

***STRESS TEST* SISTEM INFORMASI AKADEMIK
UNIVERSITAS ISLAM NEGERI SUNAN KALIJAGA**

Skripsi

Untuk memenuhi sebagian persyaratan

Mencapai derajat Sarjana S-1

Program Studi Teknik Informatika



Disusun Oleh :

Hanif Taqdimullah As-Shidiq

NIM. 11650038

**PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS ISLAM NEGERI
SUNAN KALIJAGA
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PENGESAHAN SKRIPSI/TUGAS AKHIR

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Yang dipersiapkan dan disusun oleh :
Nama : Hanif Taqdimullah As-Shidiq
NIM : 11650038
Telah dimunaqasyahkan pada : 13 Desember 2016
Nilai Munaqasyah : A/B
Dan dinyatakan telah diterima oleh Fakultas Sains dan Teknologi UIN Sunan Kalijaga

TIM MUNAQASYAH :

Ketua Sidang

Agung Fatwanto, Ph.D
NIP. 19770103 200501 1 003

Penguji I

Dr. Bambang Sugiantoro
NIP.19751024 200912 1 002

Penguji II

Aulia Faqih Rifa'i, M. Kom
NIP.19860306 201101 1 009

Yogyakarta, 2016
UIN Sunan Kalijaga

Fakultas Sains dan Teknologi
Dekan



Dr. Murtono, M.Si
NIP. 19691212 200003 1 001



SURAT PERSETUJUAN SKRIPSI/TUGAS AKHIR

Hal :

Lamp :

Kepada

Yth. Dekan Fakultas Sains dan Teknologi

UIN Sunan Kalijaga Yogyakarta

di Yogyakarta

Assalamu'alaikum wr. wb.

Setelah membaca, meneliti, memberikan petunjuk dan mengoreksi serta mengadakan perbaikan seperlunya, maka kami selaku pembimbing berpendapat bahwa skripsi Saudara:

Nama : Hanif Taqdimullah As-Shidiq
NIM : 11650038
Judul Skripsi : *Stress Test* Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga

sudah dapat diajukan kembali kepada Program Studi Teknik Informatika Fakultas Sains dan Teknologi UIN Sunan Kalijaga Yogyakarta sebagai salah satu syarat untuk memperoleh gelar Sarjana Strata Satu dalam ilmu sains dan teknologi

Dengan ini kami mengharap agar skripsi/tugas akhir Saudara tersebut di atas dapat segera dimunaqsyahkan. Atas perhatiannya kami ucapkan terima kasih.

Wassalamu'alaikum wr. wb.

Yogyakarta, 07 Desember 2016

Pembimbing

Agung Fatwanto, Ph. D.

NIP. 19770103 200501 1 003

PERNYATAAN KEASLIAN SKRIPSI

Yang bertanda tangan di bawah ini :

Nama : Hanif Taqdimullah As-Shidiq

NIM : 11650038

Program Studi : Teknik Informatika

Fakultas : Sains dan Teknologi

Menyatakan bahwa skripsi dengan judul "***Stress Test Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga***" tidak terdapat pada karya yang pernah diajukan untuk memperoleh gelar sarjana di suatu Perguruan Tinggi, dan sepengetahuan saya tidak terdapat karya atau pendapat yang pernah ditulis oleh orang lain, kecuali yang secara tertulis diacu dalam naskah ini dan disebutkan dalam daftar pustaka.

Yogyakarta, 07 Desember 2016

Yang Menyatakan,



Hanif Taqdimullah As-Shidiq
NIM. 11650038

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HALAMAN MOTO

“Ilmu itu bukan yang dihafal tetapi yang memberi manfaat”

(Imam Syafi’i)

“Knowledge is power”

(Sir Francis Bacon)

“The only source of knowledge is experience”

(Albert Einstein)



STRESS TEST SISTEM INFORMASI AKADEMIK

UNIVERSITAS ISLAM NEGERI SUNAN KALIJAGA

Hanif Taqdimullah As-Shidiq

11650038

INTISARI

Sistem Informasi Akademik merupakan sebuah sistem yang mampu mengolah informasi akademik secara akurat dan tepat waktu. Semua kegiatan yang sebelumnya masih bersifat manual seperti masa KRS, pendaftaran ujian tugas akhir, pendaftaran yudisium, pendaftaran wisuda, dll sudah bisa dilayani lewat jalur online. Seiring berjalannya waktu teknologi bagaikan bom waktu yang siap meledak apabila tidak diimbangi dengan *maintenance* berkala dan *upgrade system*.

Setiap kemudahan-kemudahan yang ada terdapat masalah-masalah baru yang timbul dari kegiatan layanan akademik yang bersifat online. Salah satu permasalahannya adalah sistem yang sering stress akibat terlalu banyaknya pengguna yang mengakses dan mengirim permintaan secara bersamaan. Permasalahan tersebut kerap kali menimpa mahasiswa ketika kegiatan akademik yang bersifat massal seperti masa input KRS. Banyaknya pengguna yang mengakses tidak sebanding dengan infrastruktur yang dimiliki, hingga sering kali sistem error.

Dalam mengatasi masalah tersebut perlu suatu kebijakan yang tepat agar Sistem Informasi Akademik bisa beroperasi secara normal dan optimal, salah satunya dengan menentukan beban maksimal. Data tersebut bisa diketahui dari dokumentasi sistem dan hasil pengujian stres. Pengujian ini dilakukan dengan menggunakan Webserver Stress Tool 8 (Freeware). Pada aplikasi tersebut terdapat 2 skenario yang bisa digunakan untuk menguji stres pada Sistem Informasi Akademik yaitu *Ramp Test* dan *Time Test*. Webserver Stress Tool 8 (Freeware) menerapkan metode *Brute Force* dalam melakukan simulasi pengujiannya.

Berdasarkan hasil pengujian dan data dokumentasi Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga, beban maksimal yang dapat beroperasi secara normal pada sistem adalah antara 180 s.d. 281 pengguna secara bersamaan (*concurrent*).

Kata Kunci : Sistem Informasi Akademik, *Stress Test*, *Ramp Test*, *Time Test*, Algoritma *Brute Force*, Webserver Stress Tool 8 (Freeware), *Performance Test*.

**STRESS TEST ON STATE ISLAMIC UNIVERSITY
SUNAN KALIJAGA'S ACADEMIC INFORMATION SYSTEM**

**Hanif Taqdimullah As-Shidiq
11650038**

ABSTRACT

Academic Information System (aka. SIA) is a system that capable to process academic information accurately and on time. Each activity which using manual procedure like KRS, exam registrasion, final task, yudisium registrasion, graduation registrasion, and many other can be done by using online procedure. By mean time technology like a ticking bom which could explode anytime when maintenance and system upgrade not well-balance and doing periodically.

Each many easy way give any new problems that reveal on online academic activity service. The one problem that system always got stress point when many user access and sending demand at the same time. This chronic problem usually happen and felt annoying to student when there was a major academic activity like input KRS time. Too many wave that access the system wasn't equal with the infrastructure which made many system error.

In order to fix the problem, it should be a proper policy to make SIA to operate optimally and normally progress that can be done with choose a maximum weight. This data could be known from system documentation and stress testing result. This test can be done by using a freeware called Webservers Stress Tool 8. In this freeware, there was 2 scenario which can be used for stress testing on SIA with Ramp Test and Time Test. Webservers Stress Tool 8 using Brute Force method for test simulation.

Based on result test and documentation data of State Islamic University Sunan Kalijaga's Akademik Information System. For maximum weight that could be operated at normal state between 180 to 281 user at the same time on the system.

Keyword : SIA (Academic Information System), Stress Test, Ramp Test, Time Test, Brute Force Algorithm, Webservers Stress Tool 8, Performance Stress.

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BAB I

PENDAHULUAN

1.1. Latar Belakang

UIN Sunan Kalijaga merupakan salah satu perguruan tinggi terkemuka di Indonesia. Dalam perkembangannya menjadi PTAIN terbaik di Indonesia, tidak terlepas dari perkembangan SDM dan sarana prasarananya, salah satunya adalah perkembangan teknologi dan informasi di bidang akademik.

Dalam upaya meningkatkan kualitas pelayanan administrasi Universitas Islam Negeri Sunan Kalijaga diperlukan adanya sarana pendukung berupa Puskom yang berkemampuan tinggi, teruji tingkat validitasnya, efisien, efektif dan didukung oleh keakuratan data, kecepatan pengolahan serta keamanan yang terjamin, maka Universitas Islam Negeri Sunan Kalijaga membentuk unit pelaksana teknis yang bernama Pusat Komputer dan Sistem Informasi (PKSI).

Seiring dengan perkembangan teknologi yang menuntut adanya jaminan pengelolaan data dan pengolahan serta penyajian informasi yang cepat dan akurat, maka pada tahun 2013 diadakan perubahan tugas dan fungsi dari PKSI yang berdampak pada perubahan terhadap nama unit pengelola data dan informasi ini sehingga menjadi Pusat Teknologi Informasi dan Pangkalan Data (PTIPD).

PTIPD memiliki tugas untuk mengelola dan mengembangkan sistem informasi manajemen, pengembangan, pemeliharaan jaringan dan aplikasi, pengelolaan basis data, pengembangan teknologi lainnya, dan kerjasama jaringan.

Berawal dari pelayanan akademik yang masih menggunakan tenaga manual serta membutuhkan waktu yang panjang, PTIPD berkeinginan mengotomasi semua kegiatan pelayanan akademik. Dengan harapan memberikan pelayanan yang terbaik dan memudahkan civitas akademik dalam melakukan tugasnya, PTIPD membuat sebuah sistem layanan akademik yaitu Sistem Informasi Akademik.

Sistem Informasi Akademik merupakan sebuah sistem yang mampu mengolah informasi akademik secara akurat dan tepat waktu. Semua kegiatan yang sebelumnya masih bersifat manual seperti masa KRS, pendaftaran ujian tugas akhir, pendaftaran yudisium, pendaftaran wisuda, dll sudah bisa dilayani lewat jalur online. Seiring berjalannya waktu teknologi bagaikan bom waktu yang siap meledak apabila tidak diimbangi dengan *maintenance* berkala dan *upgrade system*.

Setiap kemudahan-kemudahan yang ada, terdapat masalah-masalah baru yang timbul dari kegiatan layanan akademik yang bersifat *online*. Salah satu permasalahannya adalah sistem yang sering stres akibat terlalu banyaknya pengguna yang mengakses dan mengirim permintaan secara bersamaan. Permasalahan tersebut kerap kali menimpa mahasiswa ketika kegiatan akademik yang bersifat massal seperti masa input KRS. Banyaknya pengguna

yang mengakses tidak sebanding dengan infrastruktur yang dimiliki, hingga sering kali sistem error.

Oleh sebab itu perlu diadakan penelitian dan pengujian lebih lanjut terkait beban kapasitas maksimal operasional layanan Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga dalam menerima permintaan dari pengguna. Salah satunya dengan melakukan *Stress Test*. *Stress Test* adalah pengujian yang dilakukan untuk mengetahui kemampuan perangkat lunak atau webserver dalam menangani kondisi yang tidak normal (mencakup kuantitas/volume).

Salah satu *tools* yang bisa digunakan yaitu Webserver Stress Tool (WST). WST adalah aplikasi tes HTTP-*client / server* yang dirancang untuk menentukan masalah kinerja penting dalam situs web *server* yang dapat mencegah pengalaman optimal bagi pengunjung situs.

Dengan mensimulasikan permintaan HTTP yang dihasilkan oleh ratusan atau bahkan ribuan pengguna secara simultan, dapat menguji kinerja *server* web di bawah beban normal dan berlebihan untuk memastikan bahwa informasi dan layanan penting tersedia dengan cepat bagi pengguna sesuai yang diharapkan.

Salah satu pengujian yang ada pada Webserver Stress Tool (WST) adalah *Stress Test*. *Stress Test* mensimulasi serangan "*brute force*" yang menerapkan beban yang berlebihan ke web *server*. Situasi seperti ini "*brute force*" dapat disebabkan oleh lonjakan besar dalam aktivitas pengguna.

1.2. Rumusan Masalah

1. Bagaimana cara merancang prosedur *Stress Test* perangkat lunak untuk menentukan tingkat stres dalam Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga.
2. Bagaimana mengetahui beban kapasitas maksimal Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga agar tetap bisa beroperasi secara normal.

1.3. Tujuan Penelitian

1. Mampu merancang prosedur pengujian perangkat lunak untuk menentukan tingkat stres dalam Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga.
2. Mengetahui beban kapasitas maksimal Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga agar tetap bisa beroperasi secara normal.

1.4. Batasan Penelitian

1. Pengujian yang dilakukan hanya pada *Stress Test*.
2. Tools yang digunakan Webserver Stress Tool 8 (Freeware).

1.5. Manfaat Penelitian

Dengan diadakannya penelitian ini, diharapkan Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga dapat beroperasi secara normal dan optimal ketika masa KRS berlangsung.

1.6. Keaslian Penelitian

Penelitian “*Stress Test* Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga” di fakultas Sains dan Teknologi Universitas Islam Negeri Sunan Kalijaga Yogyakarta belum pernah dilakukan.

BAB V

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Berdasarkan hasil pengujian dan analisis yang telah dilakukan terhadap Layanan Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga, maka dapat diambil kesimpulan sebagai berikut :

1. Telah berhasil dirancang sebuah prosedur *Stress Test* pada layanan Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga dalam bentuk skenario *Ramp Test* dan *Time Test* menggunakan Websserver Stress Tool 8 (Freeware).
2. Berdasarkan hasil pengujian dan analisis dari *Ramp Test* dan *Time Test* pada tabel 4.1 (halaman 57), dapat disimpulkan bahwa beban kapasitas maksimal Sistem Informasi Akademik Universitas Islam Negeri Sunan Kalijaga yang dapat beroperasi secara normal adalah antara 180 s.d. 281 pengguna secara bersamaan (*concurrent*).

5.2. Saran

Penulis menyadari bahwa penelitian yang telah dilakukan masih belum sempurna, maka dari itu saran dari penulis untuk penelitian yang selanjutnya dapat memperbaiki hasil yang belum maksimal, diantaranya :

1. Perlu dilakukan perancangan skenario pengujian yang lebih kompleks dan rinci.

2. Perlu alat bantu pengujian selain Webservice Stress Tool.
3. Perlu melakukan antisipasi resiko yang mungkin terjadi selama pengujian berlangsung.



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LAMPIRAN I : DAFTAR URL

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2		http://akademik.uin-suka.ac.id/open_login
3		http://akademik.uin-suka.ac.id/mahasiswa
4		http://akademik.uin-suka.ac.id/mahasiswa/dosenprodi-daftar.html
5		http://akademik.uin-suka.ac.id/mahasiswa/matakuliah-kurikulum.html
6		http://akademik.uin-suka.ac.id/mahasiswa/dosenprodi-daftar.html
7		http://akademik.uin-suka.ac.id/mahasiswa/krssemua-lihat.html
8		http://akademik.uin-suka.ac.id/mahasiswa/khs-semester.html
9		http://akademik.uin-suka.ac.id/mahasiswa/khs-semester.html
10		http://akademik.uin-suka.ac.id/mahasiswa/khs-semester.html
11		http://akademik.uin-suka.ac.id/mahasiswa/khs-kumulatif.html
12		http://akademik.uin-suka.ac.id/mahasiswa/khs-kumulatif.html
13		http://akademik.uin-suka.ac.id/mahasiswa/ip-sejarah.html
14		http://akademik.uin-suka.ac.id/mahasiswa/ip-sejarah.html
15		http://akademik.uin-suka.ac.id/mahasiswa/jadwal-kuliah.html
16		http://akademik.uin-suka.ac.id/mahasiswa/jadwal-ujian.html
17		http://akademik.uin-suka.ac.id/mahasiswa/presensi-kuliah.html
18		http://akademik.uin-suka.ac.id/mahasiswa/presensi-ujian.html
19		http://akademik.uin-suka.ac.id/data_pribadi_mahasiswa
20		http://akademik.uin-suka.ac.id/data_pribadi_mahasiswa/cek
21		http://akademik.uin-suka.ac.id/data_pribadi_mahasiswa/data_diri
22		http://akademik.uin-suka.ac.id/data_pribadi_mahasiswa/data_diri
23		http://akademik.uin-suka.ac.id/data_pribadi_mahasiswa/data_keluarga
24		http://akademik.uin-suka.ac.id/ikd#ikd
25		http://akademik.uin-suka.ac.id/ikd/cekIsiKuesioner
26		http://akademik.uin-suka.ac.id/pembayaran/mahasiswa.html
27		http://akademik.uin-suka.ac.id/mahasiswa/syarat-pembayaran.html
28		http://akademik.uin-suka.ac.id/mahasiswa/pembayaran-riwayat.html

29	http://akademik.uin-suka.ac.id/mahasiswa/tagihan-riwayat.html
30	http://akademik.uin-suka.ac.id/kkn/kkn_mhs
31	http://akademik.uin-suka.ac.id/kkn/kkn_mhs/pra_kkn
32	http://akademik.uin-suka.ac.id/kkn/kkn_mhs/syaratKkn
33	http://akademik.uin-suka.ac.id/kkn/kkn_mhs/home
34	http://akademik.uin-suka.ac.id/kkn/kkn_mhs/riwayat_kkn
35	http://akademik.uin-suka.ac.id/kp
36	http://akademik.uin-suka.ac.id/kp/mhskpprodi
37	http://akademik.uin-suka.ac.id/kp/daftarUjianKP/0
38	http://akademik.uin-suka.ac.id/kp/daftarUjianKP/1
39	http://akademik.uin-suka.ac.id/kp/daftarUjianKP/2
40	http://akademik.uin-suka.ac.id/kp/daftarUjianKP/3
41	http://akademik.uin-suka.ac.id/kp/daftarUjianKP/4
42	http://akademik.uin-suka.ac.id/kp/bimbinganKP/0
43	http://akademik.uin-suka.ac.id/kp/bimbinganKP/1
44	http://akademik.uin-suka.ac.id/kp/bimbinganKP/2
45	http://akademik.uin-suka.ac.id/kp/bimbinganKP/3
46	http://akademik.uin-suka.ac.id/kp/bimbinganKP/4
47	http://akademik.uin-suka.ac.id/kp/riwayat
48	http://akademik.uin-suka.ac.id/tugas_akhir
49	http://akademik.uin-suka.ac.id/tugas_akhir/mhstaprodi
50	http://akademik.uin-suka.ac.id/tugas_akhir/daftarUjianTugasAkhir/0
51	http://akademik.uin-suka.ac.id/tugas_akhir/daftarUjianTugasAkhir/1
52	http://akademik.uin-suka.ac.id/tugas_akhir/daftarUjianTugasAkhir/2
53	http://akademik.uin-suka.ac.id/tugas_akhir/daftarUjianTugasAkhir/3
54	http://akademik.uin-suka.ac.id/tugas_akhir/daftarUjianTugasAkhir/4
55	http://akademik.uin-suka.ac.id/tugas_akhir/bimbinganTugasAkhir/0
56	http://akademik.uin-suka.ac.id/tugas_akhir/bimbinganTugasAkhir/1
57	http://akademik.uin-suka.ac.id/tugas_akhir/bimbinganTugasAkhir/2
58	http://akademik.uin-suka.ac.id/tugas_akhir/bimbinganTugasAkhir/3
59	http://akademik.uin-suka.ac.id/tugas_akhir/bimbinganTugasAkhir/4

60	http://akademik.uin-suka.ac.id/tugas_akhir/riwayat
61	http://akademik.uin-suka.ac.id/beasiswa
62	http://akademik.uin-suka.ac.id/training
63	http://akademik.uin-suka.ac.id/uedu/daftartraining
64	http://akademik.uin-suka.ac.id/uedu/jadwaltraining
65	http://akademik.uin-suka.ac.id/uedu/riwayattraining
66	http://akademik.uin-suka.ac.id/ict/ict2/daftarplacement
67	http://akademik.uin-suka.ac.id/ict/ict2/jadwalplacement
68	http://akademik.uin-suka.ac.id/ict/ict2/riwayatplacement
69	http://akademik.uin-suka.ac.id/ict/ict2/daftartraining2
70	http://akademik.uin-suka.ac.id/ict/ict2/jadwaltraining
71	http://akademik.uin-suka.ac.id/ict/ict2/riwayattraining
72	http://akademik.uin-suka.ac.id/ict/ict2/daftarsertifikasi
73	http://akademik.uin-suka.ac.id/ict/ict2/jadwalsertifikasi
74	http://akademik.uin-suka.ac.id/ict/ict2/riwayatsertifikasi
75	http://akademik.uin-suka.ac.id/toec/daftarplacement
76	http://akademik.uin-suka.ac.id/toec/jadwalplacement
77	http://akademik.uin-suka.ac.id/toec/riwayatplacement
78	http://akademik.uin-suka.ac.id/toec/daftartraining
79	http://akademik.uin-suka.ac.id/toec/jadwaltraining
80	http://akademik.uin-suka.ac.id/toec/riwayattraining
81	http://akademik.uin-suka.ac.id/toec/daftarsertifikasi
82	http://akademik.uin-suka.ac.id/toec/jadwalsertifikasi
83	http://akademik.uin-suka.ac.id/toec/riwayatsertifikasi
84	http://akademik.uin-suka.ac.id/ikla/daftarplacement
85	http://akademik.uin-suka.ac.id/ikla/jadwalplacement
86	http://akademik.uin-suka.ac.id/ikla/riwayatplacement
87	http://akademik.uin-suka.ac.id/ikla/daftartraining
88	http://akademik.uin-suka.ac.id/ikla/jadwaltraining
89	http://akademik.uin-suka.ac.id/ikla/riwayattraining
90	http://akademik.uin-suka.ac.id/ikla/daftarsertifikasi

91	http://akademik.uin-suka.ac.id/ikla/jadwalsertifikasi
92	http://akademik.uin-suka.ac.id/ikla/riwayatsertifikasi
93	http://akademik.uin-suka.ac.id/upbi/daftarplacement
94	http://akademik.uin-suka.ac.id/upbi/jadwalplacement
95	http://akademik.uin-suka.ac.id/upbi/riwayatplacement
96	http://akademik.uin-suka.ac.id/upbi/daftartraining
97	http://akademik.uin-suka.ac.id/upbi/jadwaltraining
98	http://akademik.uin-suka.ac.id/upbi/riwayattraining
99	http://akademik.uin-suka.ac.id/upbi/daftarsertifikasi
100	http://akademik.uin-suka.ac.id/upbi/jadwalsertifikasi
101	http://akademik.uin-suka.ac.id/upbi/riwayatsertifikasi
102	http://akademik.uin-suka.ac.id/penelitian
103	http://akademik.uin-suka.ac.id/yudisium
104	http://akademik.uin-suka.ac.id/yudisium/daftaryudisium
105	http://akademik.uin-suka.ac.id/wisuda/daftarwisuda
106	http://akademik.uin-suka.ac.id/logout
107	http://akademik.uin-suka.ac.id/



LAMPIRAN II : RAMP TEST

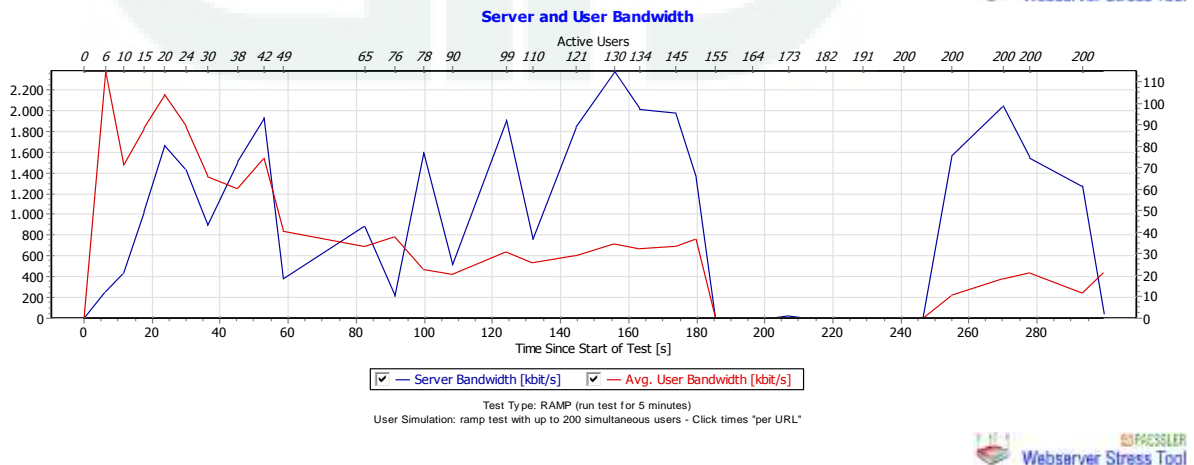
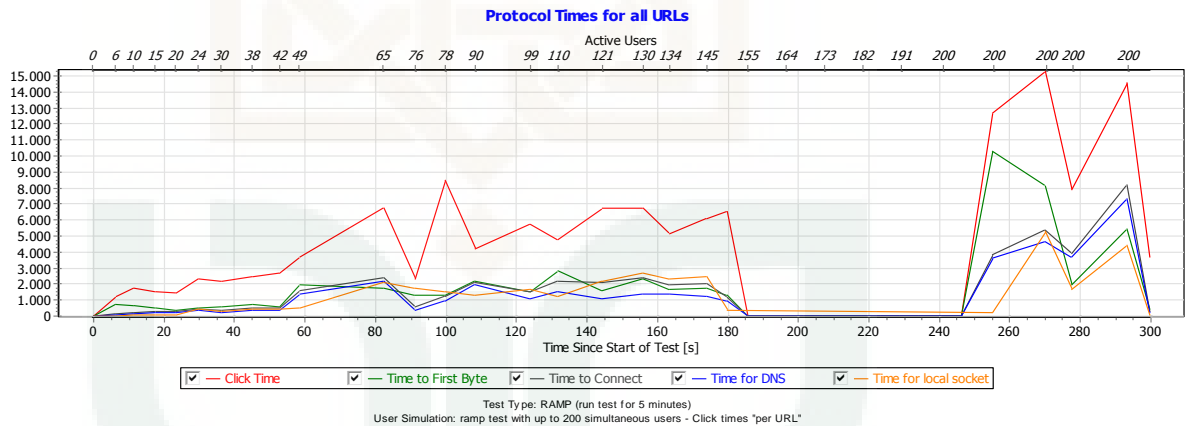
07/07/2016 2:24:33

Test Report

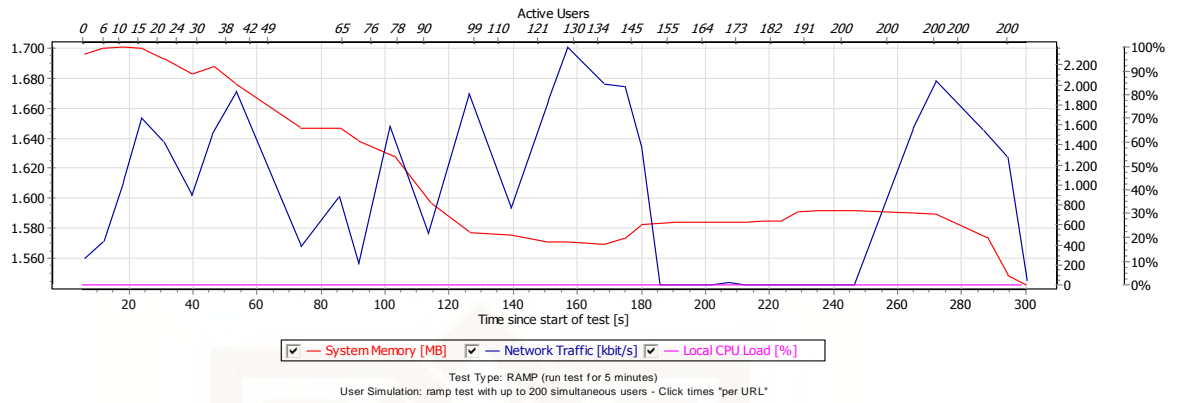
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

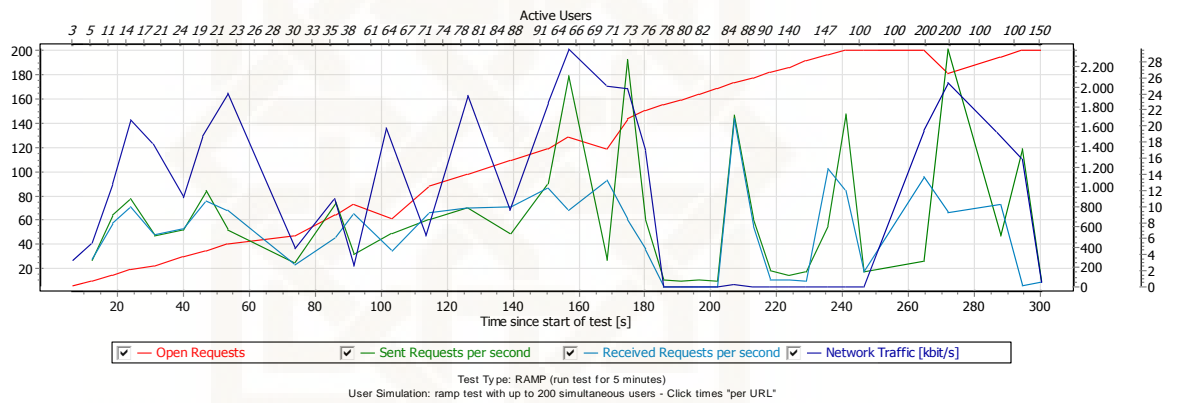
User Simulation: ramp test with up to 200 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

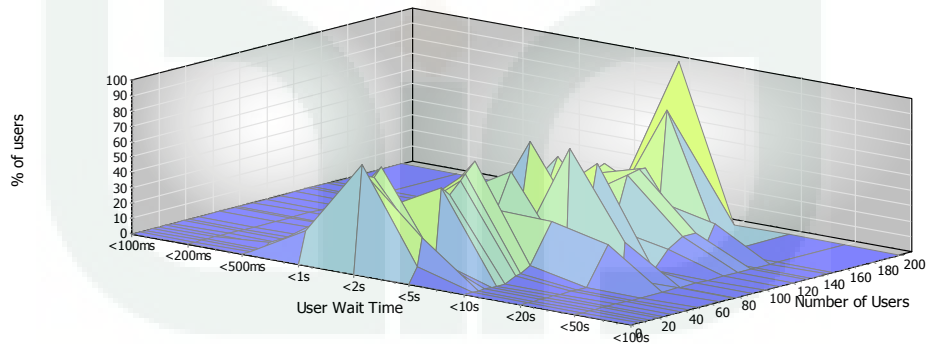


Open Requests & Transferred Data



Spectrum of Click Times

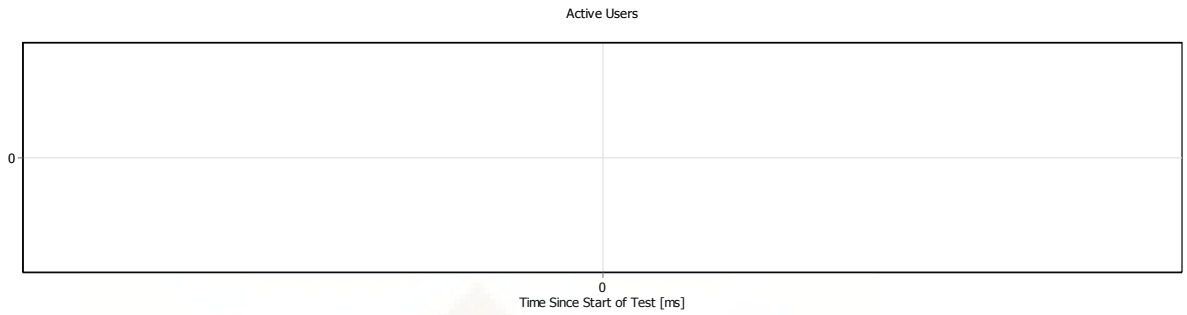
"How many users waited for how long under what load to complete a click?"



Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 200 simultaneous users - Click times "per URL"



Hierarchy and Times of All Hits
 Graph is disabled for more than 100 users!

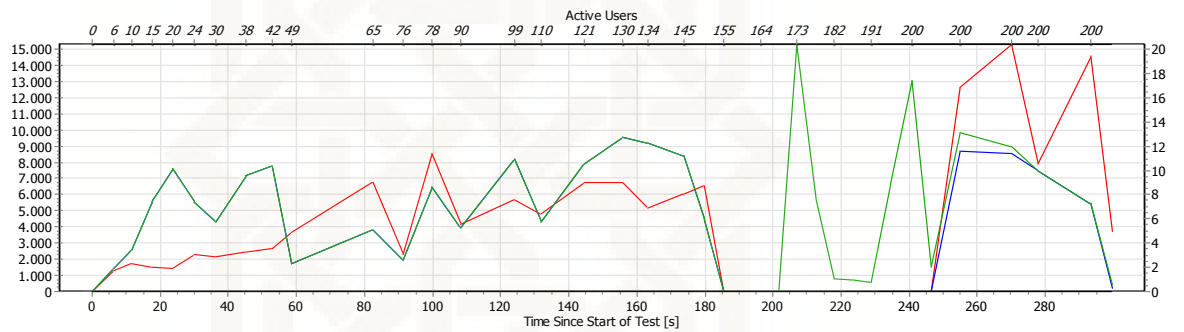


Pages
 Images
 Frames
 Errors

Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 200 simultaneous users - Click times "per URL"



Click Time, Hits/s, Users/s (all URLs)

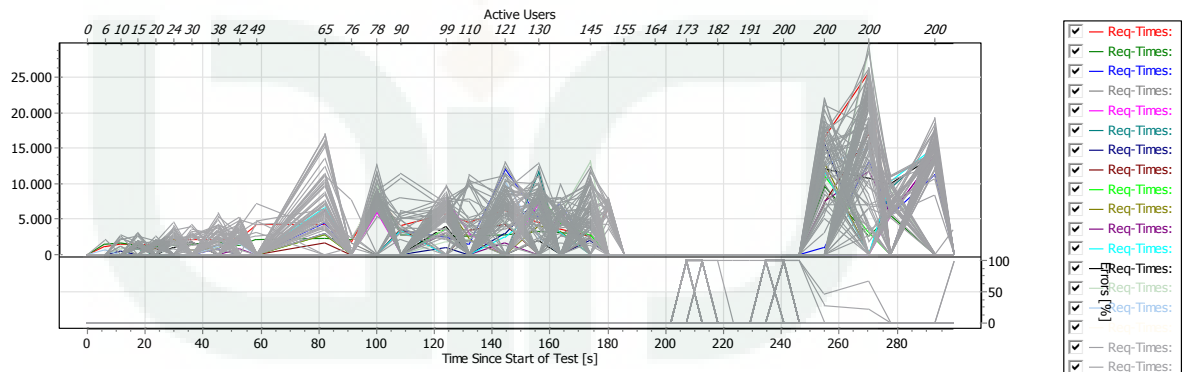


Click Time [ms]
 Clicks per Second
 Hits per Second

Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 200 simultaneous users - Click times "per URL"



Click Times and Errors (per URL)



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 200 simultaneous users - Click times "per URL"



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		200	48	24,00	760.598	5.004
2		200	30	15,00	563.207	3.313
3		20	3	15,00	100.687	5.923
4		19	3	15,79	86.368	5.398
5		15	1	6,67	92.805	6.629
6		22	5	22,73	116.565	6.857
7		15	0	0,00	75.899	5.060
8		16	3	18,75	76.944	5.919
9		19	1	5,26	101.756	5.653
10		17	2	11,76	61.297	4.086
11		20	1	5,00	99.376	5.230
12		16	2	12,50	93.013	6.644
13		13	2	15,38	80.760	7.342
14		20	3	15,00	107.807	6.342
15		21	4	19,05	159.948	9.409
16		20	2	10,00	131.924	7.329
17		23	4	17,39	122.754	6.461
18		22	3	13,64	116.244	6.118
19		14	1	7,14	91.820	7.063
20		16	1	6,25	129.664	8.644
21		16	3	18,75	107.554	8.273
22		14	0	0,00	102.854	7.347
23		16	3	18,75	141.723	10.902
24		22	4	18,18	148.061	8.226
25		16	3	18,75	107.668	8.282
26		19	2	10,53	97.743	5.750
27		10	1	10,00	48.133	5.348
28		14	1	7,14	76.750	5.904
29		15	2	13,33	87.534	6.733
30		9	0	0,00	46.101	5.122
31		15	1	6,67	99.204	7.086
32		20	2	10,00	125.050	6.947
33		23	2	8,70	159.103	7.576
34		19	4	21,05	133.252	8.883
35		16	5	31,25	115.683	10.517
36		20	3	15,00	115.696	6.806

37		23	2	8,70	200.020	9.525
38		23	4	17,39	153.329	8.070
39		10	1	10,00	69.719	7.747
40		20	2	10,00	144.910	8.051
41		20	5	25,00	100.423	6.695
42		16	2	12,50	98.279	7.020
43		26	6	23,08	168.386	8.419
44		21	3	14,29	152.577	8.476
45		23	2	8,70	222.017	10.572
46		18	5	27,78	96.946	7.457
47		20	1	5,00	150.308	7.911
48		13	3	23,08	78.675	7.867
49		18	6	33,33	101.972	8.498
50		21	2	9,52	127.961	6.735
51		19	0	0,00	192.390	10.126
52		22	4	18,18	137.143	7.619
53		13	3	23,08	108.554	10.855
54		19	3	15,79	157.188	9.824
55		15	2	13,33	84.905	6.531
56		16	5	31,25	94.348	8.577
57		25	6	24,00	136.833	7.202
58		19	3	15,79	81.493	5.093
59		18	3	16,67	136.648	9.110
60		14	3	21,43	76.121	6.920
61		19	5	26,32	109.986	7.856
62		20	3	15,00	105.461	6.204
63		20	6	30,00	117.100	8.364
64		28	2	7,14	179.685	6.911
65		20	1	5,00	114.443	6.023
66		19	6	31,58	109.350	8.412
67		14	3	21,43	109.121	9.920
68		20	1	5,00	162.453	8.550
69		23	4	17,39	151.639	7.981
70		16	0	0,00	119.222	7.451
71		14	2	14,29	112.412	9.368
72		22	4	18,18	126.637	7.035
73		16	6	37,50	85.513	8.551
74		20	2	10,00	183.408	10.189
75		14	2	14,29	80.498	6.708
76		12	1	8,33	79.092	7.190

77		19	4	21,05	139.941	9.329
78		15	5	33,33	107.425	10.742
79		11	3	27,27	63.862	7.983
80		16	2	12,50	148.175	10.584
81		17	4	23,53	94.011	7.232
82		13	3	23,08	65.313	6.531
83		15	4	26,67	90.465	8.224
84		9	2	22,22	77.933	11.133
85		16	1	6,25	156.088	10.406
86		12	1	8,33	74.652	6.787
87		15	1	6,67	102.628	7.331
88		17	3	17,65	85.349	6.096
89		22	4	18,18	141.482	7.860
90		19	1	5,26	155.681	8.649
91		20	4	20,00	153.838	9.615
92		22	5	22,73	167.555	9.856
93		20	2	10,00	132.265	7.348
94		13	2	15,38	118.853	10.805
95		15	3	20,00	92.258	7.688
96		15	1	6,67	114.647	8.189
97		15	2	13,33	106.975	8.229
98		13	4	30,77	79.649	8.850
99		11	3	27,27	59.738	7.467
100		12	2	16,67	91.421	9.142
101		8	3	37,50	47.887	9.577
102		16	1	6,25	121.992	8.133
103		14	1	7,14	99.361	7.643
104		18	4	22,22	110.729	7.909
105		16	1	6,25	138.522	9.235
106		18	2	11,11	56.542	3.534
107		16	3	18,75	77.098	5.931

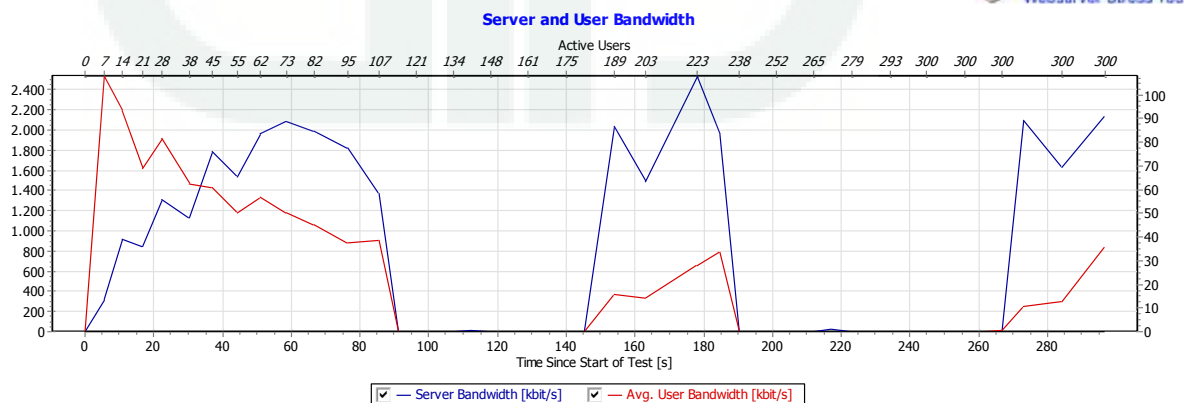
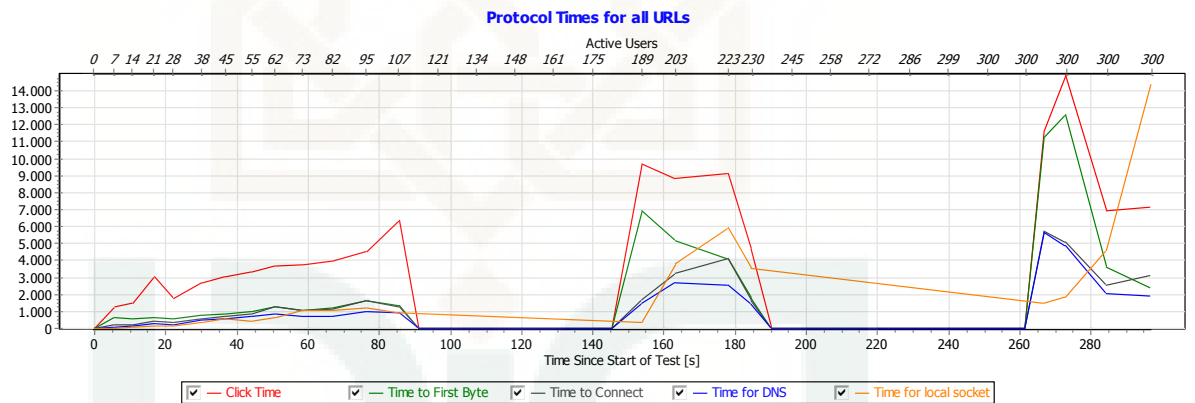
07/07/2016 2:46:55

Test Report

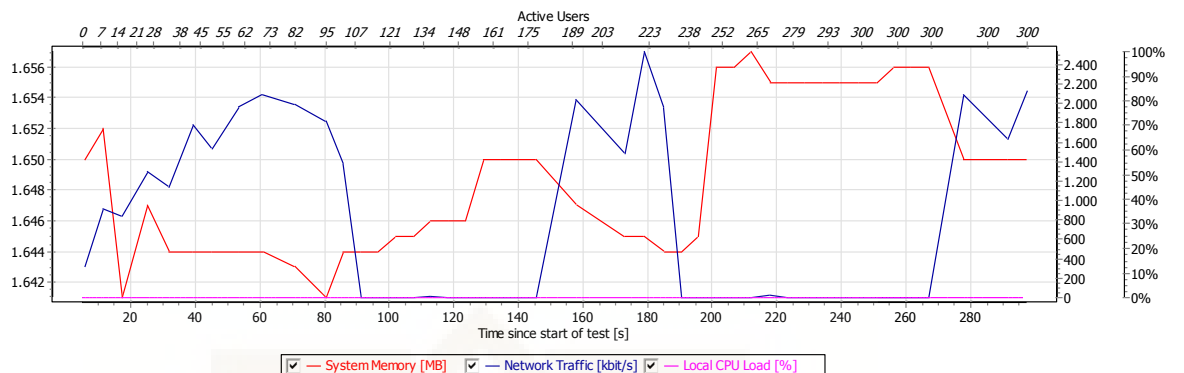
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

User Simulation: ramp test with up to 300 simultaneous users - Click times "per URL"



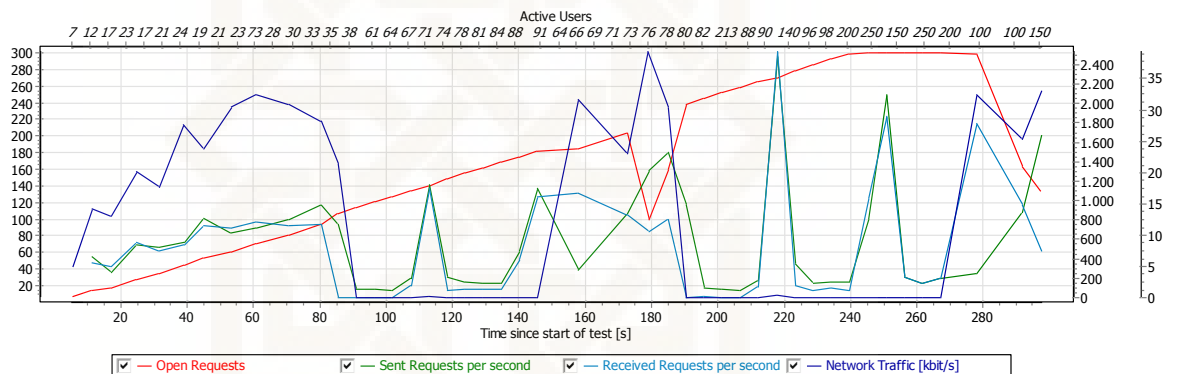
Transferred Data & System Memory & CPU Load



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 300 simultaneous users - Click times 'per URL'



Open Requests & Transferred Data

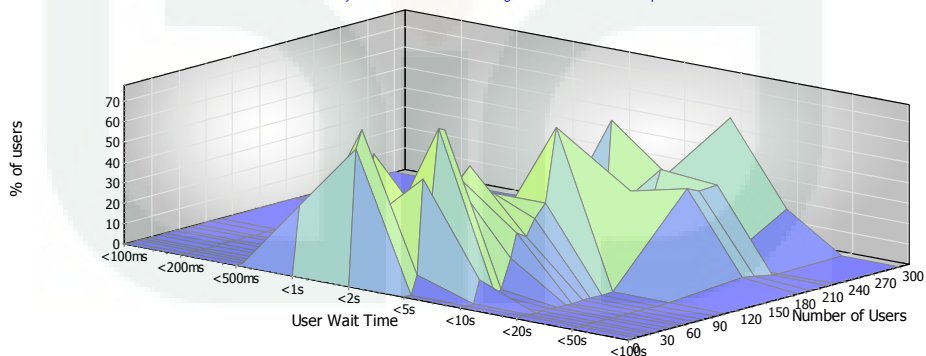


Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 300 simultaneous users - Click times 'per URL'



Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"

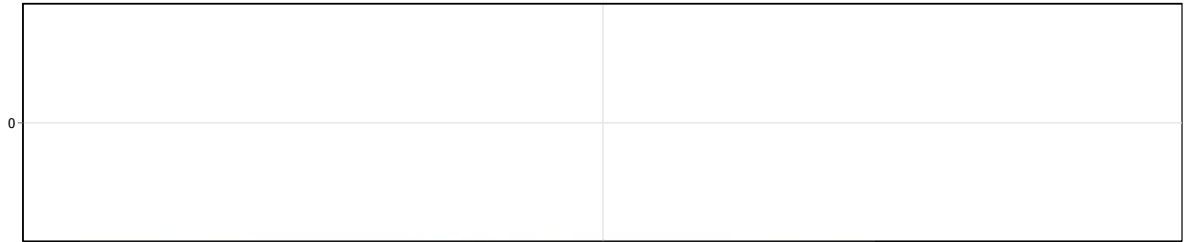


Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 300 simultaneous users - Click times 'per URL'



Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!

Active Users



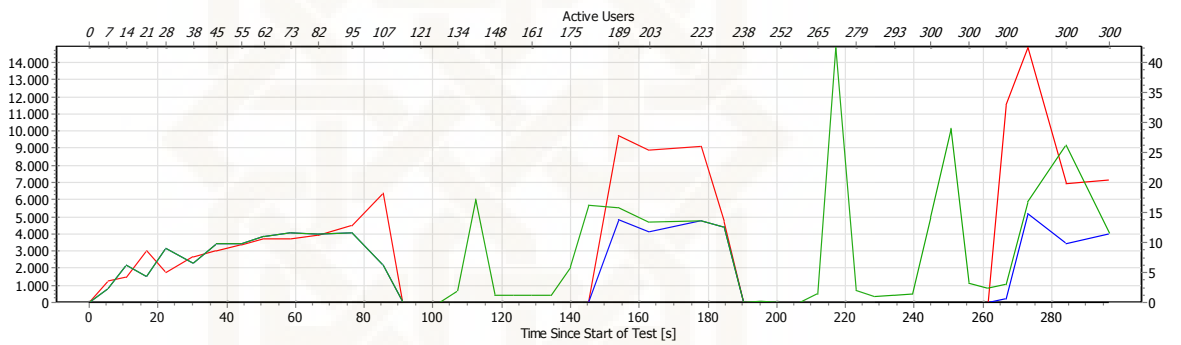
Time Since Start of Test [ms]

Pages Images Frames Errors

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 300 simultaneous users - Click times *per URL*



Click Time, Hits/s, Users/s (all URLs)

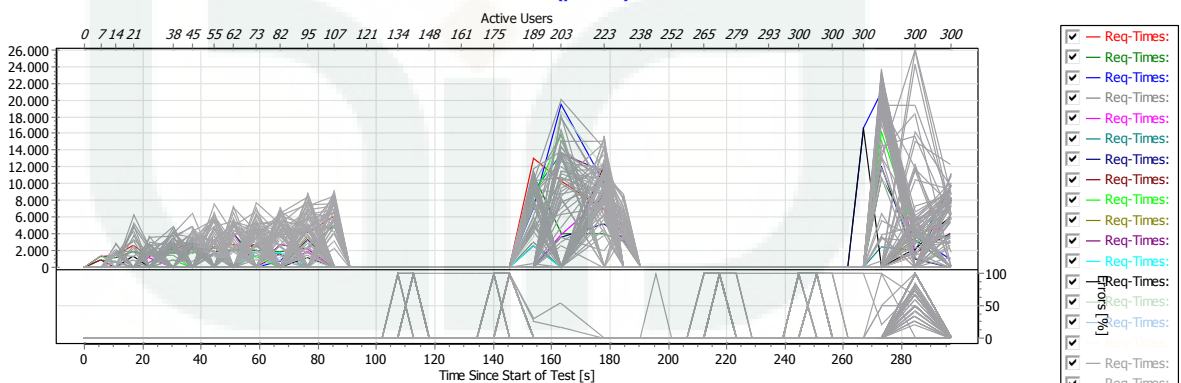


Click Time [ms] Clicks per Second Hits per Second

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 300 simultaneous users - Click times *per URL*



Click Times and Errors (per URL)



Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 300 simultaneous users - Click times *per URL*



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		300	142	47,33	839.215	5.311
2		300	102	34,00	931.153	4.703
3		20	9	45,00	97.801	8.891
4		17	6	35,29	45.230	4.112
5		19	10	52,63	52.675	5.853
6		22	7	31,82	63.178	4.212
7		21	10	47,62	64.678	5.880
8		25	12	48,00	65.924	5.071
9		14	7	50,00	49.837	7.120
10		15	5	33,33	48.134	4.813
11		24	12	50,00	55.854	4.655
12		19	9	47,37	77.044	7.704
13		22	7	31,82	78.664	5.244
14		20	4	20,00	79.165	4.948
15		11	5	45,45	30.736	5.123
16		16	4	25,00	44.347	3.696
17		17	3	17,65	82.347	5.882
18		13	9	69,23	8.297	2.074
19		22	5	22,73	112.089	6.593
20		19	5	26,32	81.294	5.807
21		14	5	35,71	49.523	5.503
22		34	14	41,18	127.626	6.381
23		19	11	57,89	61.425	7.678
24		19	11	57,89	48.660	6.082
25		19	8	42,11	87.155	7.923
26		17	9	52,94	41.158	5.145
27		18	8	44,44	85.664	8.566
28		19	5	26,32	82.922	5.923
29		21	9	42,86	58.051	4.838
30		26	11	42,31	103.593	6.906
31		23	6	26,09	144.681	8.511
32		19	5	26,32	75.827	5.416
33		22	11	50,00	111.892	10.172
34		23	9	39,13	83.292	5.949
35		16	3	18,75	74.210	5.708
36		26	13	50,00	129.505	9.962

37		21	7	33,33	104.478	7.463
38		24	9	37,50	82.731	5.515
39		5	1	20,00	27.214	6.804
40		22	7	31,82	87.287	5.819
41		24	11	45,83	88.828	6.833
42		19	8	42,11	62.286	5.662
43		17	5	29,41	112.235	9.353
44		21	12	57,14	51.837	5.760
45		21	8	38,10	74.226	5.710
46		18	6	33,33	90.552	7.546
47		19	8	42,11	78.491	7.136
48		13	6	46,15	44.676	6.382
49		23	6	26,09	151.508	8.912
50		23	9	39,13	80.543	5.753
51		20	9	45,00	70.297	6.391
52		19	7	36,84	65.450	5.454
53		17	4	23,53	86.536	6.657
54		17	8	47,06	39.321	4.369
55		21	5	23,81	133.484	8.343
56		14	3	21,43	111.840	10.167
57		24	8	33,33	94.427	5.902
58		15	9	60,00	28.183	4.697
59		22	9	40,91	92.528	7.118
60		26	4	15,38	175.064	7.957
61		19	10	52,63	49.351	5.483
62		19	5	26,32	108.792	7.771
63		24	9	37,50	110.279	7.352
64		21	8	38,10	87.196	6.707
65		25	9	36,00	63.740	3.984
66		20	11	55,00	58.502	6.500
67		20	6	30,00	119.989	8.571
68		17	7	41,18	59.043	5.904
69		14	6	42,86	77.172	9.647
70		20	6	30,00	97.294	6.950
71		22	9	40,91	88.902	6.839
72		21	10	47,62	95.847	8.713
73		18	11	61,11	67.860	9.694
74		18	9	50,00	89.377	9.931
75		27	10	37,04	97.735	5.749
76		24	10	41,67	81.823	5.844

77		22	10	45,45	110.778	9.231
78		14	5	35,71	60.050	6.672
79		11	7	63,64	29.458	7.364
80		16	7	43,75	67.386	7.487
81		15	6	40,00	60.843	6.760
82		20	8	40,00	117.175	9.765
83		19	9	47,37	79.946	7.995
84		26	11	42,31	94.286	6.286
85		23	8	34,78	92.980	6.199
86		13	6	46,15	42.269	6.038
87		13	8	61,54	47.609	9.522
88		21	10	47,62	118.071	10.734
89		15	6	40,00	63.675	7.075
90		20	9	45,00	86.852	7.896
91		18	6	33,33	97.032	8.086
92		19	5	26,32	124.172	8.869
93		22	7	31,82	94.625	6.308
94		16	6	37,50	68.499	6.850
95		21	8	38,10	94.567	7.274
96		19	7	36,84	83.889	6.991
97		17	3	17,65	89.283	6.377
98		20	8	40,00	63.644	5.304
99		16	3	18,75	105.283	8.099
100		18	6	33,33	80.136	6.678
101		13	5	38,46	76.993	9.624
102		21	11	52,38	81.984	8.198
103		17	3	17,65	138.925	9.923
104		17	8	47,06	77.089	8.565
105		25	14	56,00	85.957	7.814
106		25	11	44,00	19.453	1.389
107		18	3	16,67	86.623	5.775

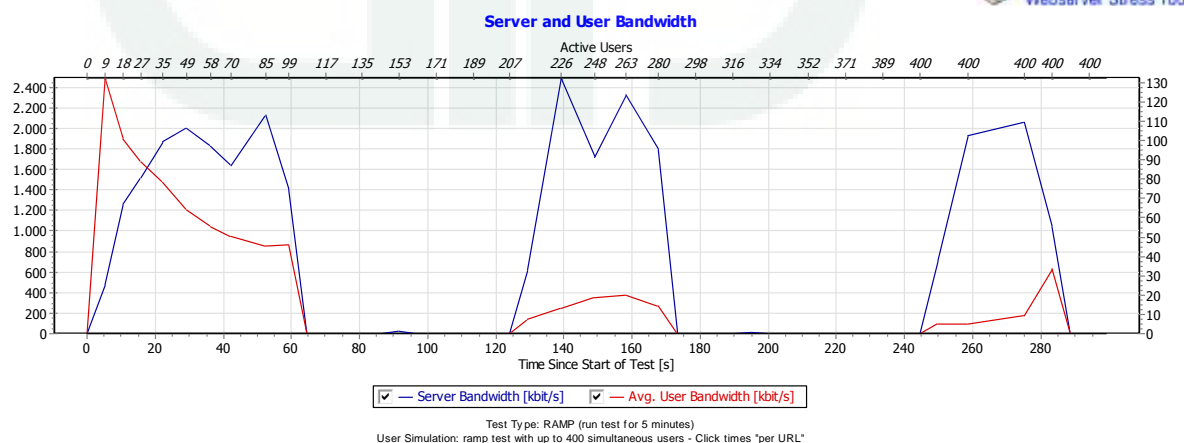
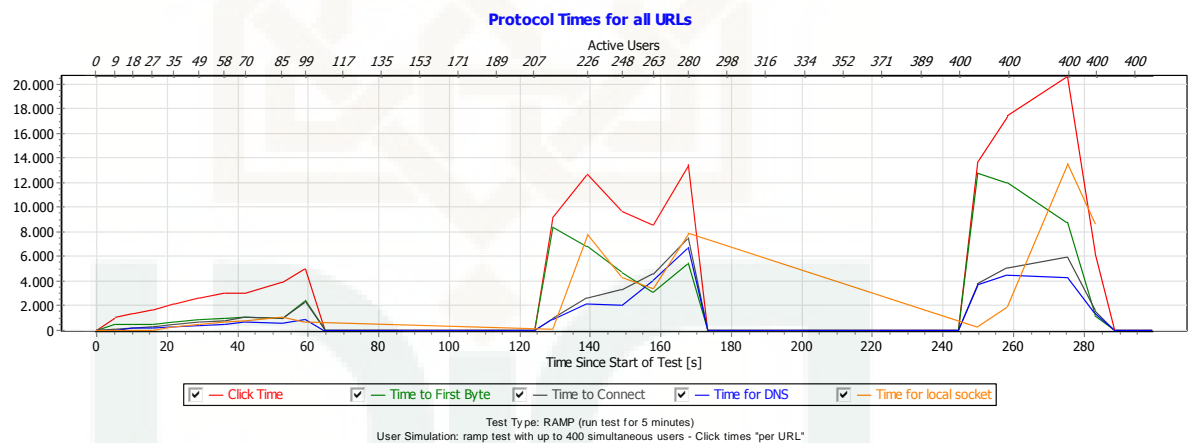
07/07/2016 3:11:17

