Danwen

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.

Author: dan wen

# **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.
, ,	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.
	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.

Page 17 out of 17 Organization: Danwen