Test Report

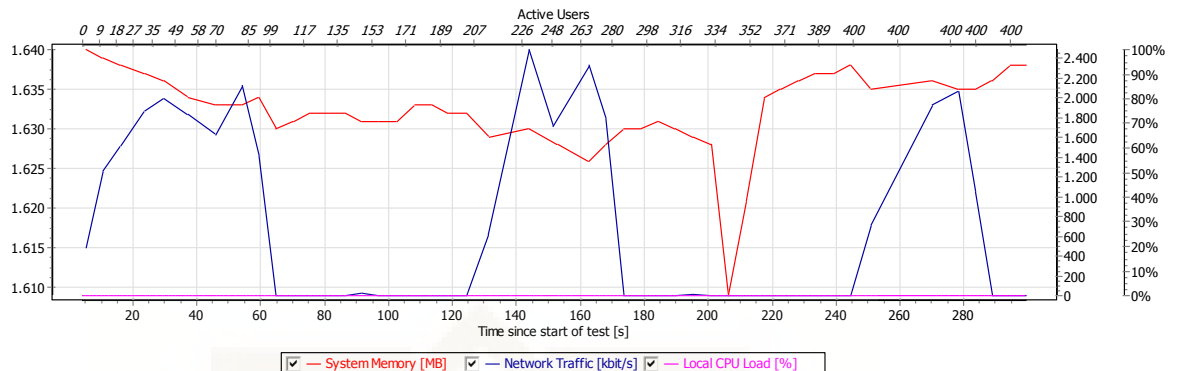
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

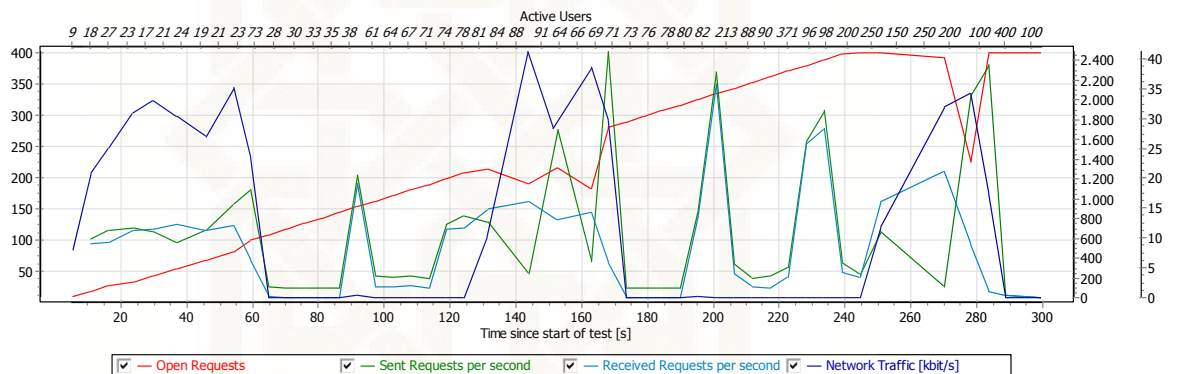
User Simulation: ramp test with up to 400 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

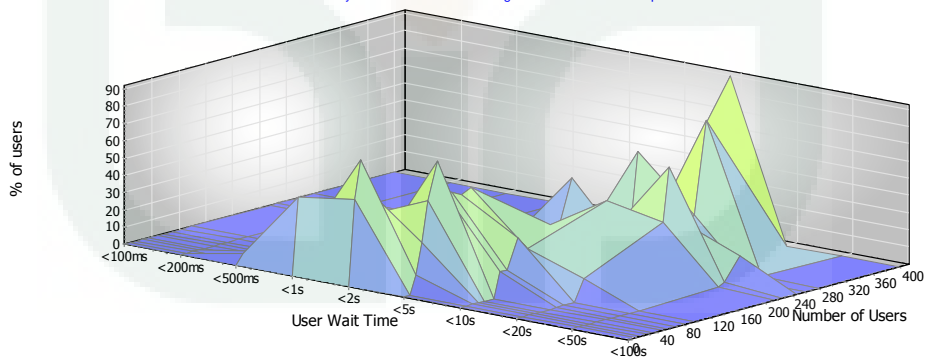


Open Requests & Transferred Data



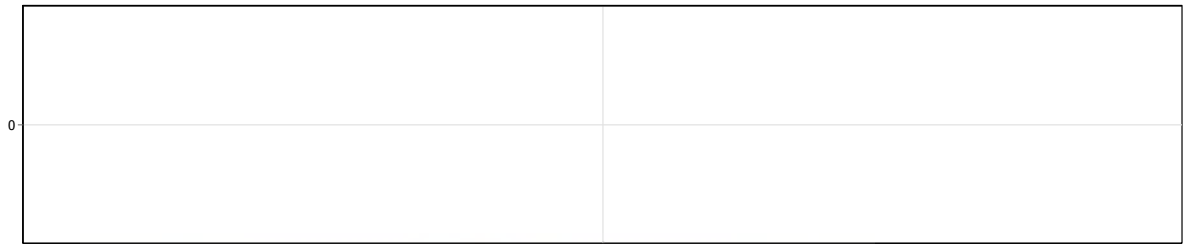
Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



Hierarchy and Times of All Hits Graph is disabled for more than 100 users!

Active Users



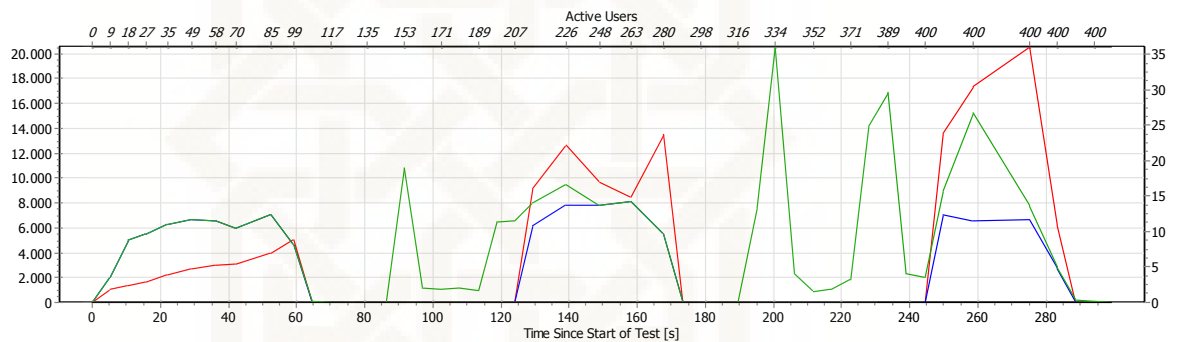
Time Since Start of Test [ms]

- Pages
- Images
- Frames
- Errors

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 400 simultaneous users - Click times *per URL*



Click Time, Hits/s, Users/s (all URLs)

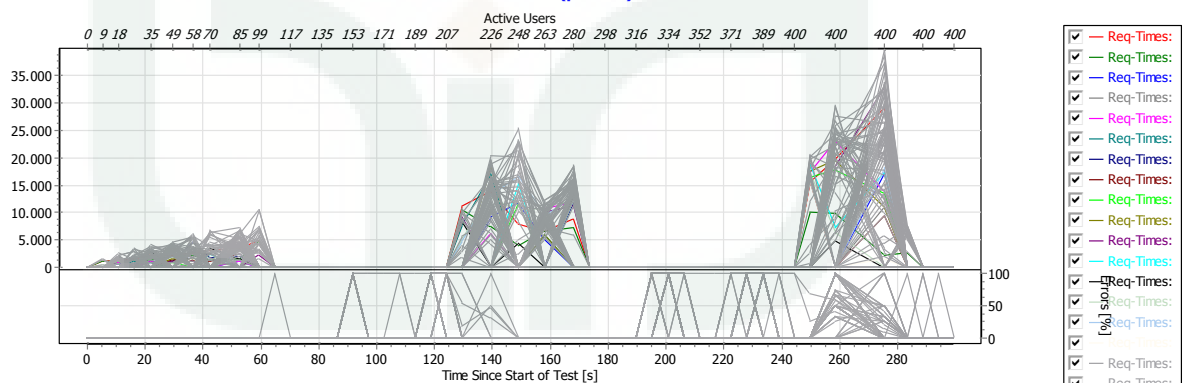


- Click Time [ms]
- Clicks per Second
- Hits per Second

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 400 simultaneous users - Click times *per URL*



Click Times and Errors (per URL)



- Req-Times: [Red]
- Req-Times: [Green]
- Req-Times: [Blue]
- Req-Times: [Grey]
- Req-Times: [Magenta]
- Req-Times: [Teal]
- Req-Times: [Dark Blue]
- Req-Times: [Brown]
- Req-Times: [Light Green]
- Req-Times: [Olive]
- Req-Times: [Purple]
- Req-Times: [Cyan]
- Req-Times: [Black]
- Req-Times: [Dark Grey]
- Req-Times: [Light Grey]
- Req-Times: [White]
- Errors [%]

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 400 simultaneous users - Click times *per URL*



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		400	213	53,25	1.456.189	7.787
2		391	141	36,06	1.346.437	5.386
3		25	12	48,00	93.951	7.227
4		15	6	40,00	74.720	8.302
5		27	12	44,44	165.103	11.007
6		14	7	50,00	39.443	5.635
7		15	6	40,00	27.750	3.083
8		16	7	43,75	47.845	5.316
9		23	15	65,22	95.723	11.965
10		20	10	50,00	89.369	8.937
11		21	13	61,90	86.281	10.785
12		14	6	42,86	111.139	13.892
13		17	7	41,18	45.976	4.598
14		24	10	41,67	109.718	7.837
15		26	12	46,15	144.579	10.327
16		18	7	38,89	74.321	6.756
17		13	2	15,38	77.146	7.013
18		17	5	29,41	111.463	9.289
19		24	11	45,83	144.172	11.090
20		17	6	35,29	105.109	9.555
21		15	10	66,67	31.411	6.282
22		23	7	30,43	153.754	9.610
23		17	8	47,06	107.828	11.981
24		18	9	50,00	120.970	13.441
25		16	8	50,00	141.856	17.732
26		15	8	53,33	65.619	9.374
27		20	8	40,00	85.741	7.145
28		20	6	30,00	47.529	3.395
29		18	6	33,33	109.059	9.088
30		19	14	73,68	32.171	6.434
31		14	4	28,57	155.512	15.551
32		18	8	44,44	113.963	11.396
33		18	9	50,00	70.736	7.860
34		19	5	26,32	111.734	7.981
35		19	5	26,32	142.154	10.154
36		18	13	72,22	57.679	11.536

37		11	3	27,27	78.085	9.761
38		19	8	42,11	144.585	13.144
39		18	6	33,33	174.954	14.579
40		19	6	31,58	144.866	11.144
41		16	8	50,00	71.592	8.949
42		17	6	35,29	109.336	9.940
43		13	6	46,15	64.015	9.145
44		19	4	21,05	153.411	10.227
45		14	11	78,57	64.575	21.525
46		14	7	50,00	110.843	15.835
47		21	13	61,90	55.065	6.883
48		25	10	40,00	135.300	9.020
49		8	6	75,00	7.146	3.573
50		15	7	46,67	170.845	21.356
51		24	7	29,17	184.389	10.846
52		21	10	47,62	105.640	9.604
53		21	8	38,10	133.676	10.283
54		27	15	55,56	129.826	10.819
55		13	3	23,08	102.190	10.219
56		17	10	58,82	84.849	12.121
57		13	4	30,77	60.031	6.670
58		16	8	50,00	85.994	10.749
59		21	8	38,10	135.974	10.460
60		19	7	36,84	104.306	8.692
61		27	9	33,33	217.356	12.075
62		17	8	47,06	98.187	10.910
63		19	8	42,11	135.088	12.281
64		16	7	43,75	102.866	11.430
65		22	6	27,27	199.322	12.458
66		21	4	19,05	236.917	13.936
67		14	6	42,86	103.082	12.885
68		18	8	44,44	106.228	10.623
69		20	7	35,00	191.398	14.723
70		17	5	29,41	151.329	12.611
71		15	7	46,67	55.125	6.891
72		14	7	50,00	91.523	13.075
73		15	5	33,33	139.497	13.950
74		18	9	50,00	97.745	10.861
75		19	7	36,84	220.154	18.346
76		26	11	42,31	257.142	17.143

77		21	7	33,33	124.459	8.890
78		21	6	28,57	166.434	11.096
79		14	3	21,43	135.280	12.298
80		14	10	71,43	97.956	24.489
81		17	5	29,41	125.126	10.427
82		24	13	54,17	103.544	9.413
83		13	5	38,46	74.542	9.318
84		18	7	38,89	136.106	12.373
85		23	8	34,78	182.133	12.142
86		12	5	41,67	49.826	7.118
87		15	7	46,67	154.347	19.293
88		16	7	43,75	79.517	8.835
89		17	7	41,18	76.026	7.603
90		20	14	70,00	105.540	17.590
91		21	9	42,86	116.271	9.689
92		13	5	38,46	162.067	20.258
93		19	6	31,58	131.287	10.099
94		21	6	28,57	145.262	9.684
95		21	11	52,38	89.219	8.922
96		17	6	35,29	98.994	8.999
97		18	6	33,33	140.038	11.670
98		18	7	38,89	103.481	9.407
99		16	9	56,25	95.142	13.592
100		24	13	54,17	106.020	9.638
101		16	6	37,50	62.671	6.267
102		19	8	42,11	124.940	11.358
103		20	11	55,00	99.794	11.088
104		18	7	38,89	154.516	14.047
105		20	9	45,00	146.997	13.363
106		28	9	32,14	110.313	5.806
107		15	3	20,00	84.062	7.005

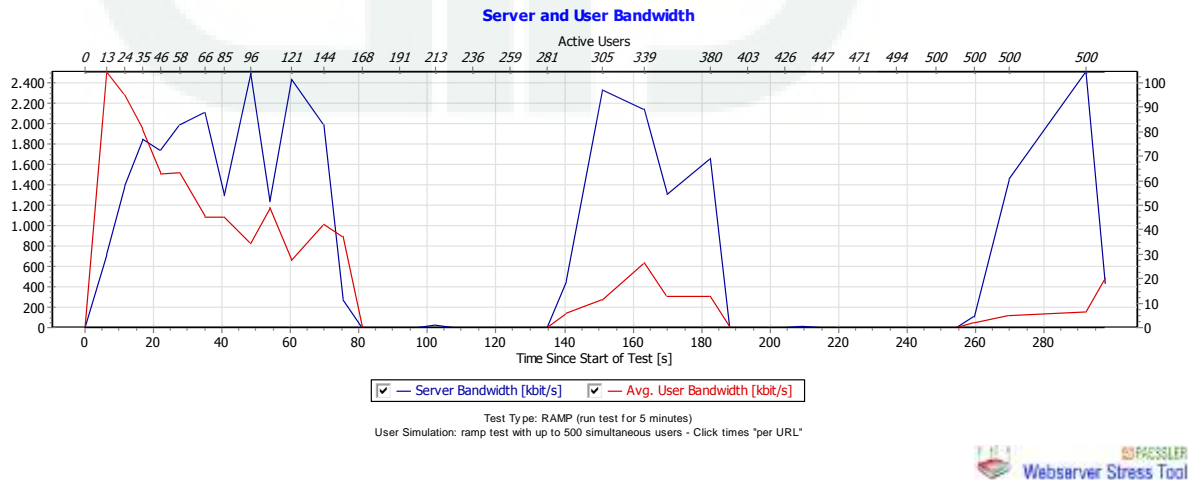
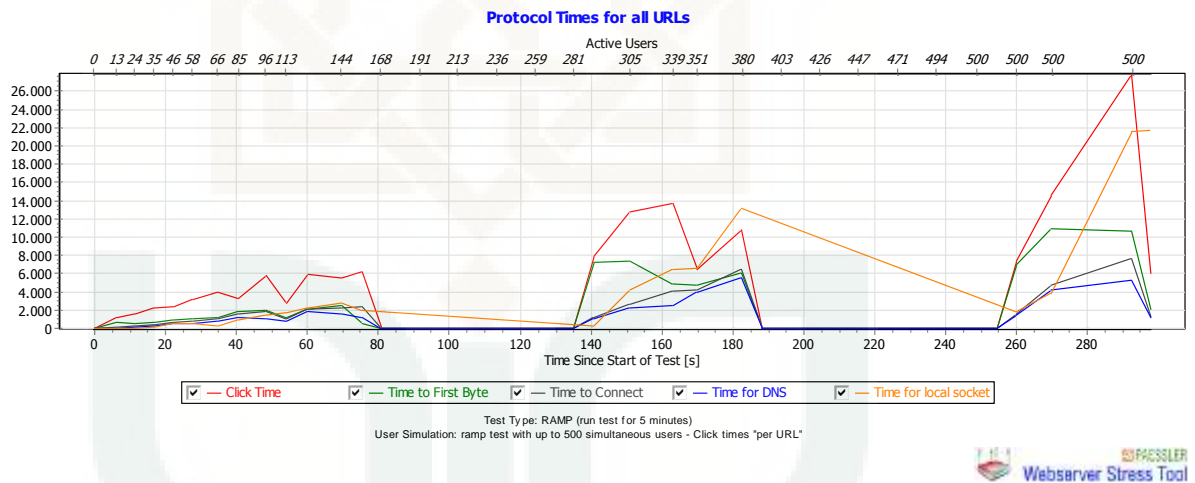
07/07/2016 3:26:34

Test Report

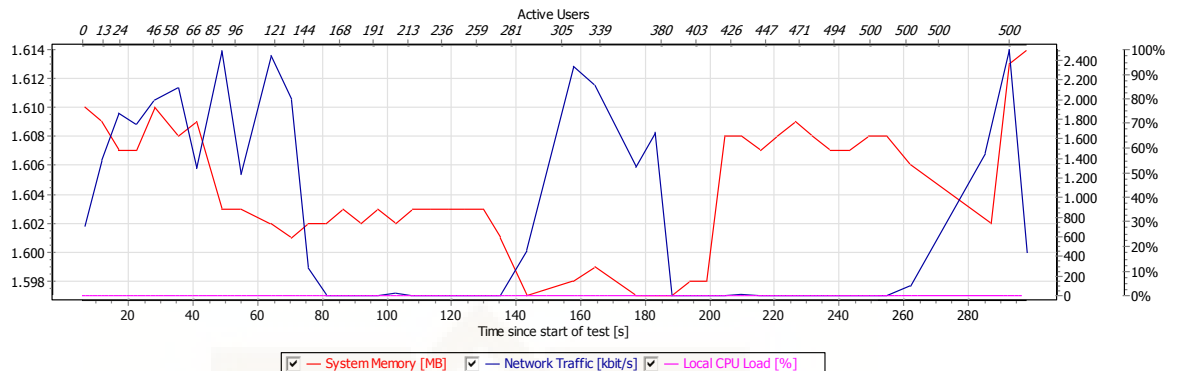
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

User Simulation: ramp test with up to 500 simultaneous users - Click times "per URL"



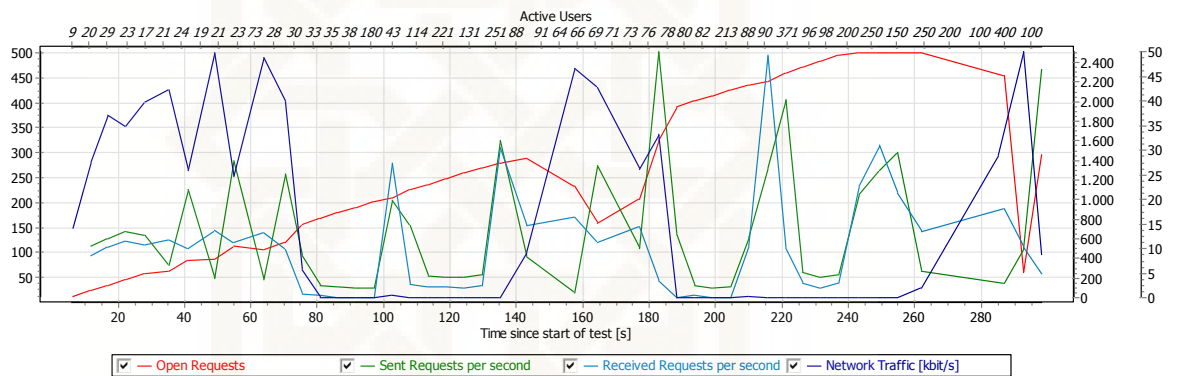
Transferred Data & System Memory & CPU Load



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 500 simultaneous users - Click times 'per URL'



Open Requests & Transferred Data

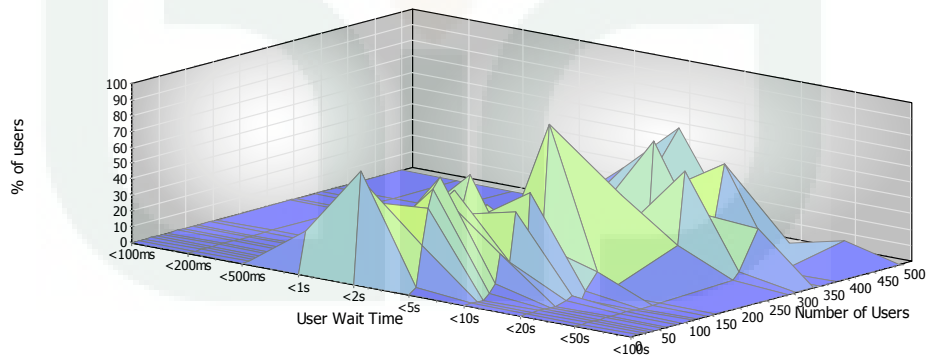


Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 500 simultaneous users - Click times 'per URL'



Spectrum of Click Times

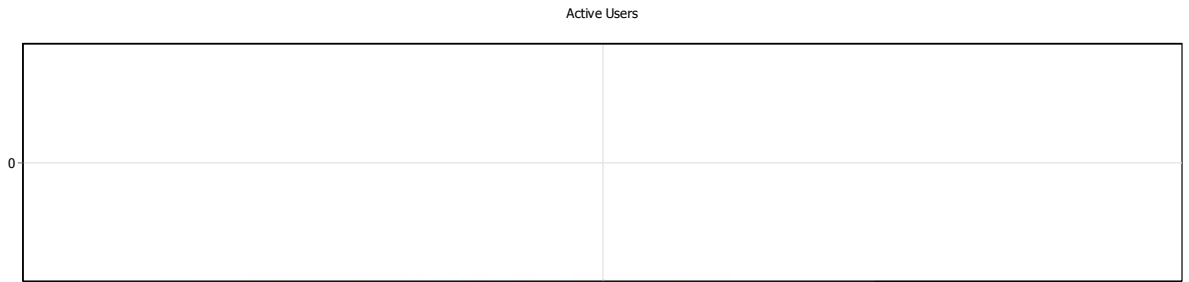
"How many users waited for how long under what load to complete a click?"



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 500 simultaneous users - Click times 'per URL'



Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!

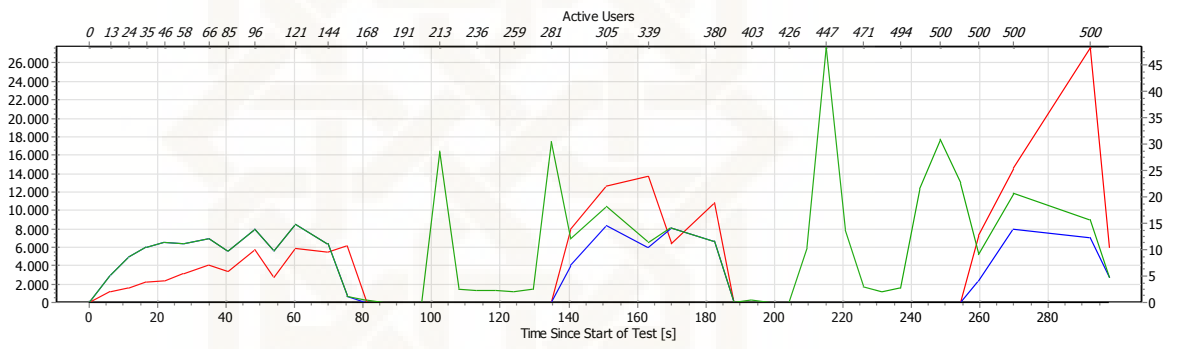


Pages Images Frames Errors

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 500 simultaneous users - Click times *per URL*



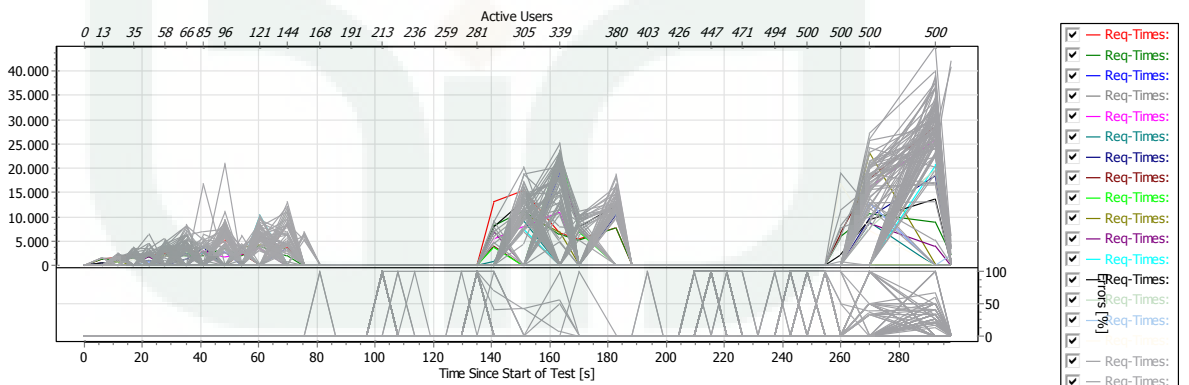
Click Time, Hits/s, Users/s (all URLs)



Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 500 simultaneous users - Click times *per URL*



Click Times and Errors (per URL)



Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 500 simultaneous users - Click times *per URL*



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		500	270	54,00	1.300.354	5.654
2		500	182	36,40	1.775.557	5.584
3		19	10	52,63	73.838	8.204
4		15	6	40,00	41.344	4.594
5		32	15	46,88	172.989	10.176
6		25	16	64,00	73.615	8.179
7		20	10	50,00	59.106	5.911
8		21	9	42,86	191.527	15.961
9		14	7	50,00	45.566	6.509
10		23	11	47,83	100.458	8.371
11		19	10	52,63	69.205	7.689
12		20	11	55,00	111.594	12.399
13		22	9	40,91	103.330	7.948
14		16	9	56,25	71.812	10.259
15		17	9	52,94	58.734	7.342
16		16	5	31,25	76.230	6.930
17		19	12	63,16	71.618	10.231
18		19	9	47,37	102.590	10.259
19		22	11	50,00	144.460	13.133
20		23	9	39,13	177.804	12.700
21		24	9	37,50	213.870	14.258
22		21	11	52,38	115.502	11.550
23		24	14	58,33	124.741	12.474
24		21	4	19,05	204.801	12.047
25		19	8	42,11	124.938	11.358
26		22	5	22,73	163.180	9.599
27		26	13	50,00	179.836	13.834
28		19	11	57,89	94.185	11.773
29		22	9	40,91	89.758	6.904
30		22	7	31,82	253.277	16.885
31		30	16	53,33	175.055	12.504
32		18	7	38,89	170.117	15.465
33		24	9	37,50	290.761	19.384
34		17	3	17,65	128.037	9.146
35		21	13	61,90	122.346	15.293
36		18	8	44,44	108.435	10.843

37		27	11	40,74	307.535	19.221
38		22	10	45,45	108.555	9.046
39		26	12	46,15	177.786	12.699
40		26	10	38,46	202.348	12.647
41		23	13	56,52	124.533	12.453
42		27	13	48,15	205.901	14.707
43		27	16	59,26	108.820	9.893
44		18	8	44,44	105.546	10.555
45		18	8	44,44	185.779	18.578
46		25	14	56,00	126.097	11.463
47		24	12	50,00	136.230	11.352
48		24	11	45,83	203.108	15.624
49		18	10	55,56	105.192	13.149
50		21	17	80,95	65.829	16.457
51		20	14	70,00	141.394	23.566
52		21	13	61,90	96.983	12.123
53		13	6	46,15	51.359	7.337
54		25	15	60,00	156.087	15.609
55		32	16	50,00	206.732	12.921
56		26	7	26,92	298.009	15.685
57		26	10	38,46	215.293	13.456
58		15	9	60,00	42.325	7.054
59		26	16	61,54	126.043	12.604
60		30	12	40,00	227.885	12.660
61		21	12	57,14	113.757	12.640
62		14	6	42,86	158.762	19.845
63		19	10	52,63	146.487	16.276
64		27	13	48,15	156.534	11.181
65		24	12	50,00	96.133	8.011
66		25	12	48,00	174.658	13.435
67		24	12	50,00	179.906	14.992
68		24	10	41,67	205.502	14.679
69		14	8	57,14	76.847	12.808
70		17	8	47,06	130.699	14.522
71		21	9	42,86	227.318	18.943
72		25	7	28,00	258.767	14.376
73		19	8	42,11	168.621	15.329
74		16	6	37,50	96.456	9.646
75		24	13	54,17	155.367	14.124
76		22	9	40,91	260.459	20.035

77		28	13	46,43	219.580	14.639
78		22	6	27,27	275.402	17.213
79		25	9	36,00	198.624	12.414
80		24	11	45,83	171.661	13.205
81		22	15	68,18	98.855	14.122
82		21	8	38,10	165.787	12.753
83		15	9	60,00	68.368	11.395
84		16	8	50,00	139.382	17.423
85		31	16	51,61	151.684	10.112
86		18	7	38,89	194.585	17.690
87		23	10	43,48	146.634	11.280
88		21	12	57,14	96.018	10.669
89		18	8	44,44	173.017	17.302
90		17	10	58,82	101.295	14.471
91		20	9	45,00	132.426	12.039
92		24	8	33,33	182.389	11.399
93		23	10	43,48	163.149	12.550
94		15	5	33,33	161.628	16.163
95		24	7	29,17	209.529	12.325
96		19	8	42,11	168.285	15.299
97		26	12	46,15	202.091	14.435
98		21	8	38,10	186.082	14.314
99		33	19	57,58	222.540	15.896
100		18	5	27,78	191.325	14.717
101		20	6	30,00	228.952	16.354
102		24	13	54,17	192.247	17.477
103		23	10	43,48	257.249	19.788
104		19	7	36,84	250.497	20.875
105		18	4	22,22	185.882	13.277
106		27	11	40,74	101.240	6.328
107		19	6	31,58	222.736	17.134

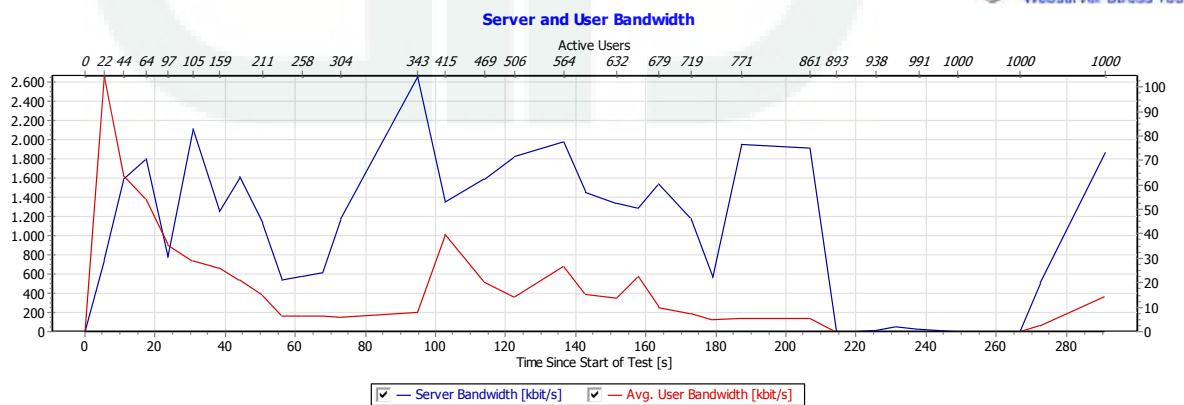
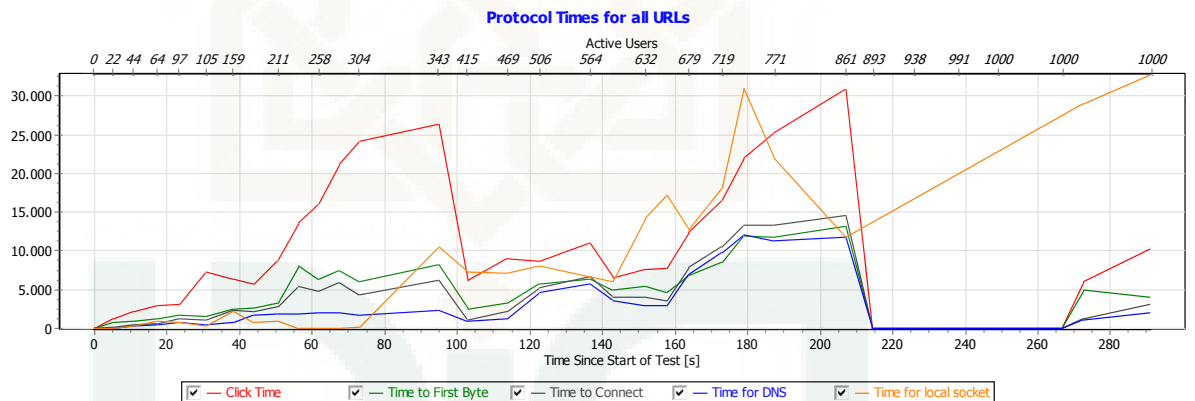
07/07/2016 6:28:00

Test Report

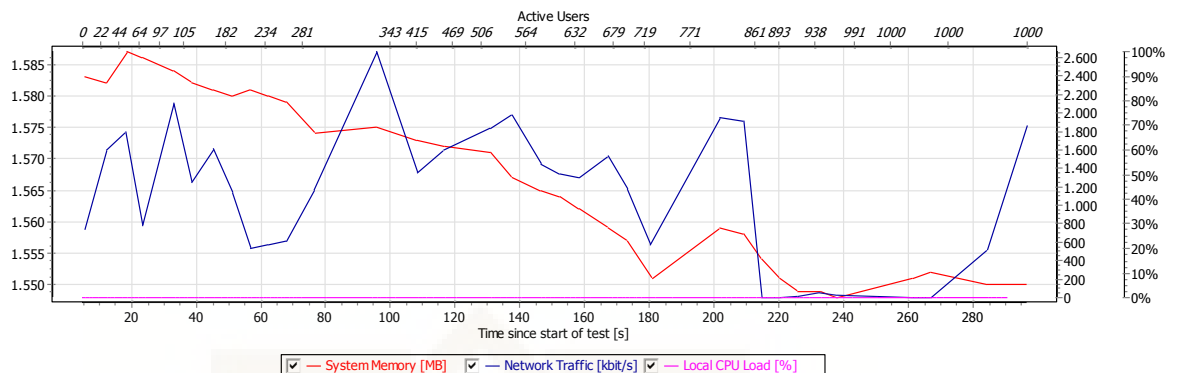
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

User Simulation: ramp test with up to 1.000 simultaneous users - Click times "per URL"



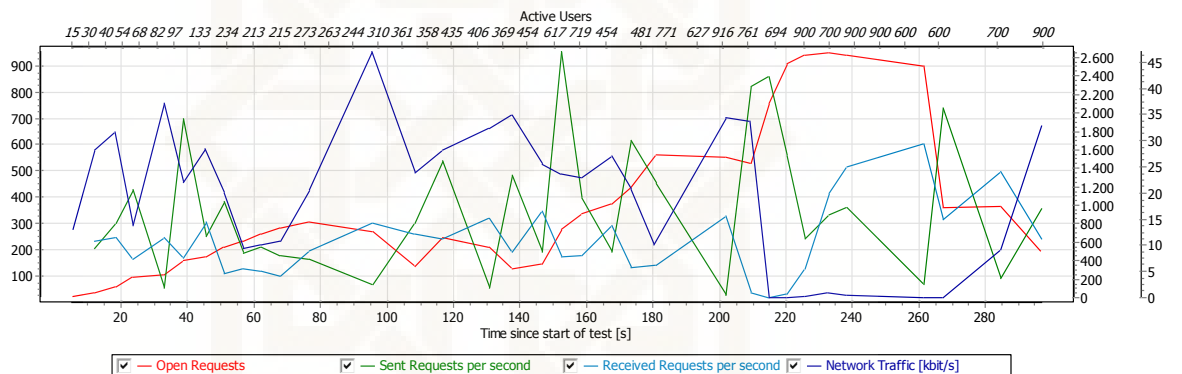
Transferred Data & System Memory & CPU Load



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 1.000 simultaneous users - Click times "per URL"



Open Requests & Transferred Data

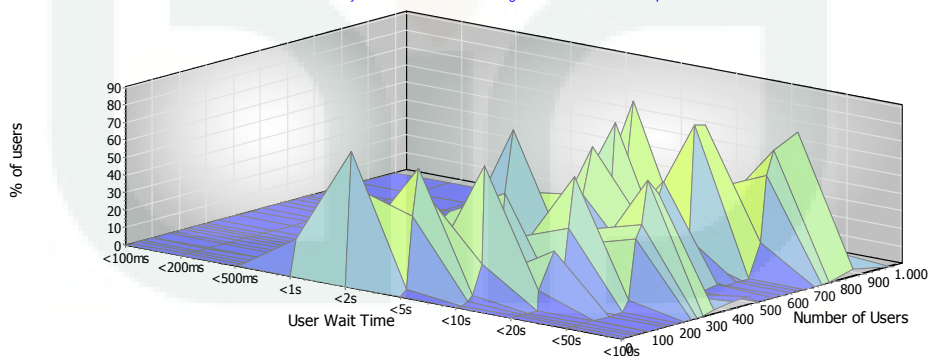


Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 1.000 simultaneous users - Click times "per URL"



Spectrum of Click Times

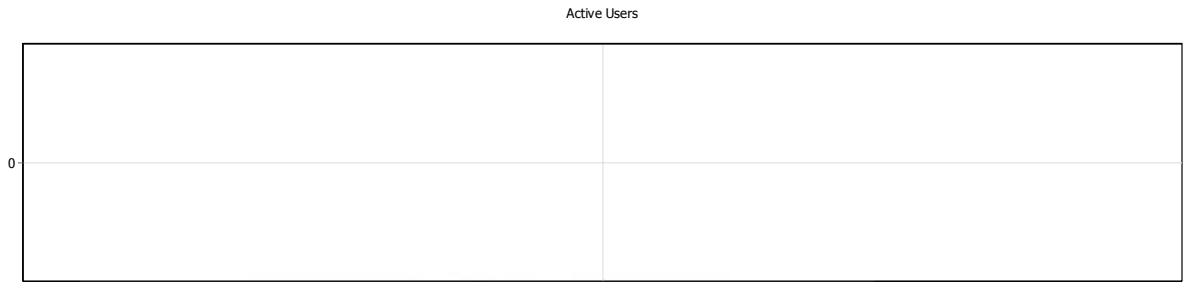
"How many users waited for how long under what load to complete a click?"



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 1.000 simultaneous users - Click times "per URL"



Hierarchy and Times of All Hits Graph is disabled for more than 100 users!



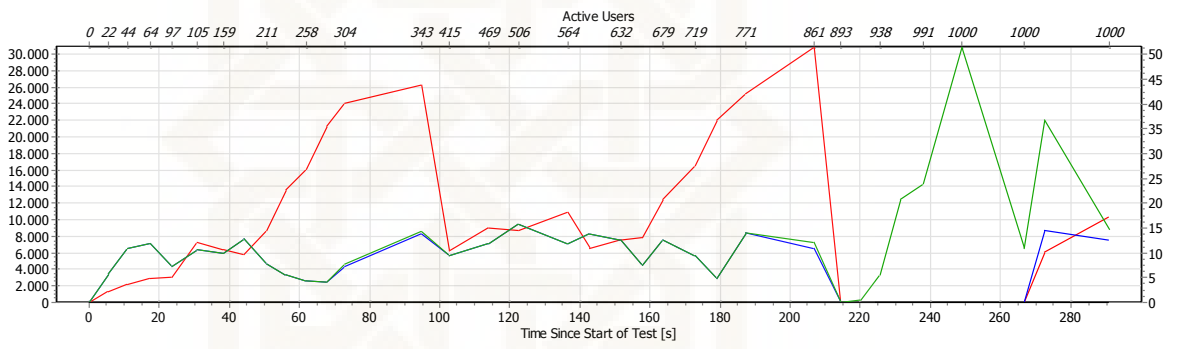
Time Since Start of Test [ms]

Pages Images Frames Errors

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 1.000 simultaneous users - Click times 'per URL'



Click Time, Hits/s, Users/s (all URLs)



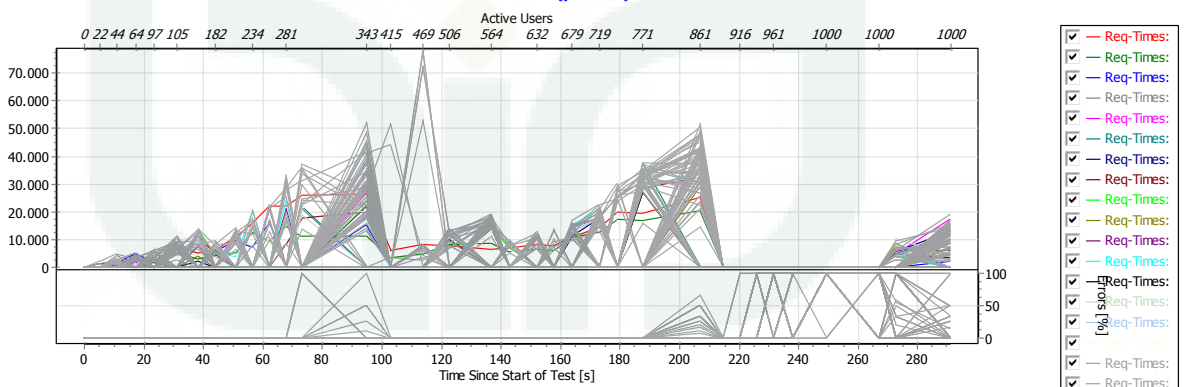
Time Since Start of Test [s]

Click Time [ms] Clicks per Second Hits per Second

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 1.000 simultaneous users - Click times 'per URL'



Click Times and Errors (per URL)



Time Since Start of Test [s]

Test Type: RAMP (run test for 5 minutes)
User Simulation: ramp test with up to 1.000 simultaneous users - Click times 'per URL'



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		1.000	274	27,40	9.210.412	12.687
2		897	230	25,64	5.220.001	7.826
3		22	6	27,27	180.506	11.282
4		20	8	40,00	186.250	15.521
5		22	9	40,91	216.993	16.692
6		19	8	42,11	147.462	13.406
7		17	6	35,29	97.613	8.874
8		27	11	40,74	263.635	16.477
9		26	9	34,62	208.145	12.244
10		19	8	42,11	101.202	9.200
11		13	6	46,15	77.499	11.071
12		24	10	41,67	273.887	19.563
13		19	8	42,11	173.141	15.740
14		13	3	23,08	98.096	9.810
15		26	12	46,15	111.408	7.958
16		20	5	25,00	263.092	17.539
17		16	7	43,75	179.560	19.951
18		16	7	43,75	101.512	11.279
19		24	11	45,83	351.863	27.066
20		18	10	55,56	142.399	17.800
21		12	5	41,67	143.692	20.527
22		22	10	45,45	279.540	23.295
23		16	6	37,50	142.692	14.269
24		20	8	40,00	195.728	16.311
25		19	8	42,11	256.036	23.276
26		14	3	21,43	167.440	15.222
27		15	6	40,00	90.535	10.059
28		22	8	36,36	137.060	9.790
29		17	6	35,29	124.733	11.339
30		14	6	42,86	206.816	25.852
31		17	7	41,18	190.676	19.068
32		17	7	41,18	170.048	17.005
33		19	12	63,16	103.481	14.783
34		13	6	46,15	103.470	14.781
35		24	12	50,00	162.211	13.518
36		18	10	55,56	158.726	19.841

37		23	8	34,78	397.604	26.507
38		18	10	55,56	144.575	18.072
39		16	7	43,75	118.287	13.143
40		18	6	33,33	244.730	20.394
41		26	13	50,00	241.043	18.542
42		15	7	46,67	183.570	22.946
43		22	7	31,82	230.158	15.344
44		21	8	38,10	312.184	24.014
45		13	3	23,08	145.891	14.589
46		18	7	38,89	276.126	25.102
47		18	9	50,00	179.882	19.987
48		9	5	55,56	69.014	17.253
49		11	7	63,64	70.595	17.649
50		13	7	53,85	114.348	19.058
51		17	8	47,06	170.262	18.918
52		13	4	30,77	119.157	13.240
53		23	9	39,13	272.656	19.475
54		21	6	28,57	222.693	14.846
55		17	7	41,18	156.010	15.601
56		11	1	9,09	196.375	19.637
57		16	7	43,75	114.585	12.732
58		10	3	30,00	72.332	10.333
59		23	9	39,13	309.654	22.118
60		22	9	40,91	308.109	23.701
61		13	4	30,77	251.647	27.961
62		15	8	53,33	127.125	18.161
63		25	8	32,00	386.131	22.714
64		17	2	11,76	274.856	18.324
65		17	4	23,53	116.276	8.944
66		19	13	68,42	179.289	29.881
67		16	7	43,75	199.368	22.152
68		14	4	28,57	239.549	23.955
69		26	12	46,15	307.862	21.990
70		22	10	45,45	232.936	19.411
71		11	6	54,55	112.817	22.563
72		24	7	29,17	311.135	18.302
73		15	3	20,00	212.616	17.718
74		24	11	45,83	280.834	21.603
75		19	8	42,11	196.511	17.865
76		16	9	56,25	176.798	25.257

77		21	7	33,33	322.651	23.046
78		19	9	47,37	138.006	13.801
79		26	8	30,77	323.563	17.976
80		11	5	45,45	98.952	16.492
81		26	10	38,46	280.733	17.546
82		23	13	56,52	160.385	16.038
83		15	7	46,67	234.294	29.287
84		23	15	65,22	209.911	26.239
85		15	7	46,67	176.957	22.120
86		11	8	72,73	34.328	11.443
87		19	7	36,84	335.224	27.935
88		15	8	53,33	89.808	12.830
89		15	5	33,33	257.152	25.715
90		17	7	41,18	208.778	20.878
91		10	6	60,00	69.842	17.461
92		17	8	47,06	147.740	16.416
93		16	7	43,75	162.351	18.039
94		11	3	27,27	140.390	17.549
95		16	4	25,00	273.612	22.801
96		19	9	47,37	215.843	21.584
97		19	8	42,11	231.597	21.054
98		17	7	41,18	165.372	16.537
99		14	7	50,00	153.456	21.922
100		13	4	30,77	163.333	18.148
101		20	11	55,00	170.725	18.969
102		16	6	37,50	188.589	18.859
103		17	7	41,18	188.362	18.836
104		16	5	31,25	219.901	19.991
105		17	10	58,82	215.768	30.824
106		21	4	19,05	105.371	6.198
107		18	3	16,67	271.163	18.078

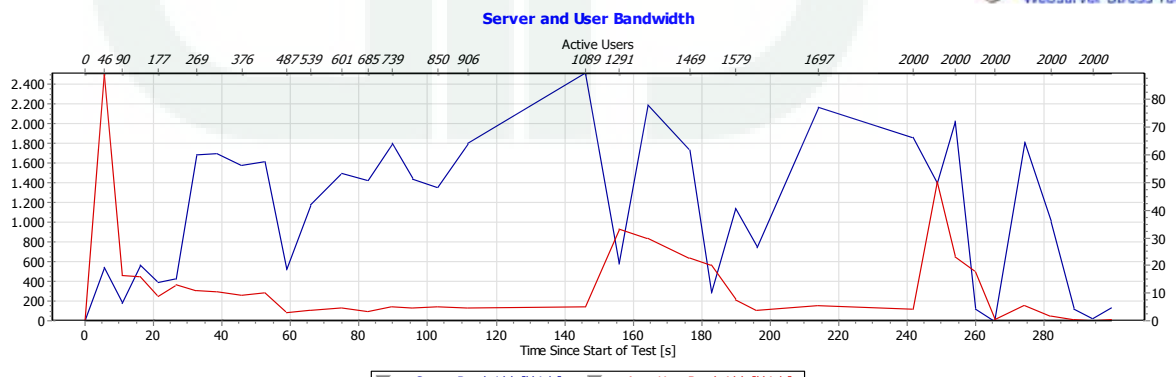
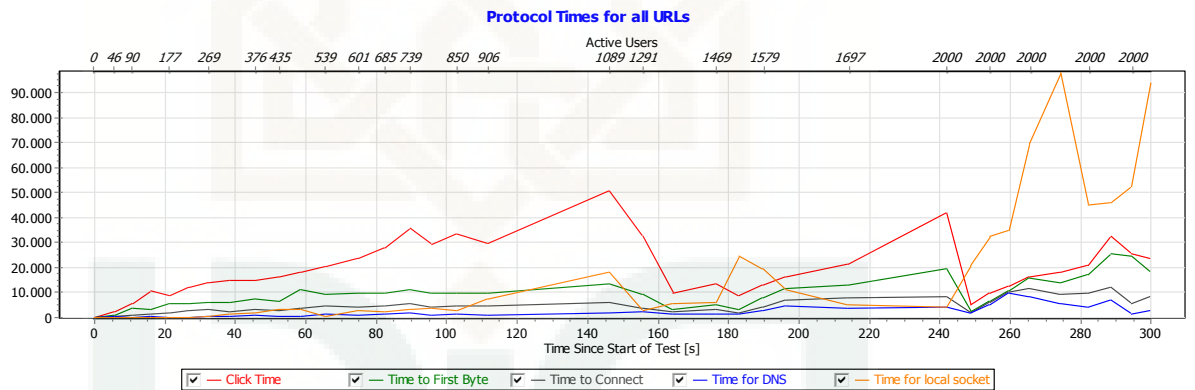
07/07/2016 15:33:03

Test Report

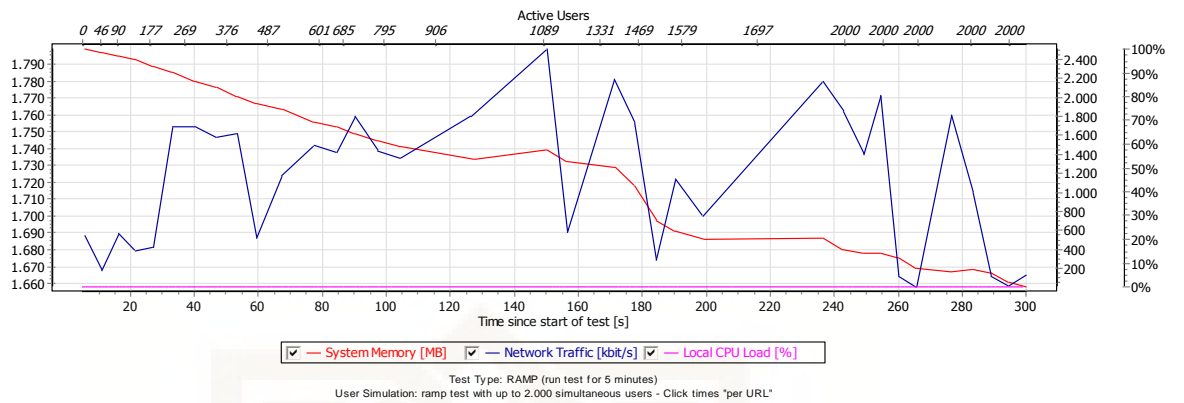
Webserver Load Performance Stress Test

Test Type: RAMP (run test for 5 minutes)

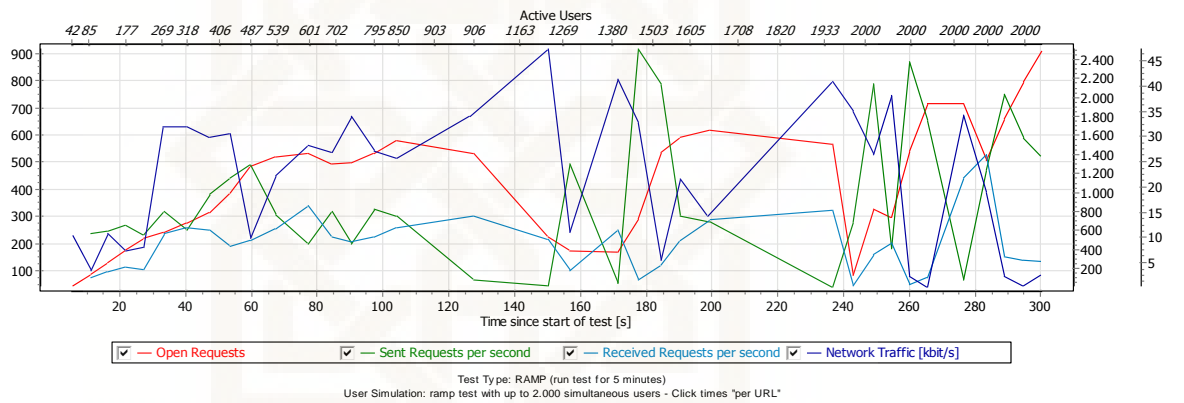
User Simulation: ramp test with up to 2.000 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

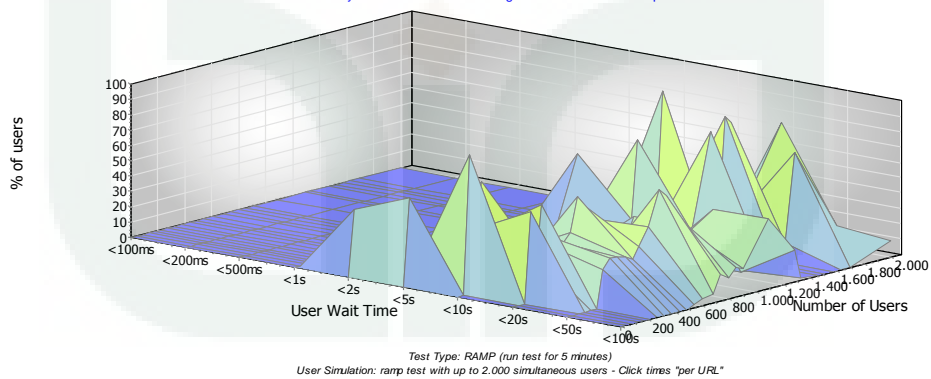


Open Requests & Transferred Data

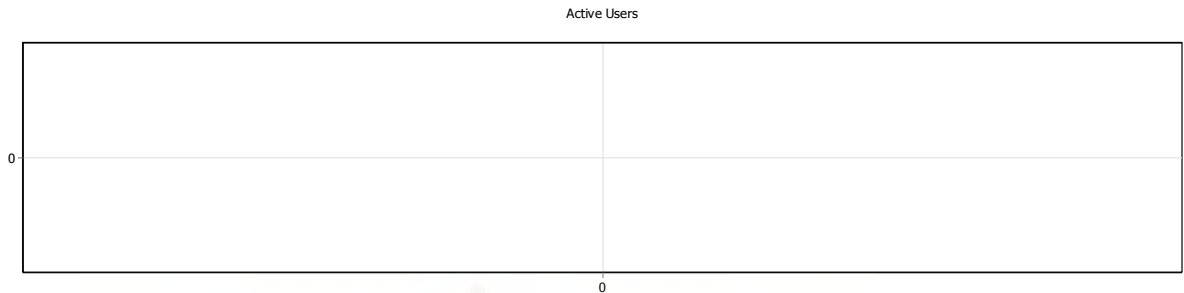


Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



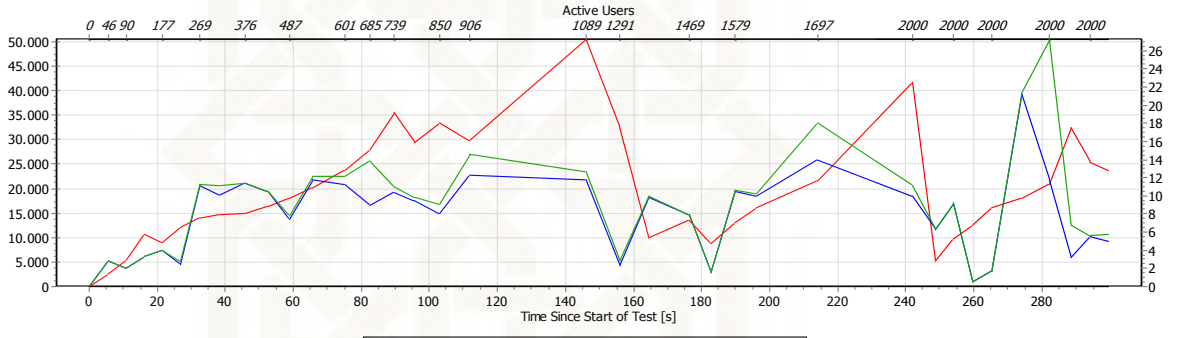
Hierarchy and Times of All Hits
 Graph is disabled for more than 100 users!



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 2,000 simultaneous users - Click times *per URL*



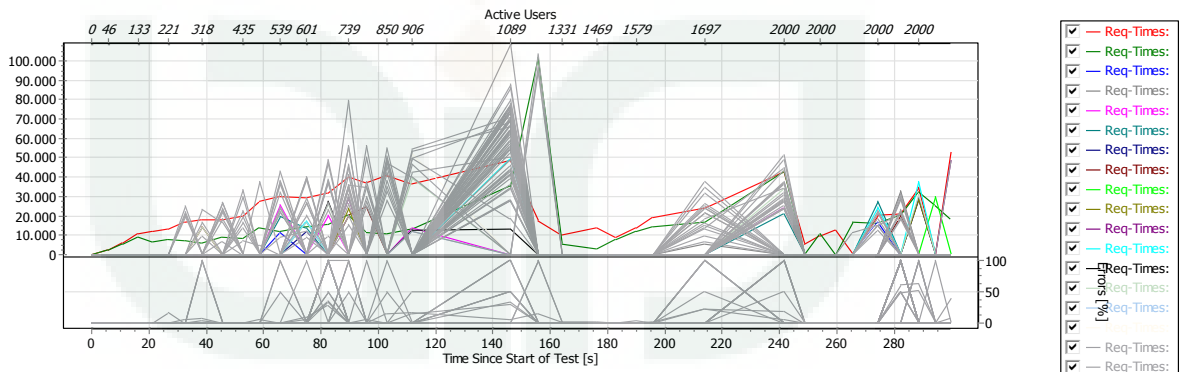
Click Time, Hits/s, Users/s (all URLs)



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 2,000 simultaneous users - Click times *per URL*



Click Times and Errors (per URL)



Test Type: RAMP (run test for 5 minutes)
 User Simulation: ramp test with up to 2,000 simultaneous users - Click times *per URL*



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		1.786	174	9,74	46.310.656	28.729
2		908	130	14,32	13.210.572	16.980
3		3	0	0,00	56.991	18.997
4		3	1	33,33	38.329	19.165
5		6	1	16,67	104.561	20.912
6		7	2	28,57	95.716	19.143
7		3	1	33,33	40.898	20.449
8		5	1	20,00	79.976	19.994
9		4	1	25,00	63.417	21.139
10		7	4	57,14	76.354	25.451
11		3	1	33,33	78.197	39.099
12		5	1	20,00	128.868	32.217
13		4	1	25,00	53.121	17.707
14		5	0	0,00	146.060	29.212
15		3	0	0,00	45.874	15.291
16		5	0	0,00	130.649	26.130
17		2	0	0,00	31.529	15.765
18		3	0	0,00	90.261	30.087
19		3	0	0,00	176.050	58.683
20		5	2	40,00	161.814	53.938
21		4	1	25,00	146.180	48.727
22		6	2	33,33	130.637	32.659
23		2	1	50,00	16.034	16.034
24		4	1	25,00	128.982	42.994
25		3	2	66,67	25.013	25.013
26		5	0	0,00	70.555	14.111
27		4	0	0,00	68.198	17.050
28		2	0	0,00	45.038	22.519
29		3	0	0,00	50.149	16.716
30		4	0	0,00	242.390	60.597
31		3	1	33,33	93.207	46.603
32		2	0	0,00	66.340	33.170
33		0	0		0	
34		4	1	25,00	131.820	43.940
35		3	0	0,00	124.300	41.433
36		2	1	50,00	75.469	75.469

37		4	0	0,00	167.858	41.965
38		7	2	28,57	222.182	44.436
39		3	0	0,00	108.815	36.272
40		1	0	0,00	24.033	24.033
41		3	0	0,00	145.908	48.636
42		2	0	0,00	70.383	35.192
43		2	1	50,00	70.914	70.914
44		6	1	16,67	286.139	57.228
45		3	0	0,00	123.833	41.278
46		2	0	0,00	119.798	59.899
47		6	3	50,00	159.390	53.130
48		6	1	16,67	183.551	36.710
49		3	1	33,33	117.880	58.940
50		1	0	0,00	16.858	16.858
51		3	0	0,00	100.385	33.462
52		5	2	40,00	175.000	58.333
53		4	0	0,00	190.887	47.722
54		4	1	25,00	108.275	36.092
55		3	0	0,00	96.506	32.169
56		2	1	50,00	59.156	59.156
57		1	1	100,00	0	
58		4	0	0,00	217.297	54.324
59		3	0	0,00	112.827	37.609
60		4	1	25,00	165.298	55.099
61		1	0	0,00	21.685	21.685
62		3	1	33,33	135.753	67.877
63		5	1	20,00	177.703	44.426
64		5	0	0,00	177.495	35.499
65		5	0	0,00	142.548	28.510
66		1	0	0,00	21.257	21.257
67		5	1	20,00	137.256	34.314
68		2	1	50,00	29.205	29.205
69		6	2	33,33	129.085	32.271
70		5	2	40,00	111.619	37.206
71		5	1	20,00	218.109	54.527
72		6	2	33,33	143.395	35.849
73		6	4	66,67	65.942	32.971
74		3	1	33,33	37.169	18.584
75		5	1	20,00	144.106	36.026
76		5	0	0,00	169.897	33.979

77		6	4	66,67	111.932	55.966
78		5	0	0,00	224.369	44.874
79		5	3	60,00	163.850	81.925
80		6	1	16,67	298.286	59.657
81		3	0	0,00	108.892	36.297
82		5	1	20,00	246.591	61.648
83		6	0	0,00	398.717	66.453
84		4	2	50,00	44.549	22.275
85		3	0	0,00	131.153	43.718
86		1	1	100,00	0	
87		2	1	50,00	22.797	22.797
88		1	0	0,00	54.412	54.412
89		4	1	25,00	153.369	51.123
90		5	2	40,00	125.821	41.940
91		4	1	25,00	106.283	35.428
92		6	0	0,00	343.270	57.212
93		5	3	60,00	49.600	24.800
94		4	0	0,00	152.430	38.107
95		3	1	33,33	68.094	34.047
96		2	0	0,00	109.045	54.523
97		2	0	0,00	112.253	56.127
98		2	0	0,00	155.881	77.940
99		3	1	33,33	72.983	36.492
100		5	0	0,00	245.337	49.067
101		2	0	0,00	53.699	26.849
102		3	1	33,33	84.753	42.376
103		3	0	0,00	154.906	51.635
104		6	1	16,67	236.157	47.231
105		6	3	50,00	125.238	41.746
106		3	0	0,00	26.466	8.822
107		2	0	0,00	57.797	28.899

LAMPIRAN III : TIME TEST

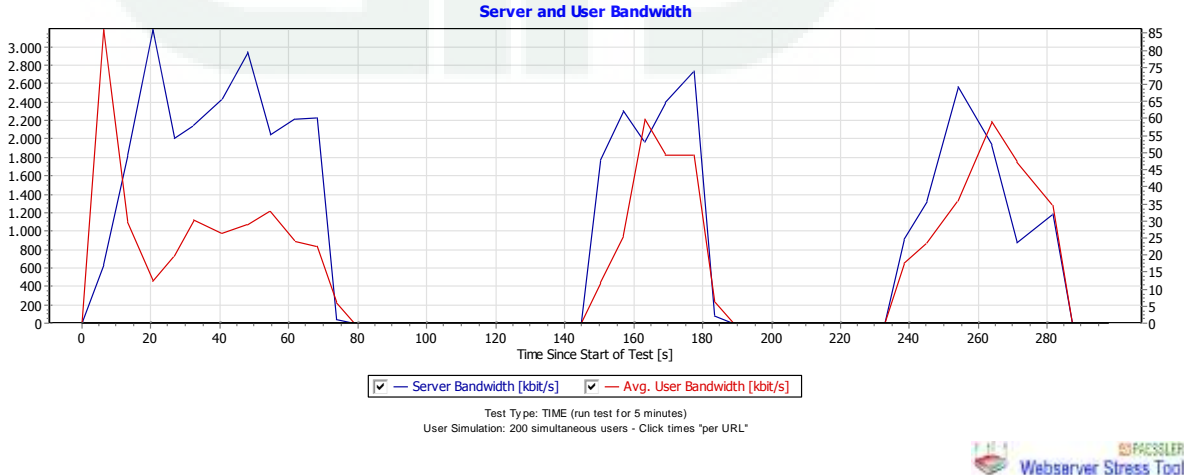
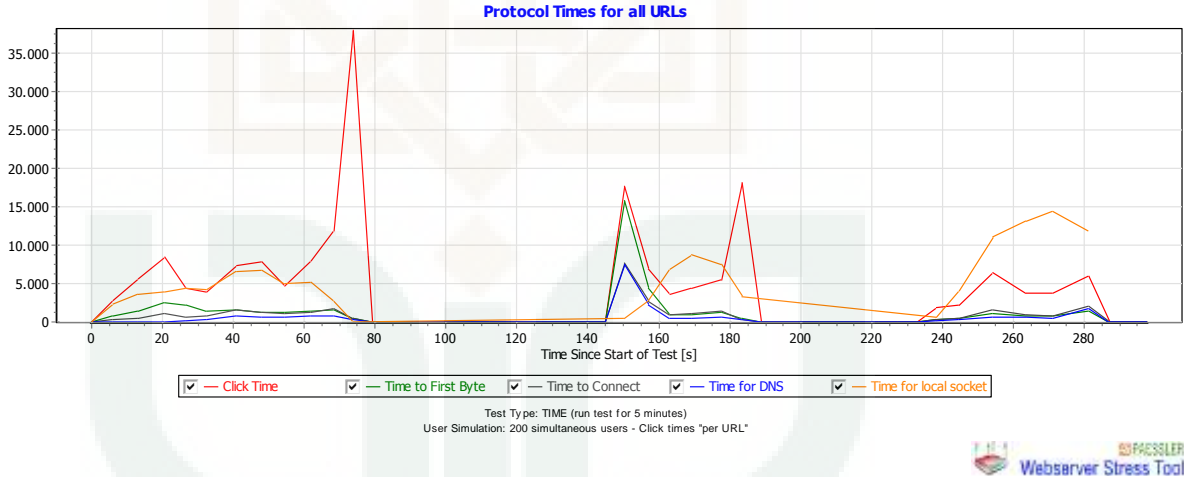
07/07/2016 0:38:43

Test Report

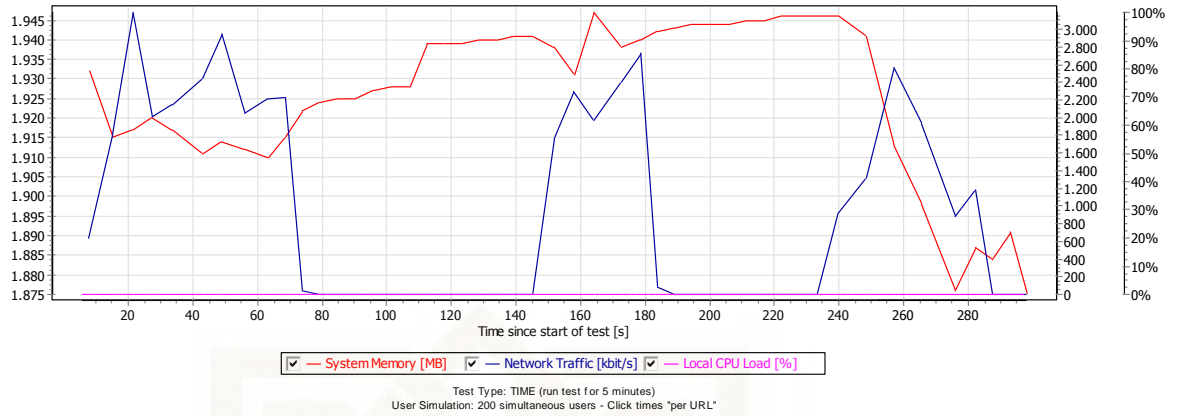
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

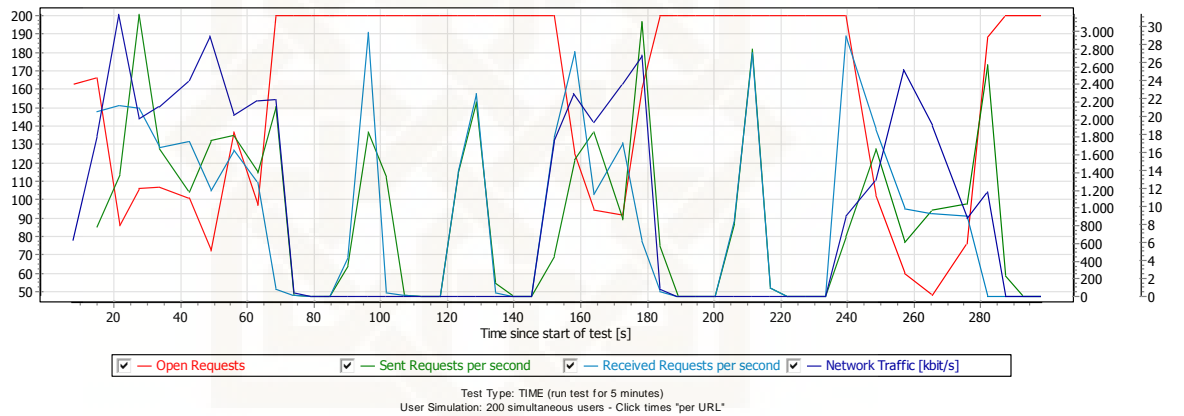
User Simulation: 200 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

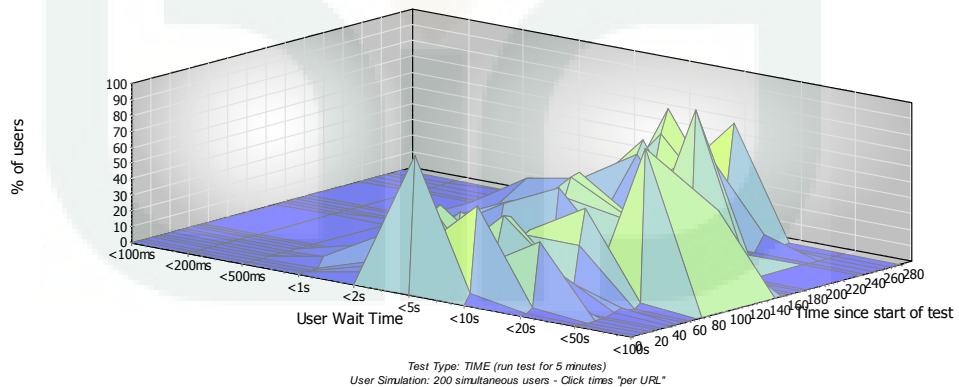


Open Requests & Transferred Data

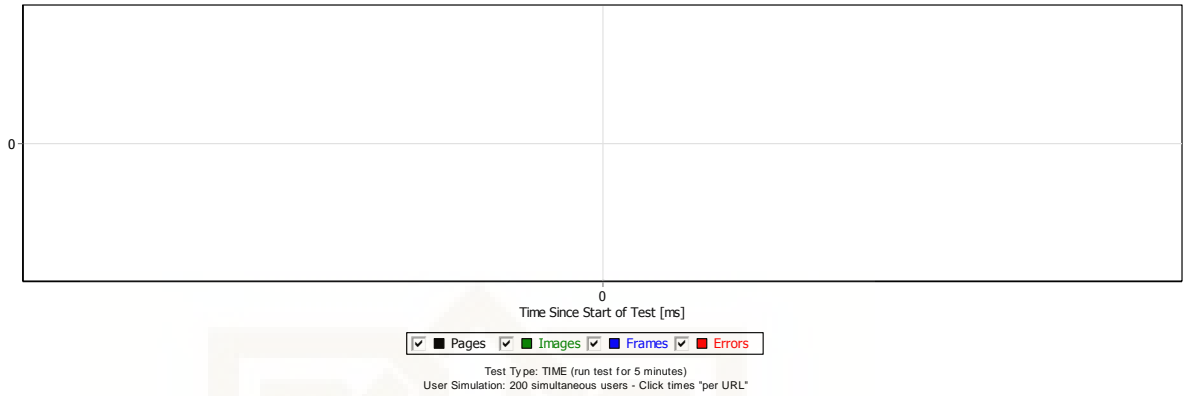


Spectrum of Click Times

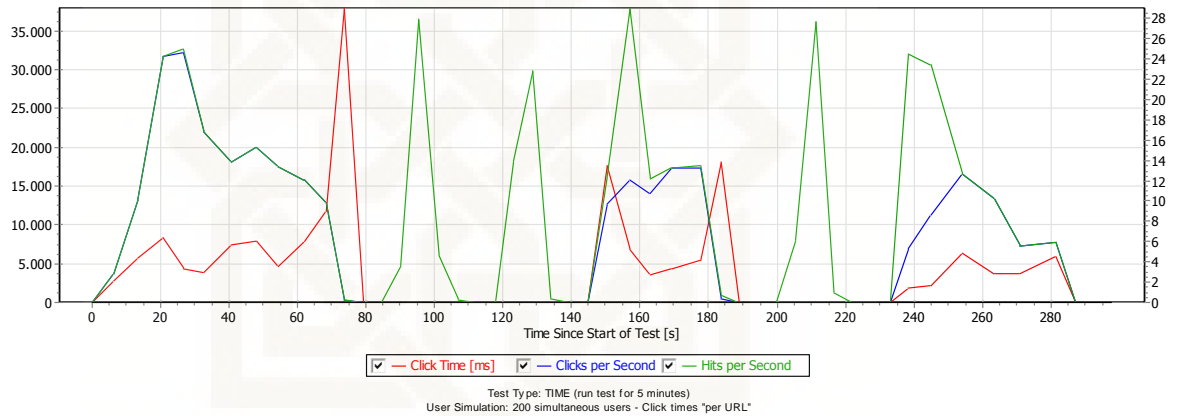
"How many users waited for how long under what load to complete a click?"



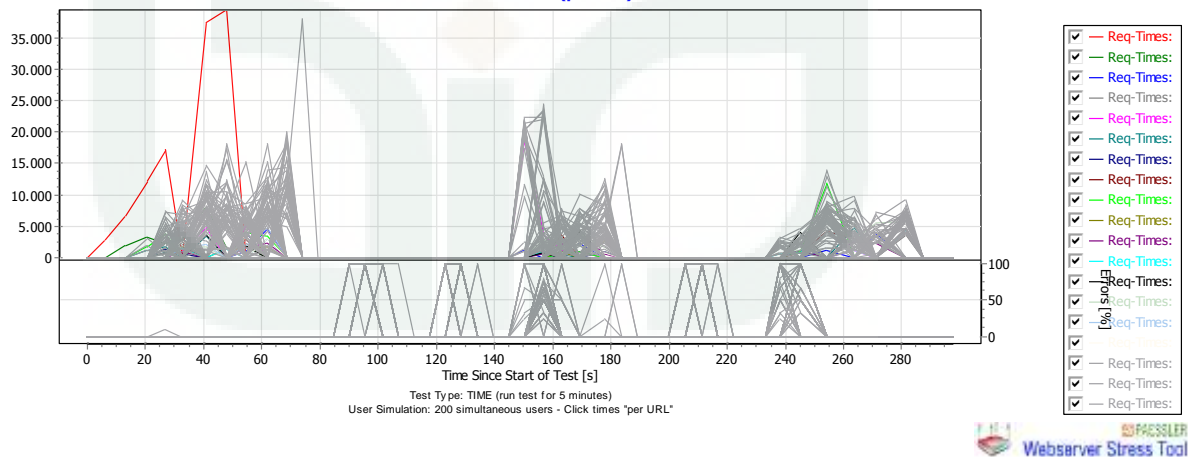
Hierarchy and Times of All Hits Graph is disabled for more than 100 users!



Click Time, Hits/s, Users/s (all URLs)



Click Times and Errors (per URL)



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		200	2	1,00	2.147.711	10.847
2		200	0	0,00	537.330	2.687
3		22	9	40,91	35.305	2.716
4		17	8	47,06	40.132	4.459
5		23	12	52,17	64.599	5.873
6		15	6	40,00	20.015	2.224
7		17	10	58,82	12.093	1.728
8		24	10	41,67	38.415	2.744
9		23	10	43,48	38.679	2.975
10		17	10	58,82	11.995	1.714
11		21	7	33,33	24.356	1.740
12		16	6	37,50	17.414	1.741
13		15	5	33,33	27.104	2.710
14		30	11	36,67	47.369	2.493
15		19	10	52,63	42.053	4.673
16		18	7	38,89	22.562	2.051
17		20	6	30,00	41.438	2.960
18		28	10	35,71	37.681	2.093
19		19	7	36,84	64.380	5.365
20		27	13	48,15	100.781	7.199
21		21	6	28,57	116.271	7.751
22		24	11	45,83	101.538	7.811
23		35	10	28,57	201.540	8.062
24		22	13	59,09	70.593	7.844
25		21	10	47,62	85.958	7.814
26		25	12	48,00	27.793	2.138
27		21	5	23,81	26.274	1.642
28		28	12	42,86	53.621	3.351
29		25	9	36,00	43.126	2.695
30		20	10	50,00	68.111	6.811
31		27	3	11,11	192.827	8.034
32		17	6	35,29	48.767	4.433
33		21	9	42,86	62.928	5.244
34		20	8	40,00	86.692	7.224
35		18	5	27,78	74.311	5.716
36		20	6	30,00	90.272	6.448

37		29	11	37,93	170.541	9.475
38		28	15	53,57	65.116	5.009
39		24	11	45,83	98.020	7.540
40		27	12	44,44	74.654	4.977
41		24	11	45,83	86.874	6.683
42		25	12	48,00	87.767	6.751
43		18	7	38,89	71.145	6.468
44		31	11	35,48	143.991	7.200
45		23	8	34,78	54.075	3.605
46		24	8	33,33	138.251	8.641
47		26	11	42,31	76.562	5.104
48		23	9	39,13	86.582	6.184
49		23	8	34,78	112.143	7.476
50		20	3	15,00	140.310	8.254
51		21	8	38,10	68.036	5.234
52		18	9	50,00	78.878	8.764
53		27	10	37,04	115.500	6.794
54		23	9	39,13	84.072	6.005
55		29	12	41,38	103.631	6.096
56		21	7	33,33	97.227	6.945
57		23	9	39,13	129.384	9.242
58		18	5	27,78	65.309	5.024
59		18	5	27,78	81.278	6.252
60		19	10	52,63	45.319	5.035
61		23	7	30,43	110.910	6.932
62		15	6	40,00	52.664	5.852
63		16	7	43,75	50.958	5.662
64		20	10	50,00	52.673	5.267
65		26	6	23,08	112.320	5.616
66		19	11	57,89	43.870	5.484
67		17	7	41,18	118.605	11.861
68		24	11	45,83	72.368	5.567
69		18	8	44,44	56.739	5.674
70		13	3	23,08	104.655	10.465
71		22	9	40,91	93.881	7.222
72		18	7	38,89	64.223	5.838
73		26	15	57,69	75.411	6.856
74		28	12	42,86	106.565	6.660
75		22	12	54,55	62.599	6.260
76		20	9	45,00	79.559	7.233

77		29	11	37,93	103.531	5.752
78		19	11	57,89	34.500	4.312
79		22	6	27,27	115.591	7.224
80		20	8	40,00	87.671	7.306
81		29	12	41,38	126.647	7.450
82		21	11	52,38	74.761	7.476
83		32	16	50,00	140.970	8.811
84		28	10	35,71	126.048	7.003
85		16	7	43,75	97.763	10.863
86		23	12	52,17	90.080	8.189
87		21	10	47,62	78.649	7.150
88		20	7	35,00	100.061	7.697
89		19	10	52,63	47.074	5.230
90		18	6	33,33	113.966	9.497
91		34	11	32,35	152.347	6.624
92		22	6	27,27	87.000	5.438
93		18	9	50,00	45.709	5.079
94		18	12	66,67	35.014	5.836
95		28	7	25,00	203.870	9.708
96		15	6	40,00	67.534	7.504
97		22	14	63,64	55.676	6.960
98		15	8	53,33	41.599	5.943
99		23	10	43,48	94.812	7.293
100		18	7	38,89	83.768	7.615
101		26	13	50,00	89.113	6.855
102		26	7	26,92	124.295	6.542
103		31	16	51,61	110.669	7.378
104		18	7	38,89	72.706	6.610
105		17	6	35,29	89.538	8.140
106		20	8	40,00	36.433	3.036
107		26	8	30,77	79.381	4.410

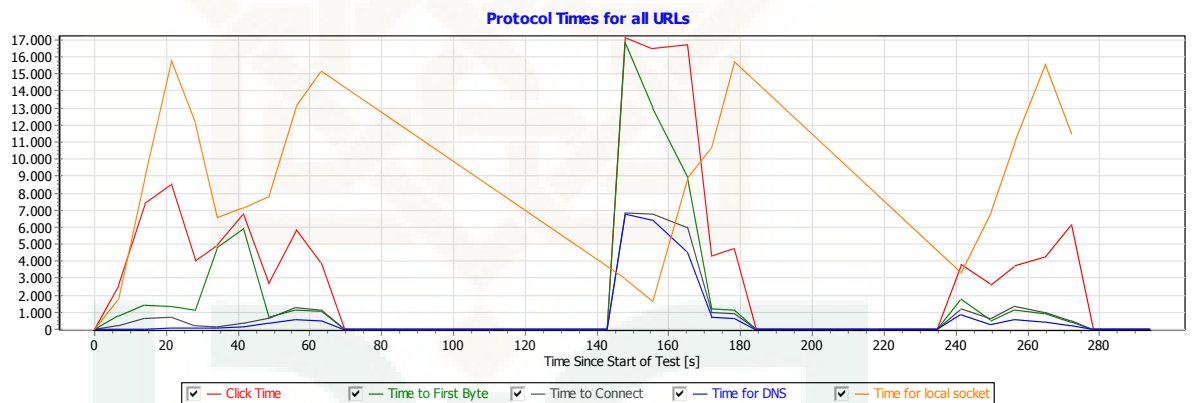
07/07/2016 0:54:12

Test Report

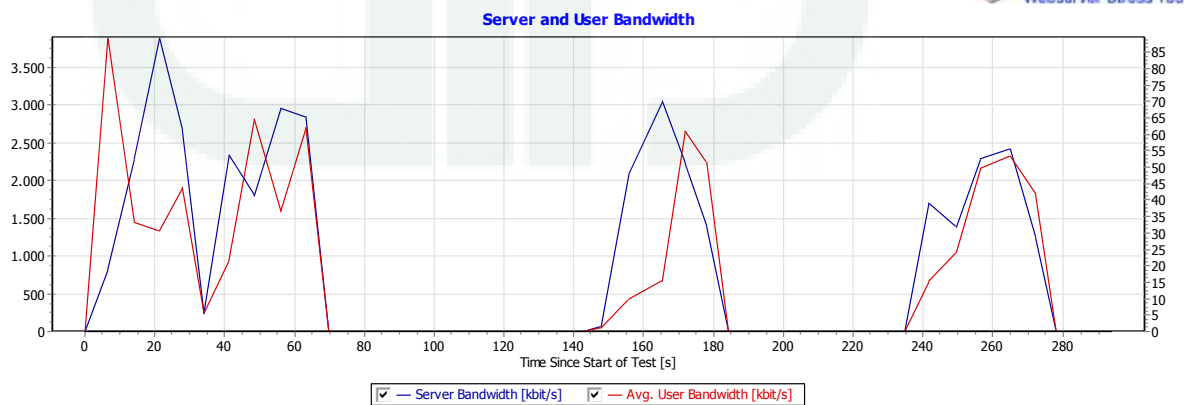
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

User Simulation: 300 simultaneous users - Click times "per URL"



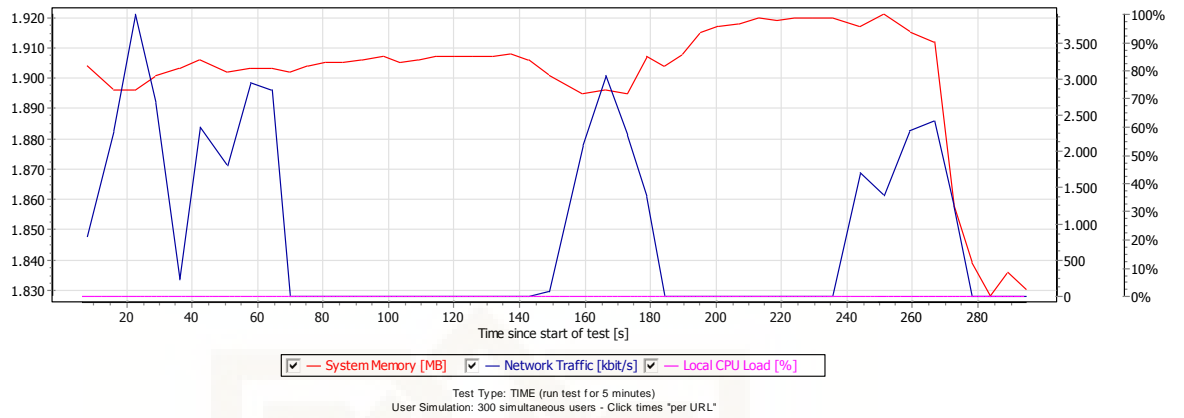
Test Type: TIME (run test for 5 minutes)
User Simulation: 300 simultaneous users - Click times "per URL"



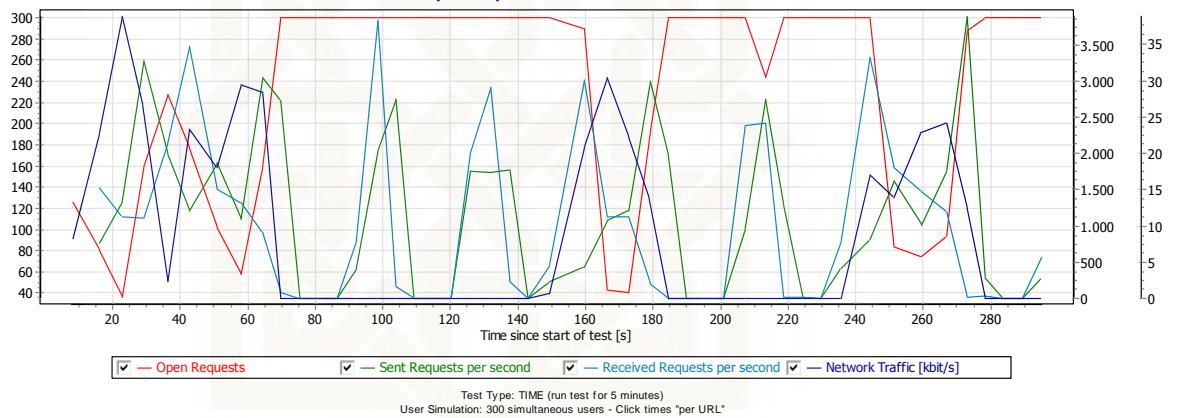
Test Type: TIME (run test for 5 minutes)
User Simulation: 300 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

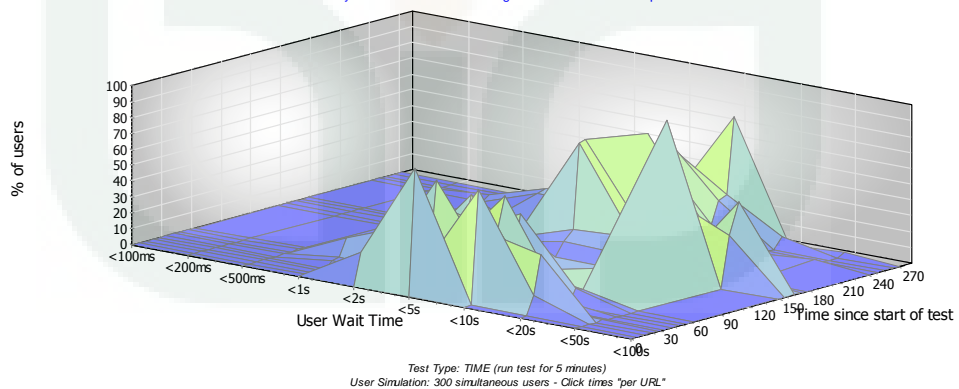


Open Requests & Transferred Data

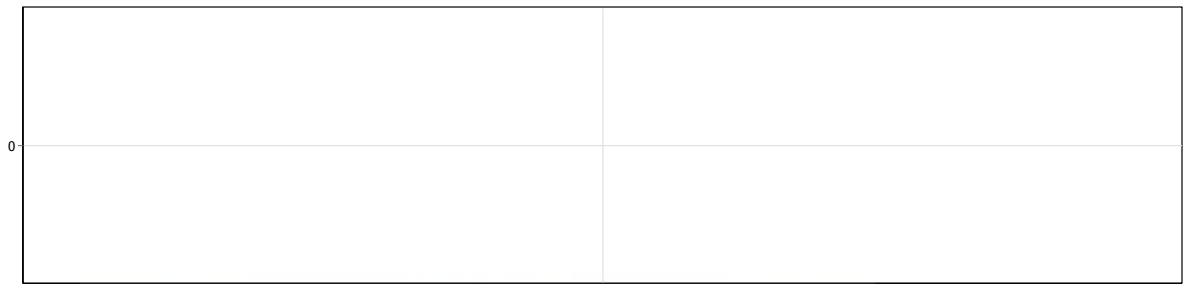


Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!



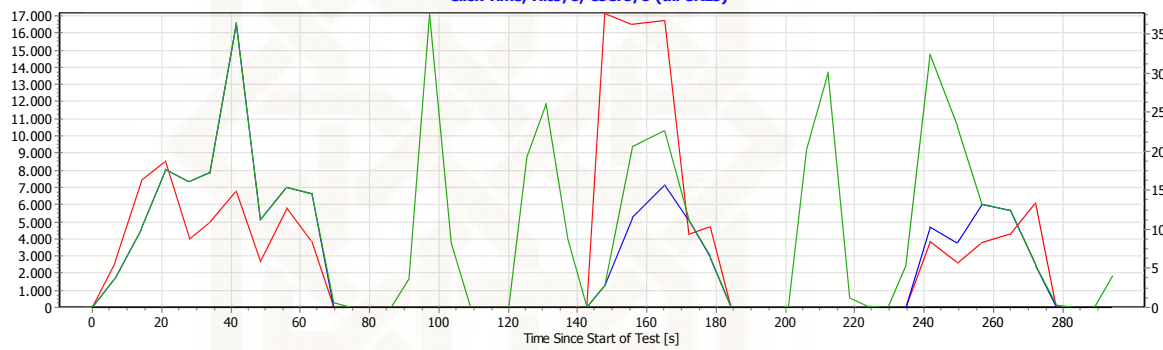
Time Since Start of Test [ms]

Pages Images Frames Errors

Test Type: TIME (run test for 5 minutes)
User Simulation: 300 simultaneous users - Click times 'per URL'



Click Time, Hits/s, Users/s (all URLs)

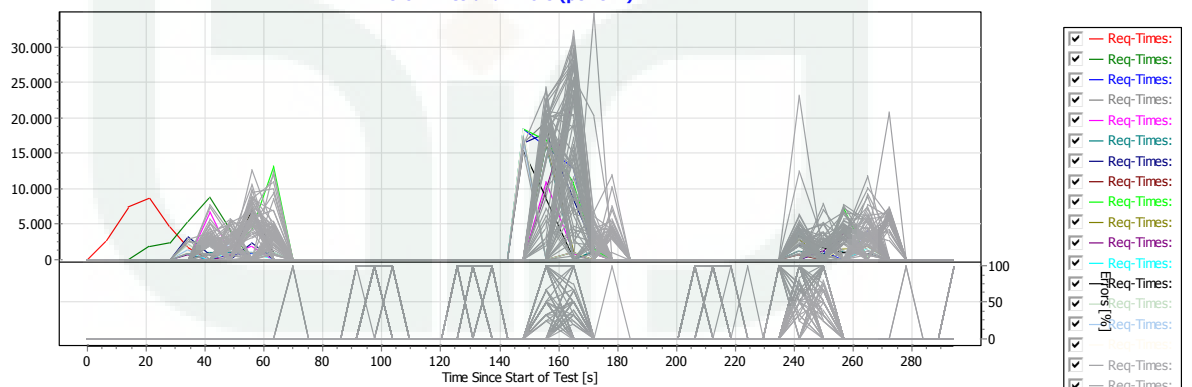


Click Time [ms] Clicks per Second Hits per Second

Test Type: TIME (run test for 5 minutes)
User Simulation: 300 simultaneous users - Click times 'per URL'



Click Times and Errors (per URL)



Test Type: TIME (run test for 5 minutes)
User Simulation: 300 simultaneous users - Click times 'per URL'



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		300	0	0,00	2.055.801	6.853
2		300	0	0,00	2.115.570	7.052
3		25	12	48,00	74.685	5.745
4		21	11	52,38	63.197	6.320
5		19	12	63,16	34.091	4.870
6		25	15	60,00	25.706	2.571
7		35	16	45,71	122.120	6.427
8		19	14	73,68	13.232	2.646
9		24	14	58,33	79.603	7.960
10		22	14	63,64	33.795	4.224
11		23	14	60,87	56.350	6.261
12		17	8	47,06	46.358	5.151
13		24	10	41,67	56.080	4.006
14		15	9	60,00	25.156	4.193
15		25	20	80,00	23.945	4.789
16		27	15	55,56	38.727	3.227
17		16	5	31,25	46.791	4.254
18		22	11	50,00	13.349	1.214
19		25	13	52,00	103.093	8.591
20		25	11	44,00	82.458	5.890
21		23	14	60,87	96.469	10.719
22		22	13	59,09	52.559	5.840
23		36	16	44,44	102.842	5.142
24		20	15	75,00	42.075	8.415
25		17	6	35,29	63.183	5.744
26		21	10	47,62	71.516	6.501
27		32	20	62,50	88.095	7.341
28		31	20	64,52	49.431	4.494
29		27	11	40,74	46.491	2.906
30		24	9	37,50	129.847	8.656
31		27	19	70,37	75.653	9.457
32		20	12	60,00	67.335	8.417
33		30	20	66,67	67.567	6.757
34		20	11	55,00	36.675	4.075
35		22	13	59,09	49.562	5.507
36		22	10	45,45	126.689	10.557

37		19	8	42,11	57.231	5.203
38		23	13	56,52	57.206	5.721
39		20	8	40,00	102.984	8.582
40		29	17	58,62	110.771	9.231
41		36	16	44,44	227.085	11.354
42		21	11	52,38	75.327	7.533
43		19	8	42,11	85.163	7.742
44		33	21	63,64	55.804	4.650
45		23	13	56,52	45.370	4.537
46		27	15	55,56	68.904	5.742
47		35	18	51,43	97.706	5.747
48		25	12	48,00	67.930	5.225
49		25	15	60,00	68.603	6.860
50		23	10	43,48	93.235	7.172
51		21	7	33,33	127.426	9.102
52		25	13	52,00	77.938	6.495
53		18	12	66,67	42.963	7.161
54		17	12	70,59	59.373	11.875
55		22	14	63,64	66.003	8.250
56		34	17	50,00	105.743	6.220
57		17	12	70,59	60.487	12.097
58		28	13	46,43	107.086	7.139
59		23	15	65,22	70.972	8.871
60		16	8	50,00	69.357	8.670
61		20	9	45,00	44.103	4.009
62		23	15	65,22	32.339	4.042
63		16	9	56,25	32.899	4.700
64		24	12	50,00	54.611	4.551
65		16	7	43,75	25.522	2.836
66		28	16	57,14	86.811	7.234
67		22	14	63,64	67.557	8.445
68		23	12	52,17	71.344	6.486
69		23	11	47,83	93.896	7.825
70		20	10	50,00	150.078	15.008
71		22	10	45,45	95.998	8.000
72		25	22	88,00	10.724	3.575
73		22	11	50,00	47.271	4.297
74		29	18	62,07	100.457	9.132
75		22	15	68,18	75.719	10.817
76		35	16	45,71	112.419	5.917

77		34	13	38,24	195.315	9.301
78		23	11	47,83	117.330	9.778
79		25	11	44,00	125.266	8.948
80		27	17	62,96	108.962	10.896
81		30	10	33,33	160.466	8.023
82		28	18	64,29	61.165	6.117
83		27	18	66,67	38.180	4.242
84		29	15	51,72	99.440	7.103
85		14	4	28,57	105.205	10.521
86		27	16	59,26	121.538	11.049
87		25	13	52,00	101.467	8.456
88		22	15	68,18	74.766	10.681
89		21	9	42,86	98.626	8.219
90		18	11	61,11	56.380	8.054
91		24	16	66,67	50.455	6.307
92		19	16	84,21	10.317	3.439
93		23	10	43,48	83.751	6.442
94		30	14	46,67	138.020	8.626
95		29	20	68,97	35.922	3.991
96		31	15	48,39	94.526	5.908
97		28	13	46,43	59.799	3.987
98		16	9	56,25	62.883	8.983
99		16	11	68,75	18.688	3.738
100		23	14	60,87	29.342	3.260
101		33	18	54,55	105.790	7.053
102		25	15	60,00	87.912	8.791
103		24	16	66,67	55.780	6.972
104		23	14	60,87	58.552	6.506
105		26	12	46,15	100.022	7.144
106		24	8	33,33	46.404	2.900
107		11	7	63,64	48.376	12.094

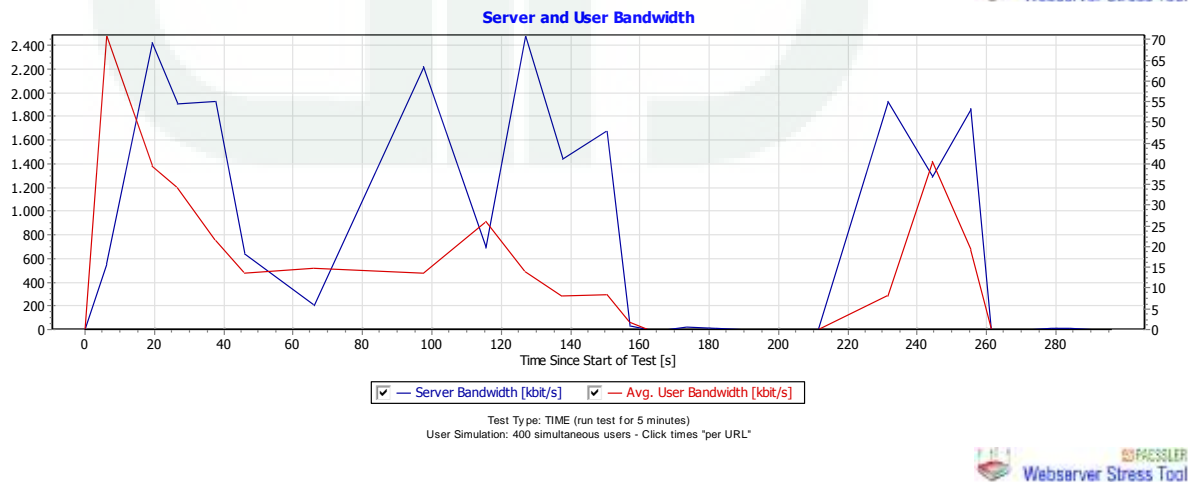
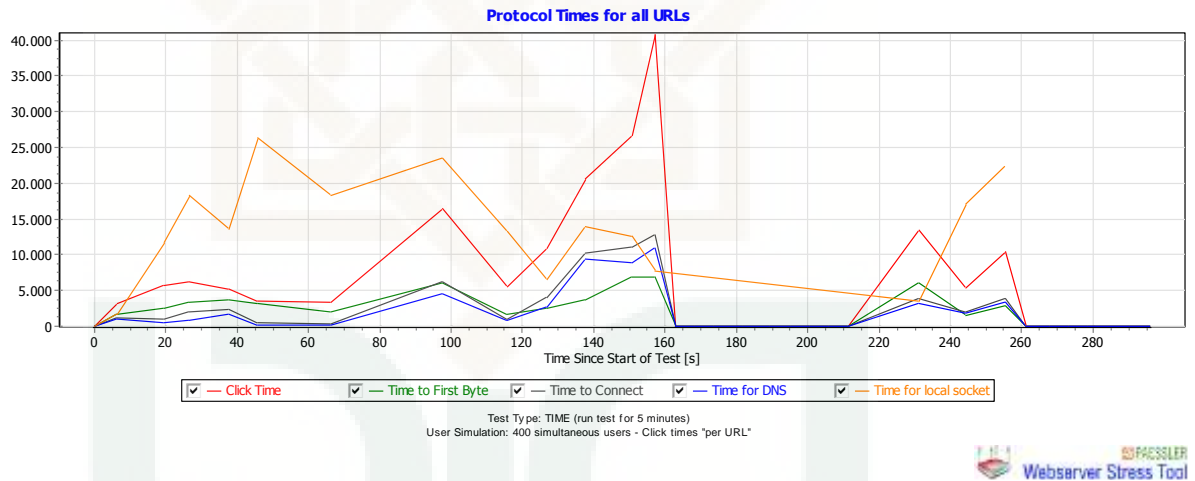
07/07/2016 1:19:35

Test Report

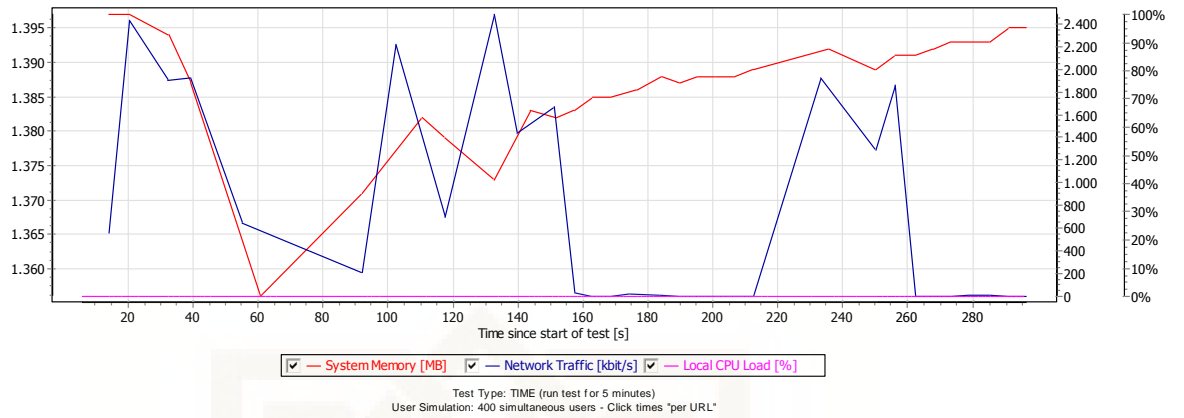
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

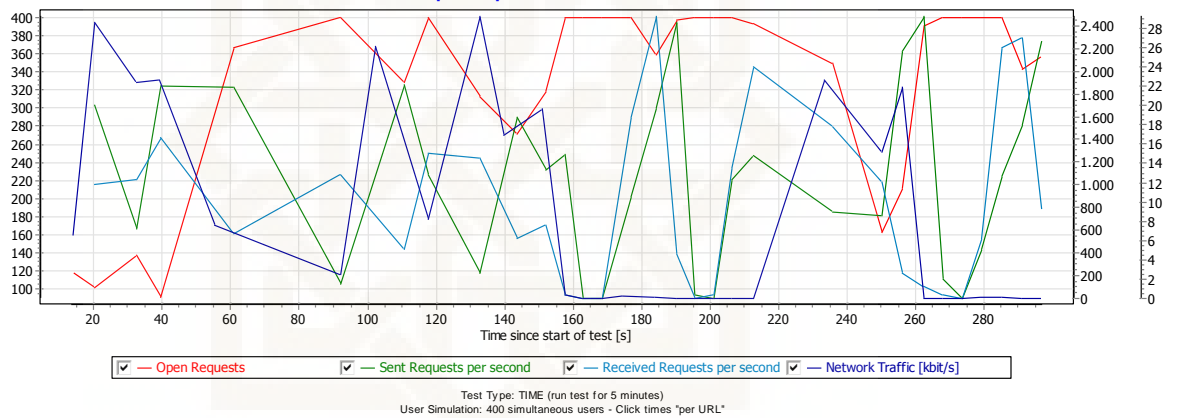
User Simulation: 400 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

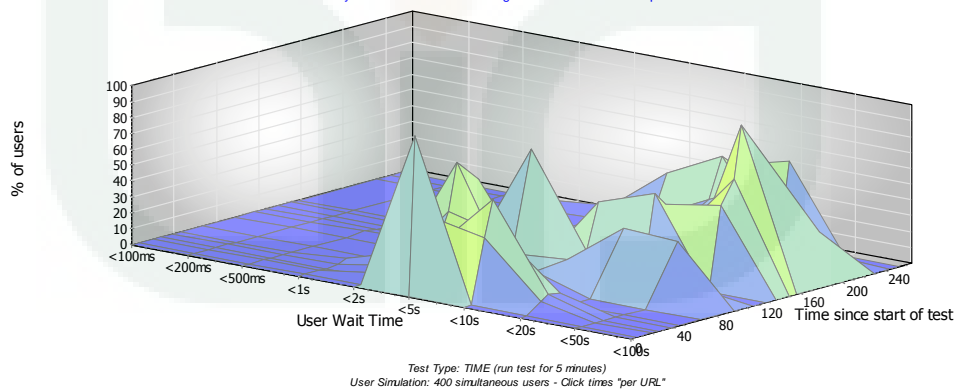


Open Requests & Transferred Data

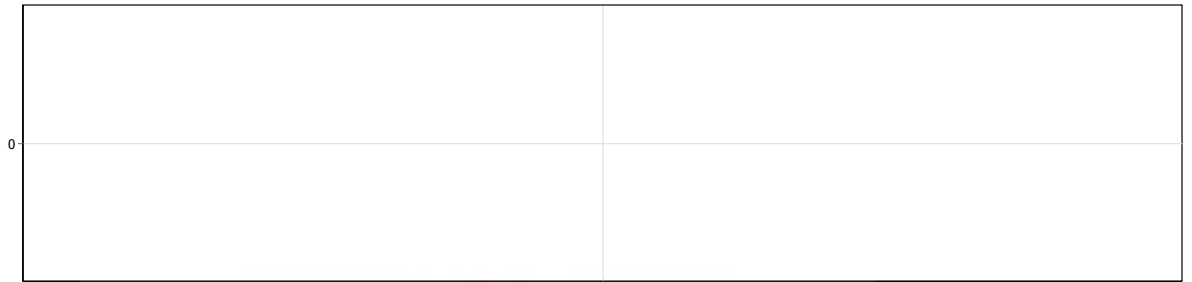


Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



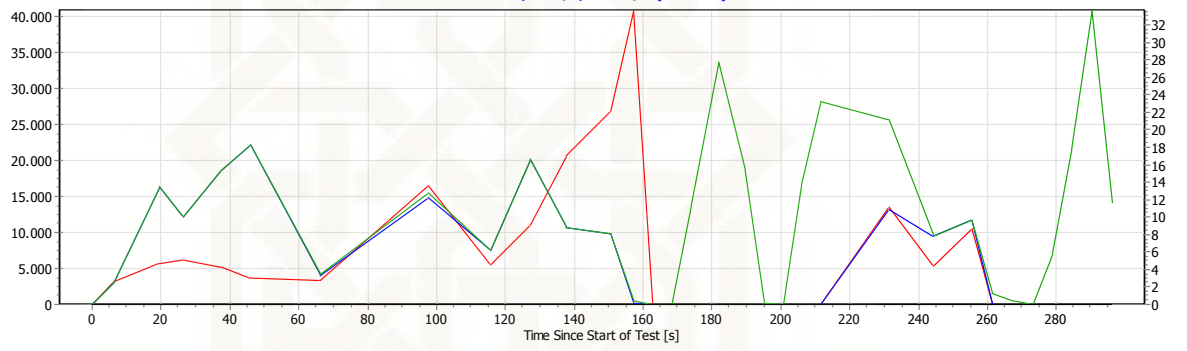
Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!



Pages Images Frames Errors
Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



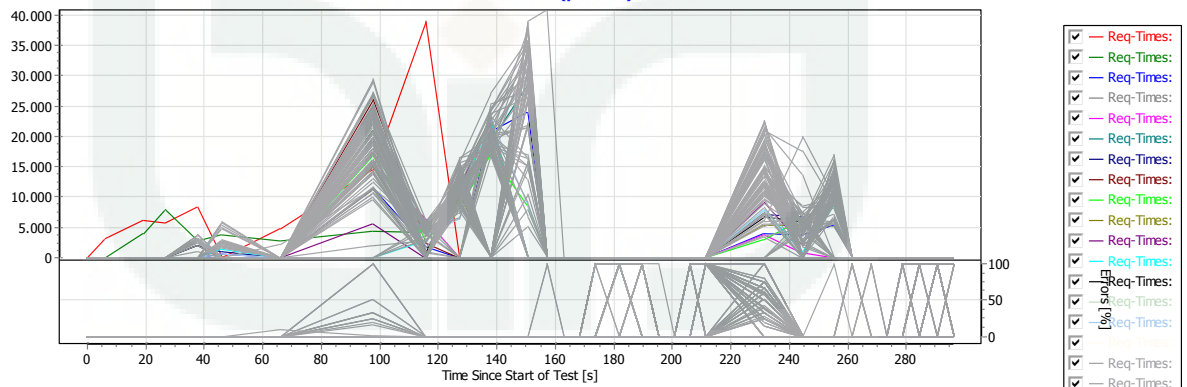
Click Time, Hits/s, Users/s (all URLs)



Click Time [ms] Clicks per Second Hits per Second
Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



Click Times and Errors (per URL)



Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		400	3	0,75	3.361.370	8.467
2		400	0	0,00	1.662.175	4.155
3		18	6	33,33	98.859	8.238
4		25	15	60,00	130.540	13.054
5		23	12	52,17	146.113	13.283
6		16	8	50,00	131.519	16.440
7		23	7	30,43	176.090	11.006
8		20	13	65,00	86.045	12.292
9		19	10	52,63	97.059	10.784
10		25	12	48,00	100.485	7.730
11		25	16	64,00	80.849	8.983
12		24	9	37,50	130.510	8.701
13		18	8	44,44	102.231	10.223
14		26	13	50,00	191.929	14.764
15		21	9	42,86	156.976	13.081
16		22	11	50,00	109.060	9.915
17		23	12	52,17	101.440	9.222
18		24	13	54,17	124.125	11.284
19		27	17	62,96	145.721	14.572
20		32	18	56,25	185.624	13.259
21		12	7	58,33	106.282	21.256
22		29	15	51,72	233.375	16.670
23		23	20	86,96	32.336	10.779
24		24	14	58,33	174.975	17.497
25		24	9	37,50	241.644	16.110
26		24	15	62,50	151.558	16.840
27		24	7	29,17	181.617	10.683
28		26	13	50,00	195.161	15.012
29		17	4	23,53	113.974	8.767
30		26	11	42,31	176.754	11.784
31		26	18	69,23	69.236	8.655
32		21	10	47,62	171.386	15.581
33		25	19	76,00	105.689	17.615
34		23	10	43,48	252.598	19.431
35		20	8	40,00	140.799	11.733
36		23	14	60,87	131.806	14.645

37		29	14	48,28	285.654	19.044
38		24	11	45,83	210.988	16.230
39		22	17	77,27	114.288	22.858
40		24	13	54,17	174.137	15.831
41		22	14	63,64	129.667	16.208
42		20	7	35,00	153.161	11.782
43		24	13	54,17	151.123	13.738
44		30	12	40,00	260.186	14.455
45		29	14	48,28	187.536	12.502
46		27	15	55,56	197.375	16.448
47		26	14	53,85	203.316	16.943
48		23	10	43,48	243.081	18.699
49		28	13	46,43	190.590	12.706
50		23	11	47,83	211.318	17.610
51		27	15	55,56	209.417	17.451
52		22	11	50,00	187.294	17.027
53		24	18	75,00	86.229	14.372
54		25	13	52,00	102.081	8.507
55		39	23	58,97	247.568	15.473
56		13	5	38,46	112.219	14.027
57		19	8	42,11	205.778	18.707
58		22	11	50,00	145.752	13.250
59		26	18	69,23	93.582	11.698
60		28	9	32,14	245.390	12.915
61		15	7	46,67	98.231	12.279
62		22	13	59,09	119.622	13.291
63		18	8	44,44	167.170	16.717
64		22	10	45,45	114.863	9.572
65		27	13	48,15	105.897	7.564
66		22	10	45,45	206.105	17.175
67		24	14	58,33	142.359	14.236
68		20	14	70,00	106.936	17.823
69		22	11	50,00	167.045	15.186
70		25	15	60,00	193.795	19.380
71		22	14	63,64	112.559	14.070
72		18	5	27,78	198.549	15.273
73		13	7	53,85	79.359	13.226
74		21	6	28,57	241.395	16.093
75		20	10	50,00	151.488	15.149
76		21	12	57,14	105.604	11.734

77		29	16	55,17	263.079	20.237
78		23	15	65,22	123.365	15.421
79		26	12	46,15	190.435	13.602
80		13	6	46,15	107.863	15.409
81		19	10	52,63	116.405	12.934
82		22	9	40,91	203.273	15.636
83		17	10	58,82	95.590	13.656
84		26	12	46,15	224.271	16.019
85		20	13	65,00	146.978	20.997
86		18	7	38,89	166.947	15.177
87		29	16	55,17	184.605	14.200
88		18	10	55,56	97.329	12.166
89		13	8	61,54	76.920	15.384
90		27	16	59,26	120.485	10.953
91		35	21	60,00	207.253	14.804
92		24	12	50,00	250.315	20.860
93		35	18	51,43	261.552	15.385
94		26	13	50,00	248.654	19.127
95		23	10	43,48	167.506	12.885
96		18	9	50,00	129.386	14.376
97		20	16	80,00	73.214	18.303
98		22	9	40,91	252.658	19.435
99		25	14	56,00	169.887	15.444
100		20	11	55,00	107.590	11.954
101		22	9	40,91	232.088	17.853
102		18	12	66,67	105.902	17.650
103		28	14	50,00	203.937	14.567
104		19	8	42,11	144.768	13.161
105		15	3	20,00	134.599	11.217
106		16	7	43,75	37.714	4.190
107		28	10	35,71	218.958	12.164

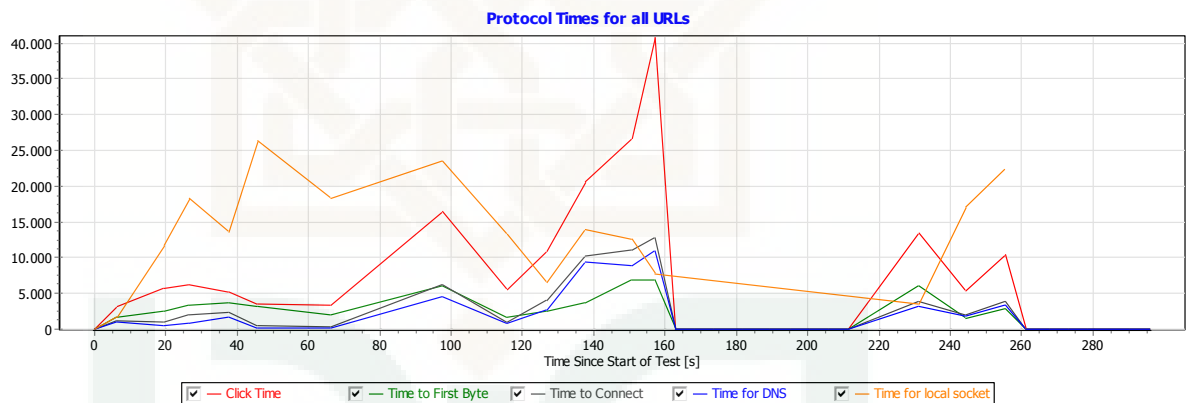
07/07/2016 1:19:35

Test Report

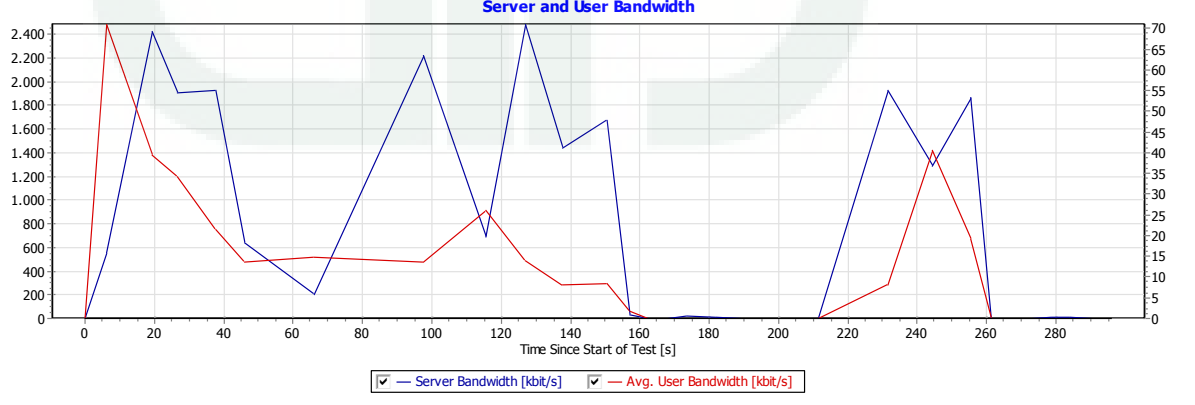
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

User Simulation: 400 simultaneous users - Click times "per URL"

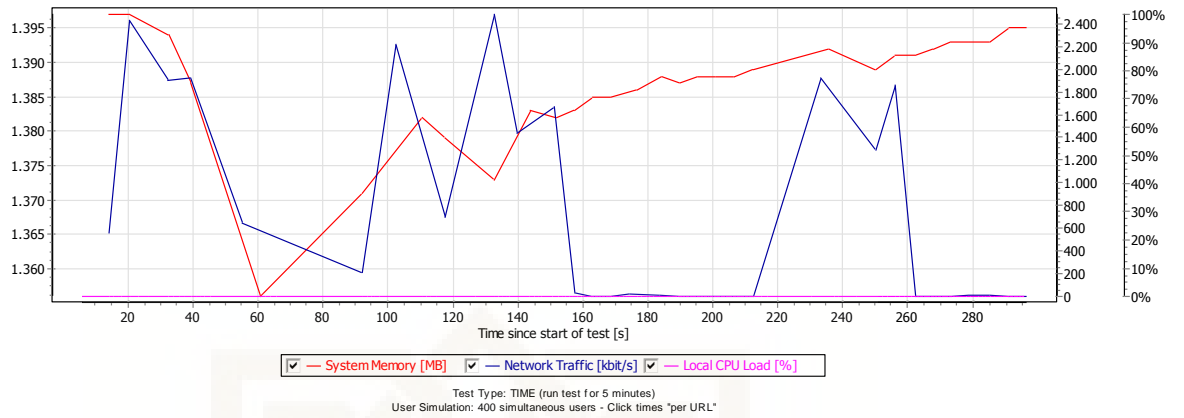


Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times "per URL"

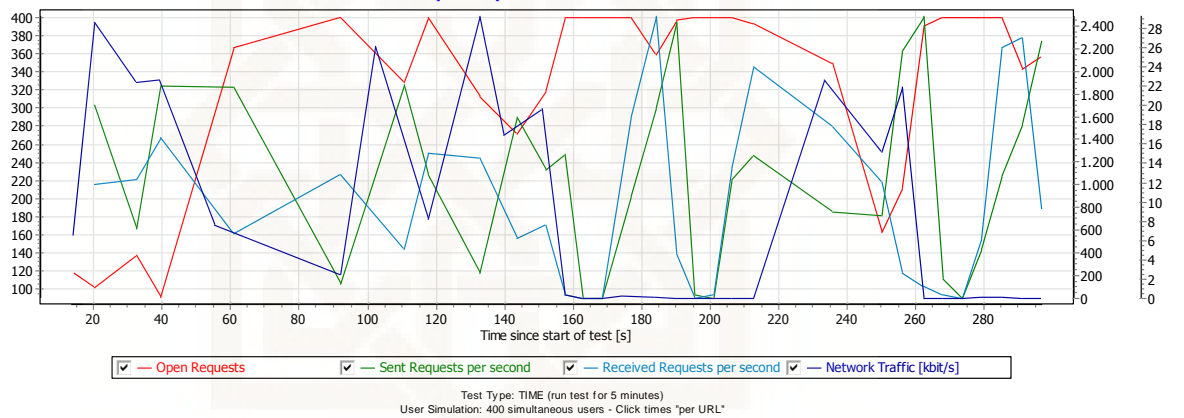


Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times "per URL"

Transferred Data & System Memory & CPU Load

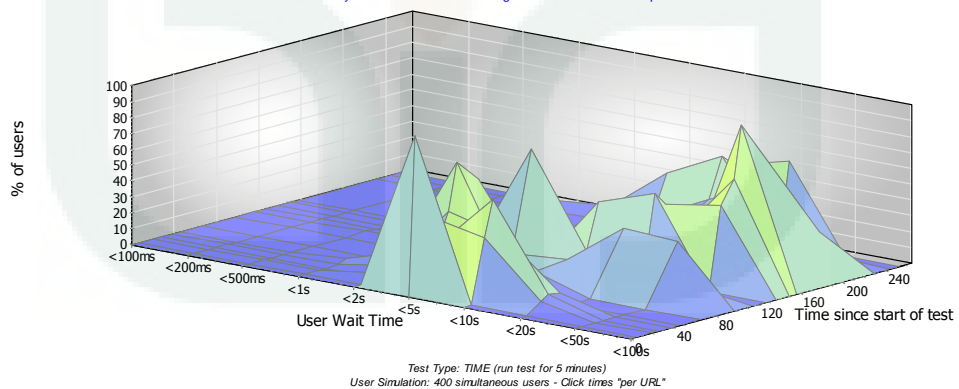


Open Requests & Transferred Data

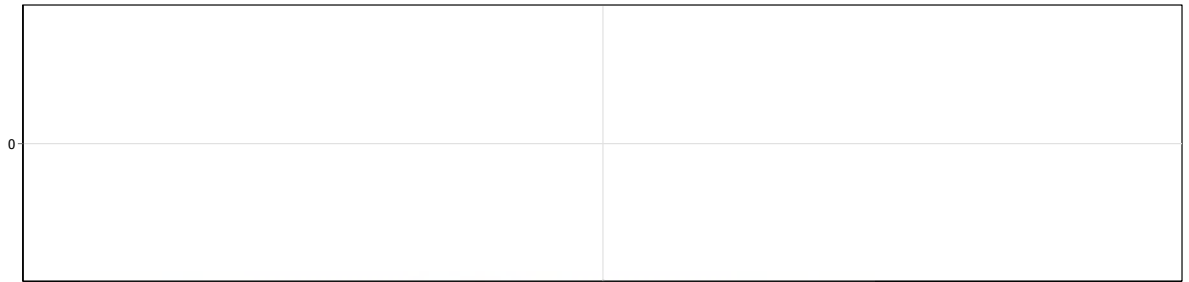


Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!



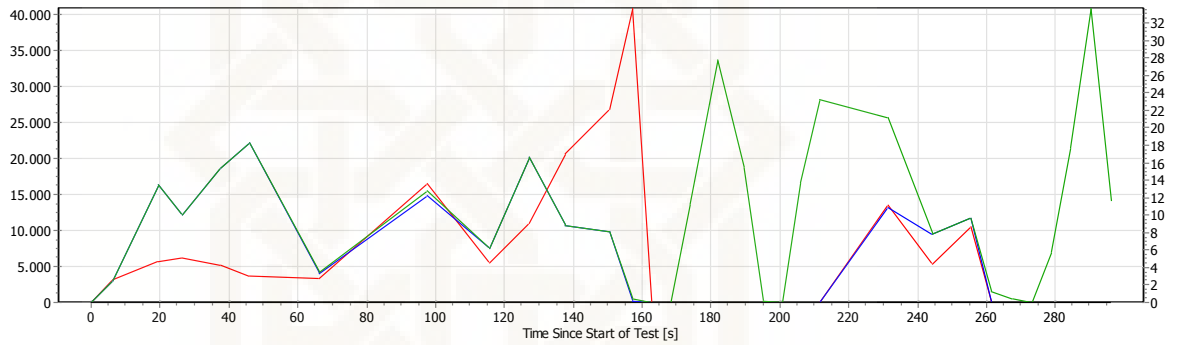
Time Since Start of Test [ms]

- Pages
- Images
- Frames
- Errors

Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



Click Time, Hits/s, Users/s (all URLs)

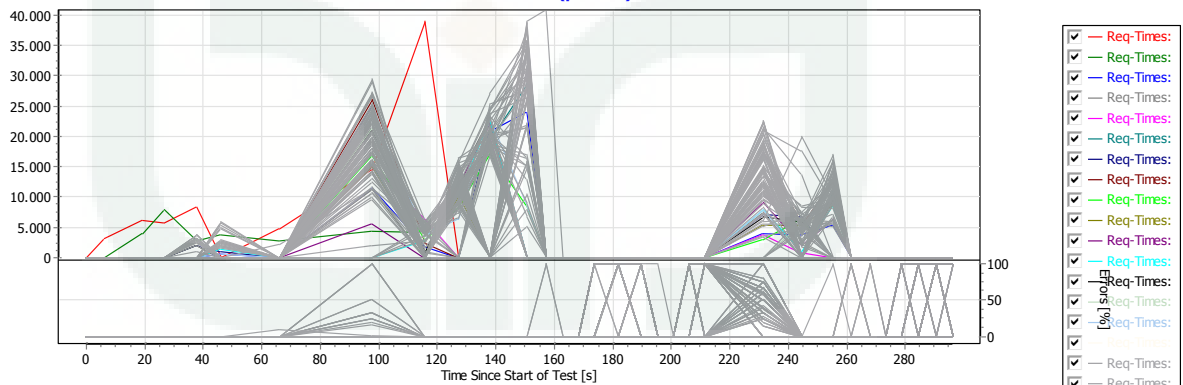


- Click Time [ms]
- Clicks per Second
- Hits per Second

Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



Click Times and Errors (per URL)



- Req-Times: [Red]
- Req-Times: [Green]
- Req-Times: [Blue]
- Req-Times: [Grey]
- Req-Times: [Magenta]
- Req-Times: [Cyan]
- Req-Times: [Dark Blue]
- Req-Times: [Brown]
- Req-Times: [Light Green]
- Req-Times: [Olive]
- Req-Times: [Purple]
- Req-Times: [Teal]
- Req-Times: [Dark Green]
- Req-Times: [Black]
- Req-Times: [Light Blue]
- Req-Times: [Dark Grey]
- Req-Times: [Light Grey]
- Req-Times: [White]
- Req-Times: [Dark Blue]
- Req-Times: [Light Blue]
- Req-Times: [Dark Grey]
- Req-Times: [Light Grey]
- Req-Times: [White]
- Req-Times: [Dark Blue]
- Req-Times: [Light Blue]
- Req-Times: [Dark Grey]
- Req-Times: [Light Grey]
- Req-Times: [White]

Test Type: TIME (run test for 5 minutes)
User Simulation: 400 simultaneous users - Click times 'per URL'



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		400	3	0,75	3.361.370	8.467
2		400	0	0,00	1.662.175	4.155
3		18	6	33,33	98.859	8.238
4		25	15	60,00	130.540	13.054
5		23	12	52,17	146.113	13.283
6		16	8	50,00	131.519	16.440
7		23	7	30,43	176.090	11.006
8		20	13	65,00	86.045	12.292
9		19	10	52,63	97.059	10.784
10		25	12	48,00	100.485	7.730
11		25	16	64,00	80.849	8.983
12		24	9	37,50	130.510	8.701
13		18	8	44,44	102.231	10.223
14		26	13	50,00	191.929	14.764
15		21	9	42,86	156.976	13.081
16		22	11	50,00	109.060	9.915
17		23	12	52,17	101.440	9.222
18		24	13	54,17	124.125	11.284
19		27	17	62,96	145.721	14.572
20		32	18	56,25	185.624	13.259
21		12	7	58,33	106.282	21.256
22		29	15	51,72	233.375	16.670
23		23	20	86,96	32.336	10.779
24		24	14	58,33	174.975	17.497
25		24	9	37,50	241.644	16.110
26		24	15	62,50	151.558	16.840
27		24	7	29,17	181.617	10.683
28		26	13	50,00	195.161	15.012
29		17	4	23,53	113.974	8.767
30		26	11	42,31	176.754	11.784
31		26	18	69,23	69.236	8.655
32		21	10	47,62	171.386	15.581
33		25	19	76,00	105.689	17.615
34		23	10	43,48	252.598	19.431
35		20	8	40,00	140.799	11.733
36		23	14	60,87	131.806	14.645

37		29	14	48,28	285.654	19.044
38		24	11	45,83	210.988	16.230
39		22	17	77,27	114.288	22.858
40		24	13	54,17	174.137	15.831
41		22	14	63,64	129.667	16.208
42		20	7	35,00	153.161	11.782
43		24	13	54,17	151.123	13.738
44		30	12	40,00	260.186	14.455
45		29	14	48,28	187.536	12.502
46		27	15	55,56	197.375	16.448
47		26	14	53,85	203.316	16.943
48		23	10	43,48	243.081	18.699
49		28	13	46,43	190.590	12.706
50		23	11	47,83	211.318	17.610
51		27	15	55,56	209.417	17.451
52		22	11	50,00	187.294	17.027
53		24	18	75,00	86.229	14.372
54		25	13	52,00	102.081	8.507
55		39	23	58,97	247.568	15.473
56		13	5	38,46	112.219	14.027
57		19	8	42,11	205.778	18.707
58		22	11	50,00	145.752	13.250
59		26	18	69,23	93.582	11.698
60		28	9	32,14	245.390	12.915
61		15	7	46,67	98.231	12.279
62		22	13	59,09	119.622	13.291
63		18	8	44,44	167.170	16.717
64		22	10	45,45	114.863	9.572
65		27	13	48,15	105.897	7.564
66		22	10	45,45	206.105	17.175
67		24	14	58,33	142.359	14.236
68		20	14	70,00	106.936	17.823
69		22	11	50,00	167.045	15.186
70		25	15	60,00	193.795	19.380
71		22	14	63,64	112.559	14.070
72		18	5	27,78	198.549	15.273
73		13	7	53,85	79.359	13.226
74		21	6	28,57	241.395	16.093
75		20	10	50,00	151.488	15.149
76		21	12	57,14	105.604	11.734

77		29	16	55,17	263.079	20.237
78		23	15	65,22	123.365	15.421
79		26	12	46,15	190.435	13.602
80		13	6	46,15	107.863	15.409
81		19	10	52,63	116.405	12.934
82		22	9	40,91	203.273	15.636
83		17	10	58,82	95.590	13.656
84		26	12	46,15	224.271	16.019
85		20	13	65,00	146.978	20.997
86		18	7	38,89	166.947	15.177
87		29	16	55,17	184.605	14.200
88		18	10	55,56	97.329	12.166
89		13	8	61,54	76.920	15.384
90		27	16	59,26	120.485	10.953
91		35	21	60,00	207.253	14.804
92		24	12	50,00	250.315	20.860
93		35	18	51,43	261.552	15.385
94		26	13	50,00	248.654	19.127
95		23	10	43,48	167.506	12.885
96		18	9	50,00	129.386	14.376
97		20	16	80,00	73.214	18.303
98		22	9	40,91	252.658	19.435
99		25	14	56,00	169.887	15.444
100		20	11	55,00	107.590	11.954
101		22	9	40,91	232.088	17.853
102		18	12	66,67	105.902	17.650
103		28	14	50,00	203.937	14.567
104		19	8	42,11	144.768	13.161
105		15	3	20,00	134.599	11.217
106		16	7	43,75	37.714	4.190
107		28	10	35,71	218.958	12.164

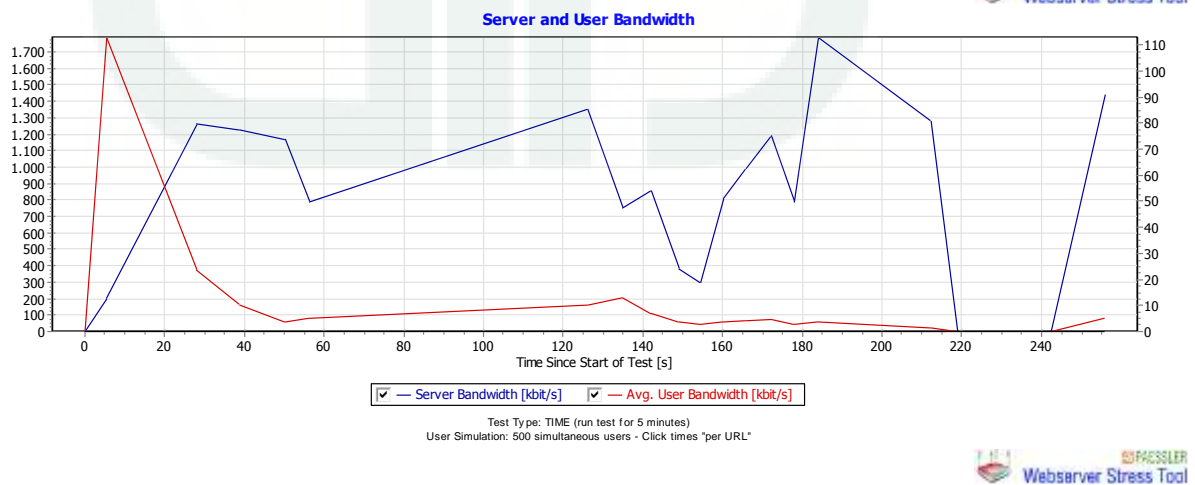
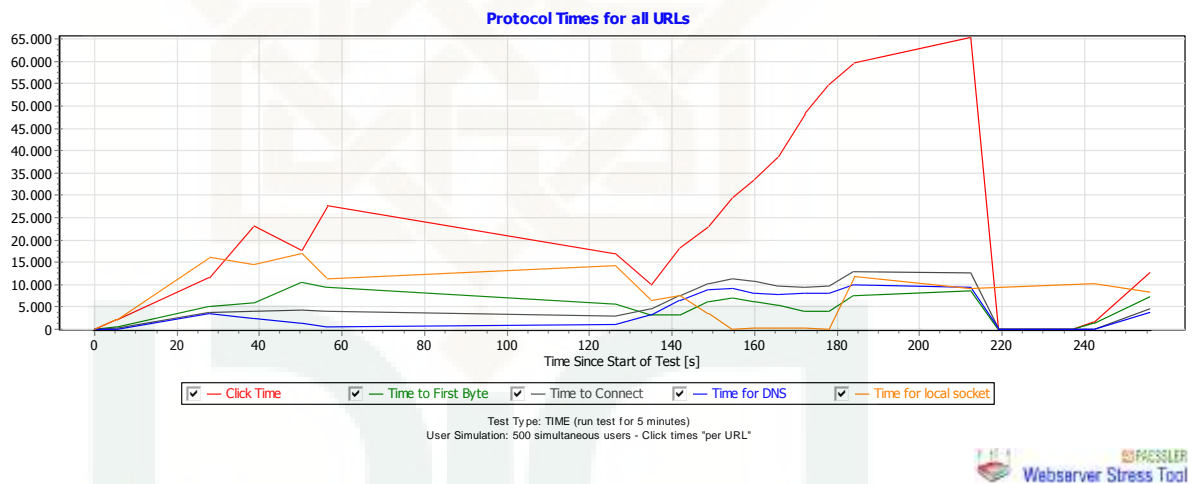
07/07/2016 1:37:05

Test Report

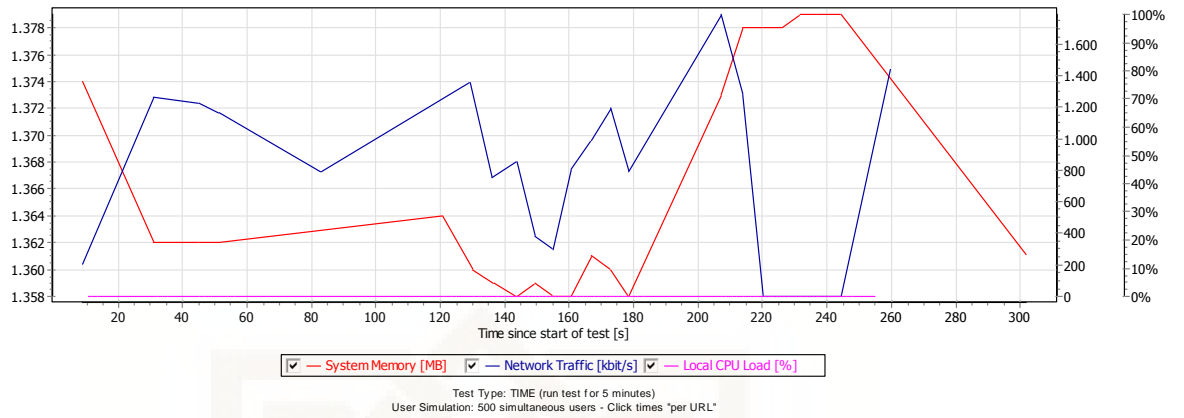
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

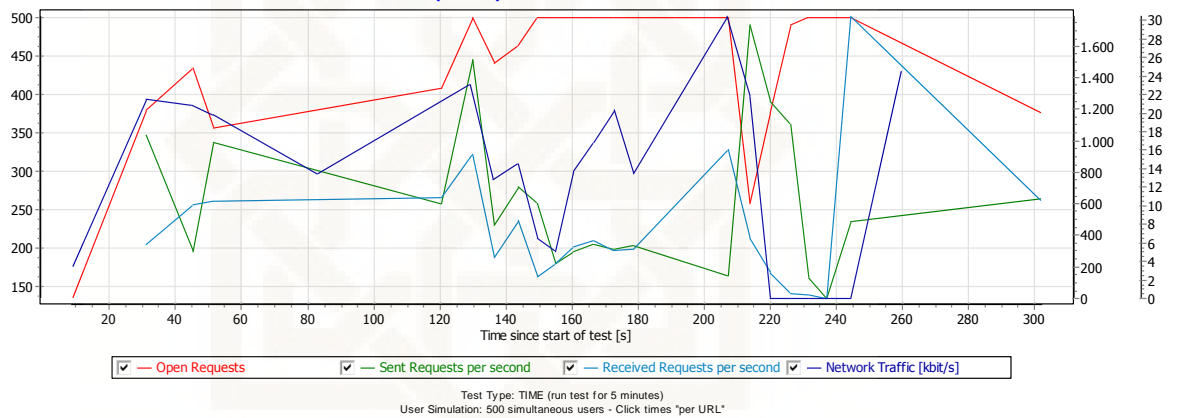
User Simulation: 500 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

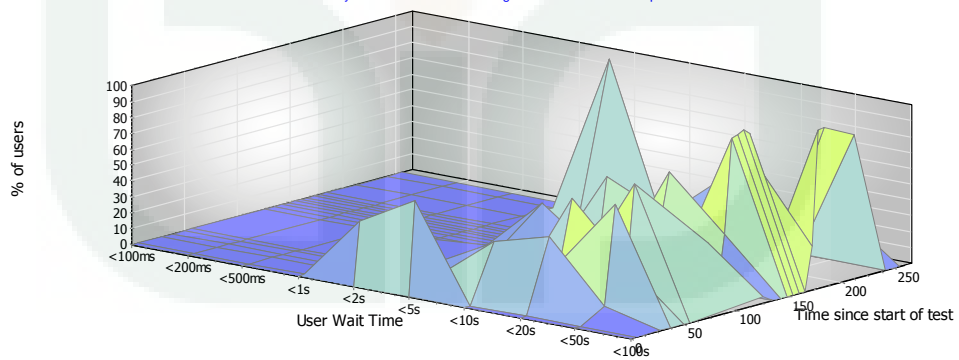


Open Requests & Transferred Data

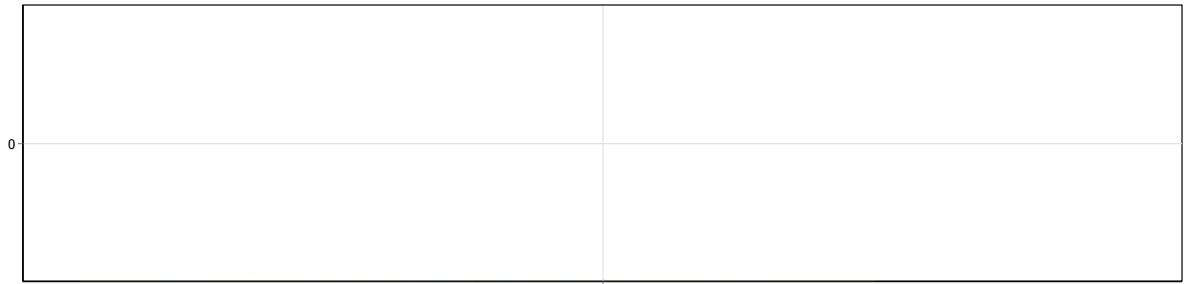


Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



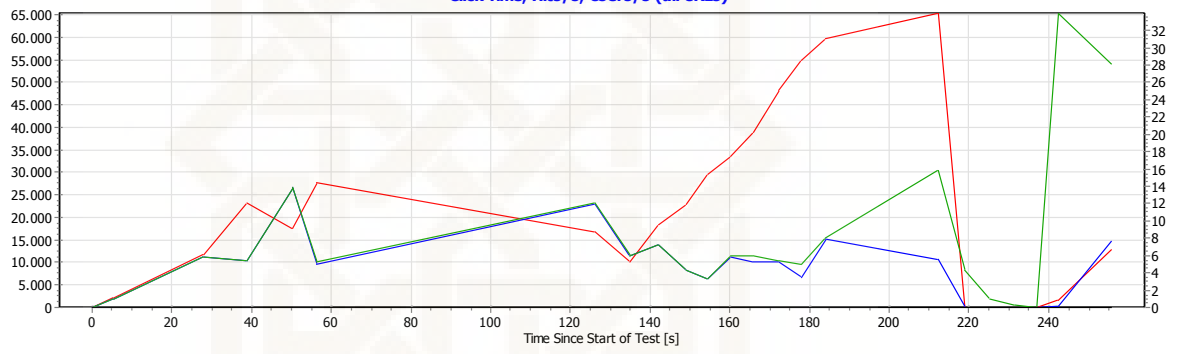
Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!



Pages Images Frames Errors
Test Type: TIME (run test for 5 minutes)
User Simulation: 500 simultaneous users - Click times 'per URL'



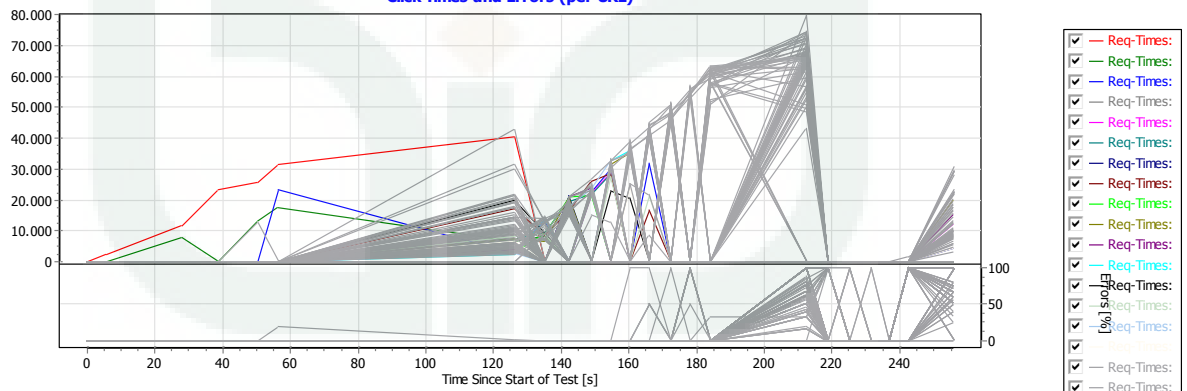
Click Time, Hits/s, Users/s (all URLs)



Click Time [ms] Clicks per Second Hits per Second
Test Type: TIME (run test for 5 minutes)
User Simulation: 500 simultaneous users - Click times 'per URL'



Click Times and Errors (per URL)



Test Type: TIME (run test for 5 minutes)
User Simulation: 500 simultaneous users - Click times 'per URL'



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		500	0	0,00	14.298.501	28.597
2		500	6	1,20	4.108.993	8.318
3		12	3	25,00	130.967	14.552
4		10	5	50,00	44.511	8.902
5		15	9	60,00	108.455	18.076
6		23	9	39,13	226.451	16.175
7		11	9	81,82	25.482	12.741
8		13	7	53,85	112.857	18.809
9		15	9	60,00	61.283	10.214
10		18	7	38,89	170.882	15.535
11		14	3	21,43	190.706	17.337
12		16	10	62,50	88.744	14.791
13		11	5	45,45	112.656	18.776
14		16	8	50,00	97.806	12.226
15		16	8	50,00	171.286	21.411
16		15	6	40,00	68.508	7.612
17		15	9	60,00	131.688	21.948
18		19	9	47,37	166.945	16.694
19		14	5	35,71	260.077	28.897
20		15	10	66,67	221.648	44.330
21		15	7	46,67	313.938	39.242
22		13	11	84,62	30.224	15.112
23		12	7	58,33	152.203	30.441
24		19	13	68,42	212.588	35.431
25		18	8	44,44	478.065	47.806
26		15	11	73,33	82.313	20.578
27		14	7	50,00	120.380	17.197
28		9	4	44,44	65.135	13.027
29		19	7	36,84	162.612	13.551
30		16	9	56,25	254.929	36.418
31		17	7	41,18	192.650	19.265
32		18	9	50,00	318.434	35.382
33		17	8	47,06	234.792	26.088
34		22	7	31,82	592.793	39.520
35		15	6	40,00	334.502	37.167
36		11	7	63,64	231.261	57.815

37		18	9	50,00	251.831	27.981
38		11	8	72,73	130.868	43.623
39		16	9	56,25	130.735	18.676
40		15	4	26,67	439.615	39.965
41		21	7	33,33	525.829	37.559
42		10	4	40,00	291.453	48.576
43		24	8	33,33	674.682	42.168
44		15	8	53,33	275.690	39.384
45		12	7	58,33	179.653	35.931
46		15	4	26,67	398.059	36.187
47		15	6	40,00	400.120	44.458
48		16	9	56,25	238.837	34.120
49		16	6	37,50	238.603	23.860
50		15	7	46,67	253.351	31.669
51		11	8	72,73	111.483	37.161
52		13	9	69,23	92.101	23.025
53		21	9	42,86	405.166	33.764
54		13	10	76,92	63.865	21.288
55		13	6	46,15	286.644	40.949
56		7	3	42,86	227.914	56.979
57		15	8	53,33	373.295	53.328
58		11	4	36,36	255.126	36.447
59		12	8	66,67	115.094	28.773
60		14	6	42,86	206.716	25.839
61		18	7	38,89	300.611	27.328
62		13	10	76,92	58.067	19.356
63		10	4	40,00	211.727	35.288
64		17	6	35,29	298.518	27.138
65		16	4	25,00	196.294	16.358
66		22	12	54,55	437.648	43.765
67		15	7	46,67	433.270	54.159
68		15	8	53,33	341.111	48.730
69		18	7	38,89	330.645	30.059
70		14	9	64,29	202.659	40.532
71		15	8	53,33	386.521	55.217
72		11	5	45,45	114.961	19.160
73		16	11	68,75	43.906	8.781
74		20	6	30,00	376.052	26.861
75		11	7	63,64	193.194	48.298
76		18	10	55,56	279.651	34.956

77		24	11	45,83	306.232	23.556
78		14	7	50,00	227.008	32.430
79		14	7	50,00	118.960	16.994
80		19	8	42,11	384.688	34.972
81		10	5	50,00	103.077	20.615
82		22	12	54,55	444.921	44.492
83		24	8	33,33	448.437	28.027
84		5	4	80,00	21.480	21.480
85		10	4	40,00	79.734	13.289
86		12	10	83,33	68.765	34.382
87		15	9	60,00	214.926	35.821
88		17	11	64,71	176.874	29.479
89		19	11	57,89	369.276	46.160
90		15	10	66,67	180.329	36.066
91		13	9	69,23	145.146	36.286
92		18	11	61,11	297.556	42.508
93		17	12	70,59	282.481	56.496
94		18	6	33,33	482.794	40.233
95		18	11	61,11	179.667	25.667
96		10	8	80,00	56.069	28.035
97		18	9	50,00	212.565	23.618
98		26	14	53,85	475.509	39.626
99		8	3	37,50	119.564	23.913
100		20	7	35,00	424.801	32.677
101		17	7	41,18	372.952	37.295
102		13	4	30,77	410.008	45.556
103		18	11	61,11	264.404	37.772
104		9	4	44,44	123.357	24.671
105		13	7	53,85	241.048	40.175
106		16	3	18,75	99.075	7.621
107		13	7	53,85	101.615	16.936

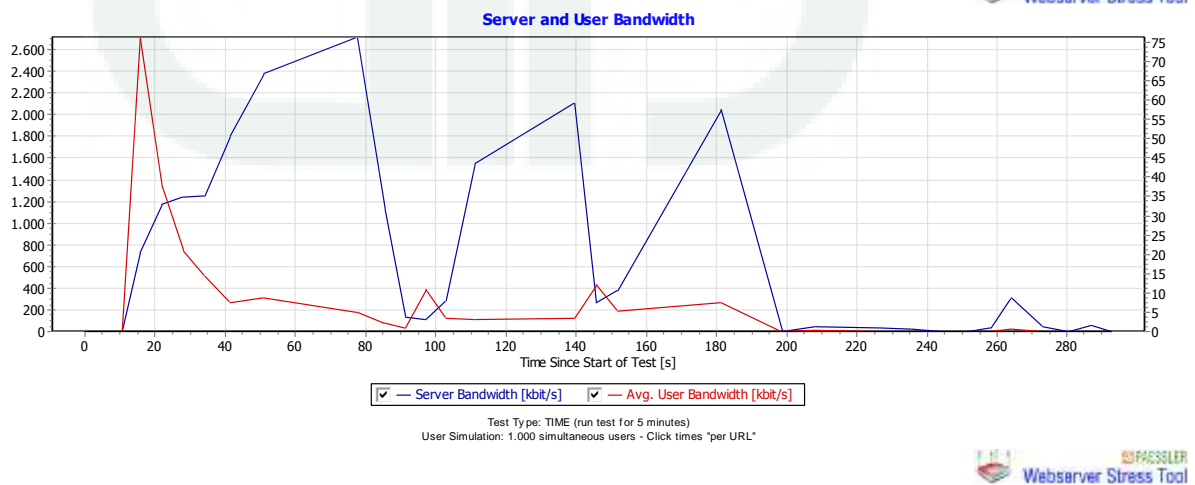
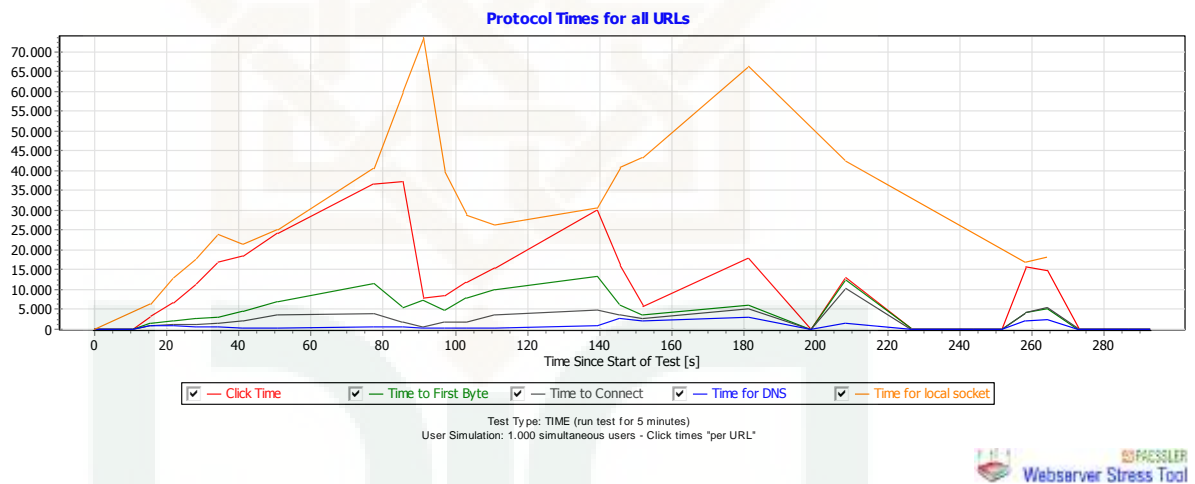
07/07/2016 7:29:36

Test Report

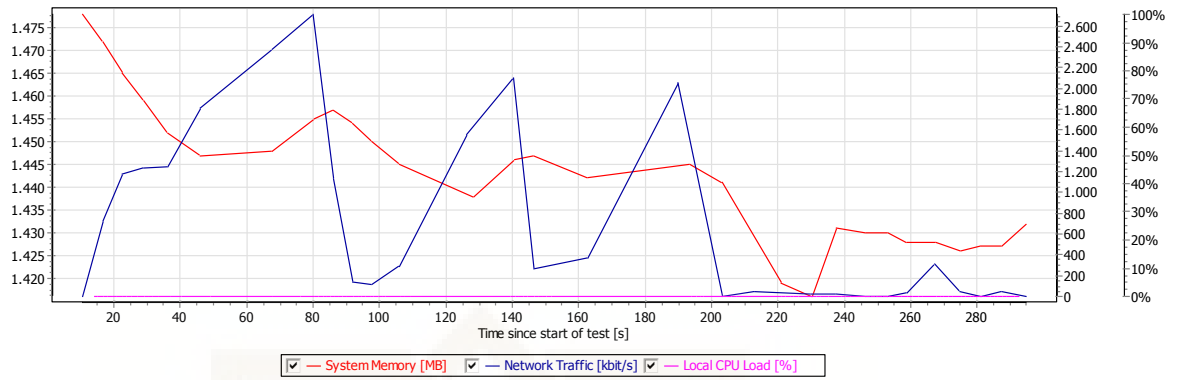
Webserver Load Performance Stress Test

Test Type: TIME (run test for 5 minutes)

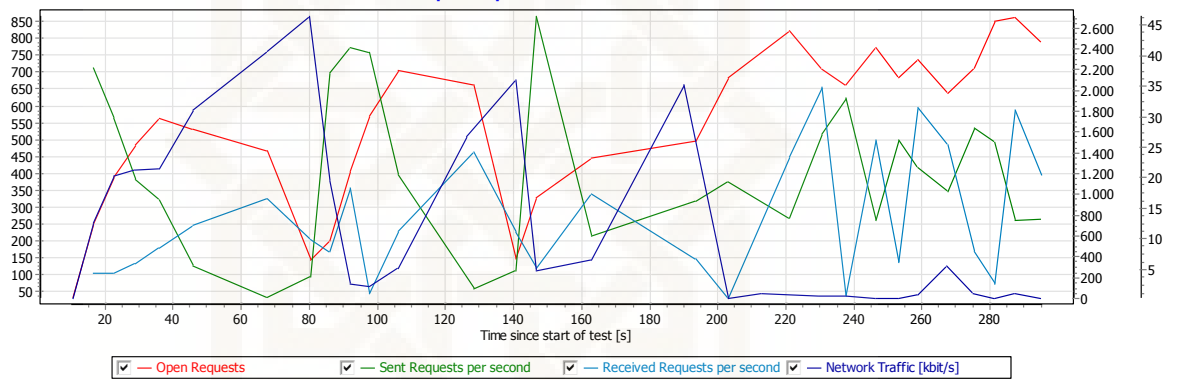
User Simulation: 1.000 simultaneous users - Click times "per URL"



Transferred Data & System Memory & CPU Load

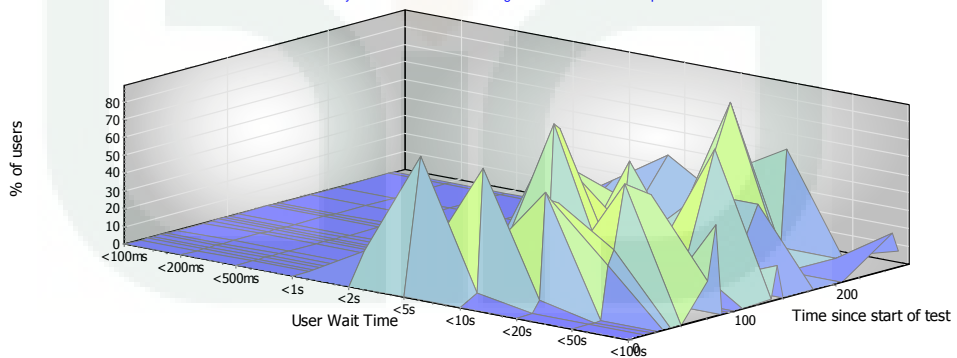


Open Requests & Transferred Data



Spectrum of Click Times

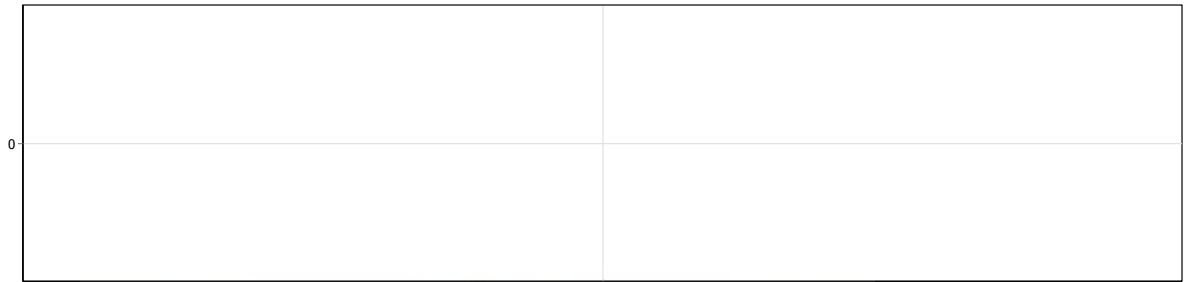
"How many users waited for how long under what load to complete a click?"



Test Type: TIME (run test for 5 minutes)
User Simulation: 1.000 simultaneous users - Click times *per URL*



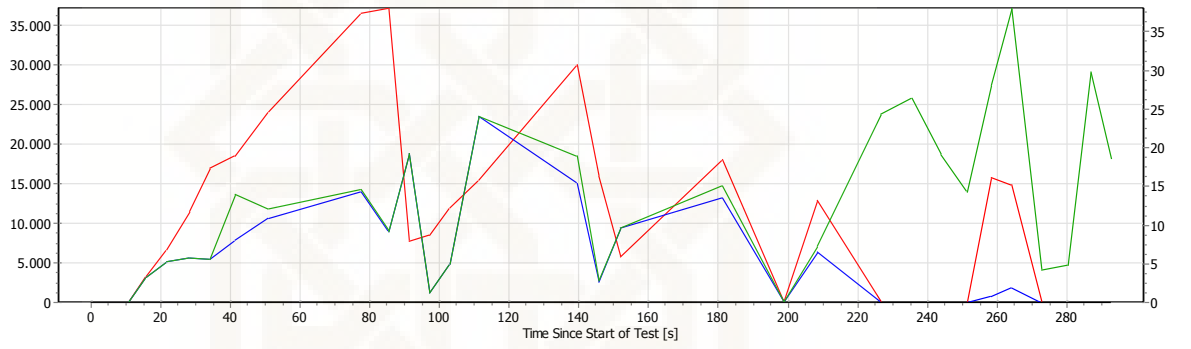
Hierarchy and Times of All Hits
Graph is disabled for more than 100 users!



Pages Images Frames Errors
Test Type: TIME (run test for 5 minutes)
User Simulation: 1.000 simultaneous users - Click times *per URL*



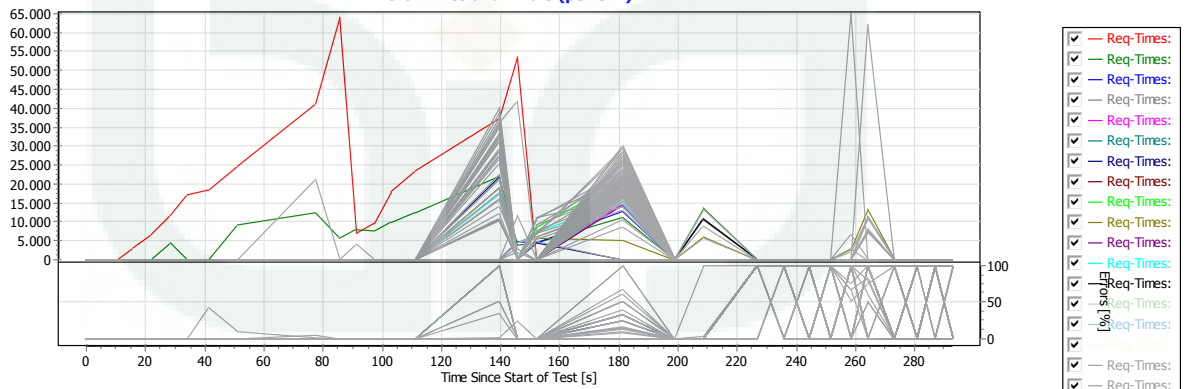
Click Time, Hits/s, Users/s (all URLs)



Click Time [ms] Clicks per Second Hits per Second
Test Type: TIME (run test for 5 minutes)
User Simulation: 1.000 simultaneous users - Click times *per URL*



Click Times and Errors (per URL)



Test Type: TIME (run test for 5 minutes)
User Simulation: 1.000 simultaneous users - Click times *per URL*



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		1.000	71	7,10	30.380.353	32.702
2		977	246	25,18	9.467.213	12.951
3		20	17	85,00	21.660	7.220
4		23	17	73,91	56.349	9.392
5		17	15	88,24	29.270	14.635
6		24	22	91,67	30.875	15.437
7		18	14	77,78	47.768	11.942
8		17	13	76,47	80.914	20.228
9		22	17	77,27	79.078	15.816
10		27	20	74,07	70.654	10.093
11		14	12	85,71	28.556	14.278
12		23	18	78,26	61.867	12.373
13		17	10	58,82	97.965	13.995
14		18	15	83,33	52.456	17.485
15		16	13	81,25	59.687	19.896
16		21	18	85,71	29.969	9.990
17		13	9	69,23	44.954	11.239
18		20	15	75,00	55.489	11.098
19		16	14	87,50	39.769	19.885
20		18	12	66,67	156.655	26.109
21		16	10	62,50	150.300	25.050
22		19	14	73,68	95.229	19.046
23		23	19	82,61	86.598	21.649
24		11	9	81,82	55.644	27.822
25		14	7	50,00	142.276	20.325
26		23	18	78,26	83.413	16.683
27		20	13	65,00	66.417	9.488
28		11	11	100,00	0	
29		21	17	80,95	29.270	7.317
30		18	15	83,33	81.919	27.306
31		21	19	90,48	59.083	29.541
32		24	18	75,00	140.899	23.483
33		16	14	87,50	49.375	24.687
34		18	14	77,78	82.179	20.545
35		18	16	88,89	35.018	17.509
36		18	15	83,33	83.467	27.822

37		19	15	78,95	74.438	18.609
38		16	11	68,75	99.662	19.932
39		19	14	73,68	81.149	16.230
40		21	18	85,71	65.307	21.769
41		24	19	79,17	110.469	22.094
42		22	17	77,27	94.020	18.804
43		20	15	75,00	83.895	16.779
44		18	17	94,44	17.732	17.732
45		22	19	86,36	55.724	18.575
46		17	15	88,24	36.733	18.367
47		28	23	82,14	95.614	19.123
48		20	14	70,00	114.362	19.060
49		19	18	94,74	28.440	28.440
50		15	14	93,33	11.238	11.238
51		18	15	83,33	52.977	17.659
52		18	13	72,22	75.548	15.110
53		18	14	77,78	116.622	29.155
54		15	13	86,67	51.711	25.855
55		25	20	80,00	83.848	16.770
56		26	19	73,08	125.179	17.883
57		23	19	82,61	84.084	21.021
58		22	16	72,73	136.802	22.800
59		20	16	80,00	85.030	21.258
60		16	11	68,75	70.323	14.065
61		11	10	90,91	20.615	20.615
62		16	13	81,25	89.805	29.935
63		28	16	57,14	242.742	20.228
64		19	13	68,42	106.957	17.826
65		14	13	92,86	4.661	4.661
66		24	22	91,67	34.169	17.085
67		26	23	88,46	54.254	18.085
68		17	14	82,35	76.819	25.606
69		20	17	85,00	56.924	18.975
70		14	8	57,14	160.327	26.721
71		26	18	69,23	161.045	20.131
72		14	13	92,86	16.682	16.682
73		30	24	80,00	123.117	20.520
74		20	12	60,00	179.215	22.402
75		18	14	77,78	78.244	19.561
76		11	8	72,73	49.389	16.463

77		18	15	83,33	56.219	18.740
78		24	18	75,00	102.078	17.013
79		24	20	83,33	114.528	28.632
80		17	14	82,35	81.105	27.035
81		13	11	84,62	44.197	22.099
82		15	12	80,00	67.940	22.647
83		24	19	79,17	109.563	21.913
84		27	23	85,19	87.445	21.861
85		21	17	80,95	105.383	26.346
86		20	18	90,00	46.272	23.136
87		17	15	88,24	31.267	15.634
88		16	12	75,00	124.899	31.225
89		16	16	100,00	0	
90		20	16	80,00	84.051	21.013
91		18	17	94,44	36.838	36.838
92		17	13	76,47	67.673	16.918
93		20	16	80,00	83.663	20.916
94		22	19	86,36	59.007	19.669
95		24	21	87,50	69.702	23.234
96		19	17	89,47	44.030	22.015
97		14	12	85,71	50.545	25.273
98		18	13	72,22	137.458	27.492
99		17	15	88,24	40.201	20.100
100		19	16	84,21	47.132	15.711
101		16	13	81,25	57.029	19.010
102		19	15	78,95	85.388	21.347
103		14	14	100,00	0	
104		27	17	62,96	208.552	20.855
105		30	24	80,00	107.873	17.979
106		19	13	68,42	41.209	6.868
107		18	13	72,22	121.936	24.387

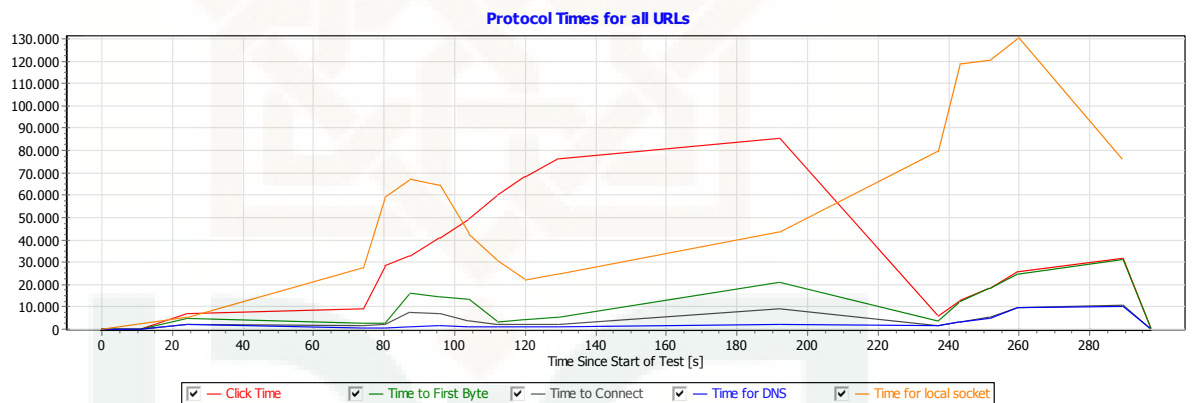
07/07/2016 12:49:54

Test Report

Webserver Load Performance Stress Test

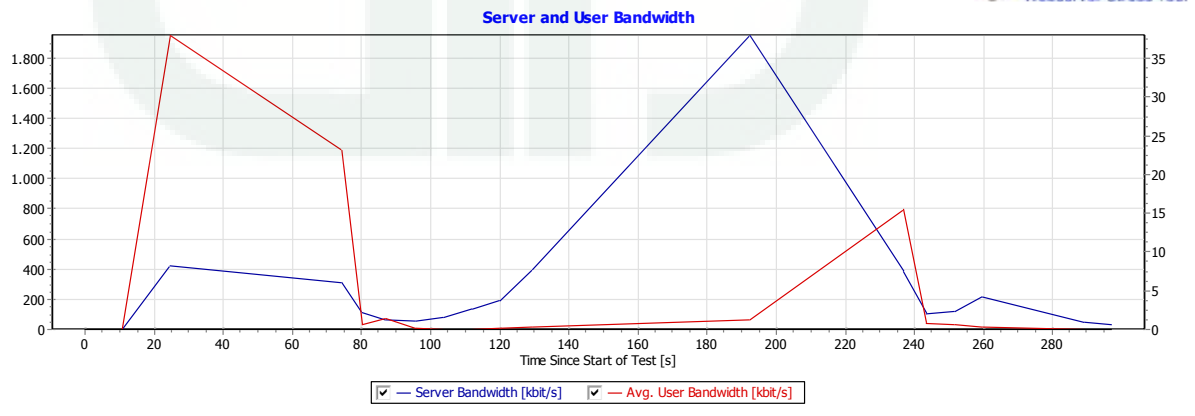
Test Type: TIME (run test for 5 minutes)

User Simulation: 2.000 simultaneous users - Click times "per URL"



Test Type: TIME (run test for 5 minutes)
 User Simulation: 2.000 simultaneous users - Click times "per URL"

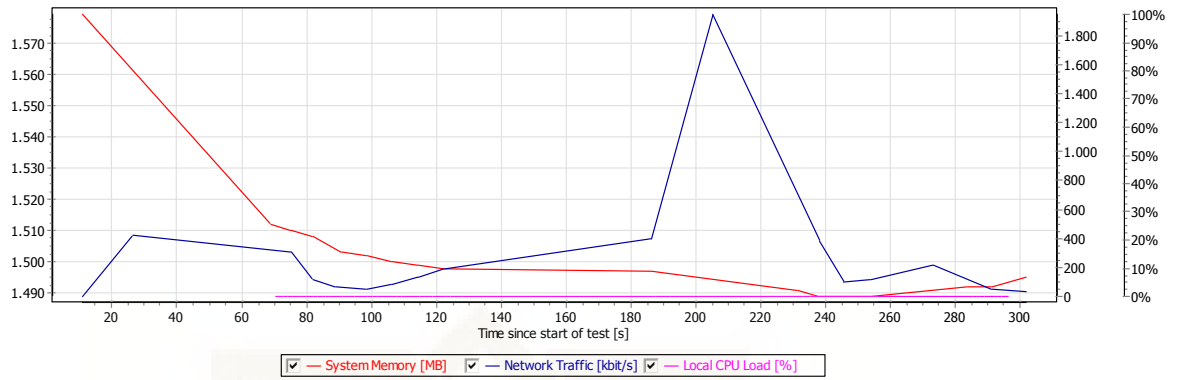
Webserver Stress Tool



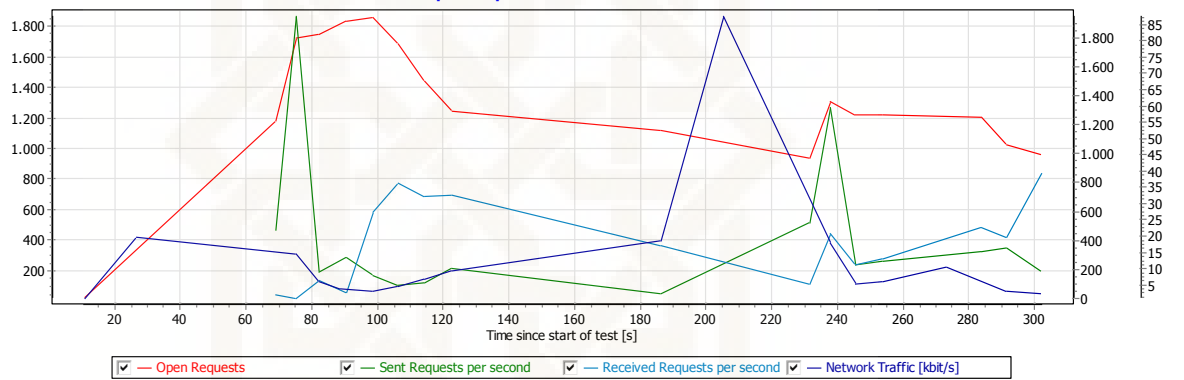
Test Type: TIME (run test for 5 minutes)
 User Simulation: 2.000 simultaneous users - Click times "per URL"

Webserver Stress Tool

Transferred Data & System Memory & CPU Load

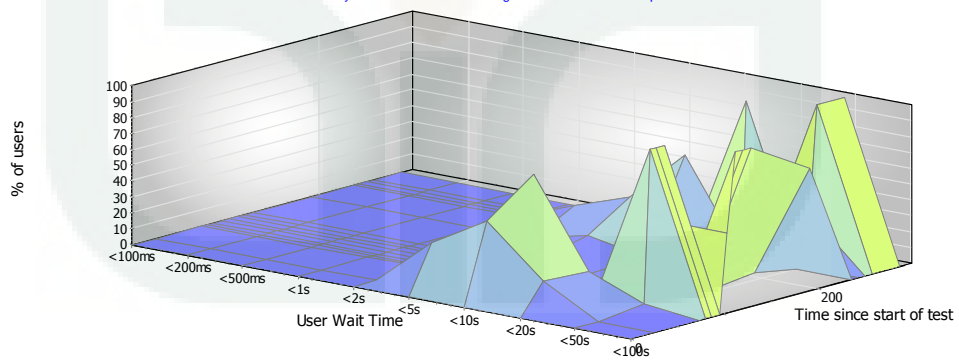


Open Requests & Transferred Data



Spectrum of Click Times

"How many users waited for how long under what load to complete a click?"



Results per URL

URL No.	Name	Clicks	Errors	Errors [%]	Time Spent [ms]	Avg. Click Time [ms]
1		2.000	1.367	68,35	52.014.801	82.172
2		1.614	764	47,34	18.233.541	21.451
3		4	4	100,00	0	
4		5	4	80,00	8.649	8.649
5		1	0	0,00	1.752	1.752
6		6	3	50,00	20.169	6.723
7		2	1	50,00	7.818	7.818
8		2	1	50,00	6.819	6.819
9		3	2	66,67	1.201	1.201
10		7	4	57,14	10.170	3.390
11		1	1	100,00	0	
12		4	2	50,00	9.088	4.544
13		4	0	0,00	20.683	5.171
14		5	2	40,00	7.621	2.540
15		5	4	80,00	2.367	2.367
16		3	2	66,67	9.475	9.475
17		2	2	100,00	0	
18		4	0	0,00	7.999	2.000
19		2	2	100,00	0	
20		4	4	100,00	0	
21		3	2	66,67	4.402	4.402
22		1	0	0,00	9.006	9.006
23		0	0		0	
24		0	0		0	
25		1	0	0,00	2.885	2.885
26		1	0	0,00	7.837	7.837
27		9	6	66,67	11.863	3.954
28		2	1	50,00	2.087	2.087
29		6	4	66,67	10.977	5.488
30		4	4	100,00	0	
31		2	1	50,00	8.622	8.622
32		5	3	60,00	11.765	5.883
33		1	1	100,00	0	
34		4	4	100,00	0	
35		1	0	0,00	6.219	6.219
36		5	3	60,00	10.605	5.303

37		2	1	50,00	4.433	4.433
38		4	2	50,00	8.414	4.207
39		3	3	100,00	0	
40		2	1	50,00	8.176	8.176
41		7	7	100,00	0	
42		5	3	60,00	5.905	2.953
43		3	3	100,00	0	
44		6	5	83,33	9.352	9.352
45		2	2	100,00	0	
46		4	1	25,00	24.882	8.294
47		1	1	100,00	0	
48		2	2	100,00	0	
49		6	3	50,00	33.804	11.268
50		5	5	100,00	0	
51		2	2	100,00	0	
52		2	1	50,00	3.833	3.833
53		3	3	100,00	0	
54		3	2	66,67	9.127	9.127
55		5	4	80,00	2.854	2.854
56		1	1	100,00	0	
57		2	1	50,00	3.313	3.313
58		1	0	0,00	7.173	7.173
59		4	4	100,00	0	
60		2	2	100,00	0	
61		2	0	0,00	6.845	3.423
62		7	4	57,14	70.240	23.413
63		1	1	100,00	0	
64		8	2	25,00	157.127	26.188
65		5	1	20,00	50.287	12.572
66		4	4	100,00	0	
67		3	3	100,00	0	
68		2	2	100,00	0	
69		6	4	66,67	12.398	6.199
70		0	0		0	
71		7	5	71,43	11.455	5.728
72		2	1	50,00	5.201	5.201
73		7	5	71,43	14.562	7.281
74		1	1	100,00	0	
75		2	2	100,00	0	
76		2	2	100,00	0	

77		2	1	50,00	5.549	5.549
78		6	4	66,67	13.344	6.672
79		1	0	0,00	3.945	3.945
80		4	2	50,00	12.170	6.085
81		4	4	100,00	0	
82		4	1	25,00	25.308	8.436
83		3	2	66,67	3.665	3.665
84		4	2	50,00	9.397	4.698
85		4	3	75,00	4.171	4.171
86		4	2	50,00	13.579	6.790
87		4	3	75,00	3.127	3.127
88		3	2	66,67	6.254	6.254
89		4	4	100,00	0	
90		3	2	66,67	5.399	5.399
91		3	1	33,33	8.410	4.205
92		2	2	100,00	0	
93		1	1	100,00	0	
94		4	4	100,00	0	
95		4	4	100,00	0	
96		5	3	60,00	14.155	7.077
97		2	0	0,00	30.620	15.310
98		5	2	40,00	20.000	6.667
99		1	0	0,00	5.771	5.771
100		1	1	100,00	0	
101		4	2	50,00	9.133	4.567
102		2	2	100,00	0	
103		4	2	50,00	14.129	7.065
104		4	4	100,00	0	
105		3	2	66,67	5.362	5.362
106		10	2	20,00	64.808	8.101
107		5	3	60,00	15.532	7.766

CURICULUM VITAE

Nama : Hanif Taqdimullah As-Shidiq

Tempat/Tanggal Lahir: Tasikmalaya, 13 Juni 1992

Jenis Kelamin : Laki-laki

Status : Belum Menikah

Agama : Islam

Kewarganegaraan : Indonesia

Golongan Darah : A

Hobi : *Hiking and Gaming*

E-mail : hanif.taqdimullah@gmail.com



Riwayat Pendidikan

1998-1999 : TK Islam Al-Falah

1999-2005 : MI Cisaray

2005-2008 : MTs PERSIS 67 Benda

2008-2011 : MA PERSIS 67 Benda

2011-2016 : S1 Teknik Informatika UIN Sunan Kalijaga Yogyakarta