



Ingeniería Informática del Software

Diseño y Pruebas

Informe jMeter – D12: Item 6.

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Introducción

En las próximas páginas se mostrará un análisis de las pruebas realizadas con la herramienta jMeter sobre nuestro proyecto.

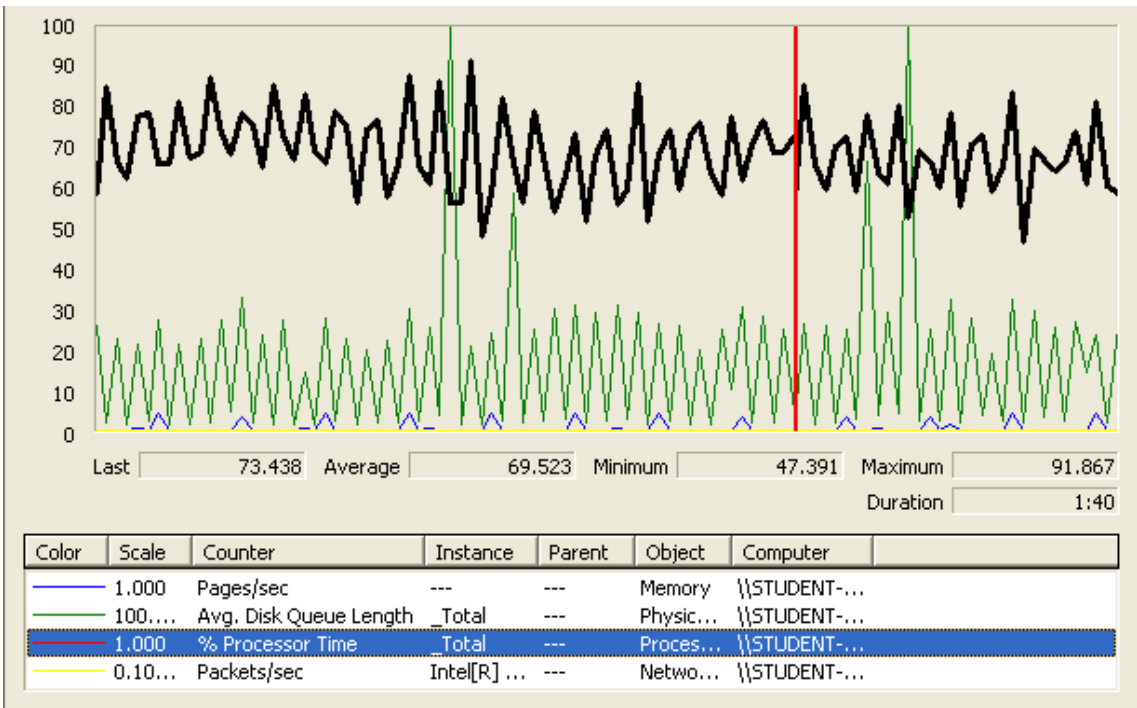
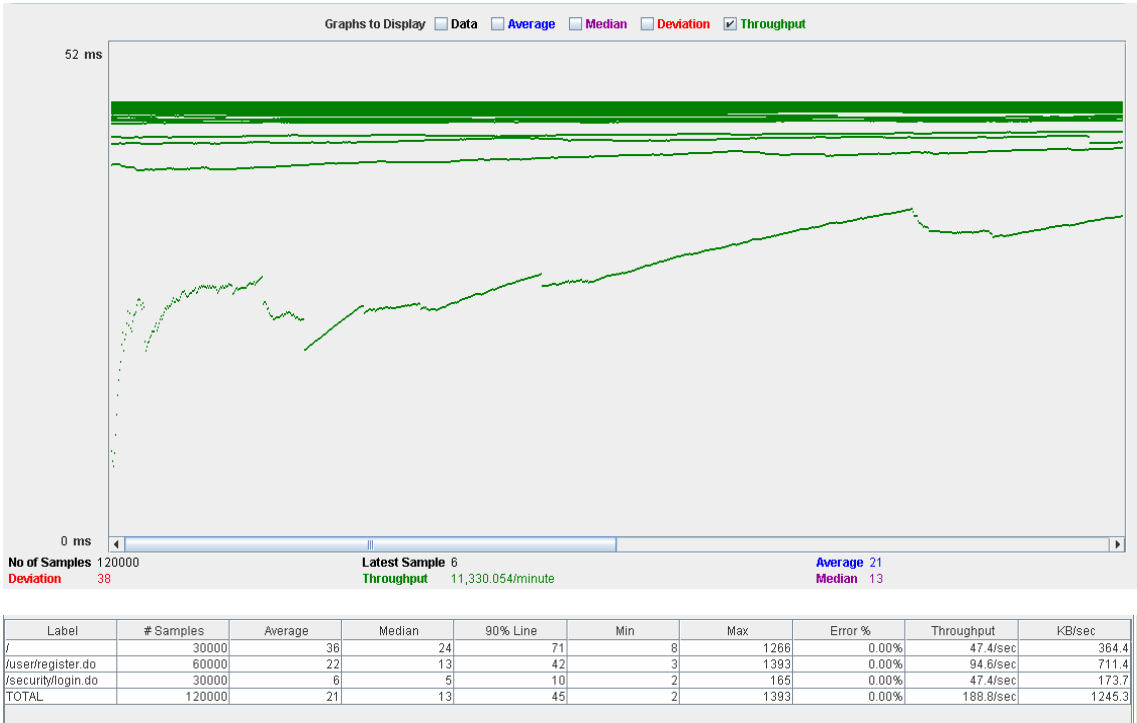
Se destacará cual es el máximo rendimiento del sistema y se mostrarán capturas que lo confirmen.

Análisis máximo rendimiento

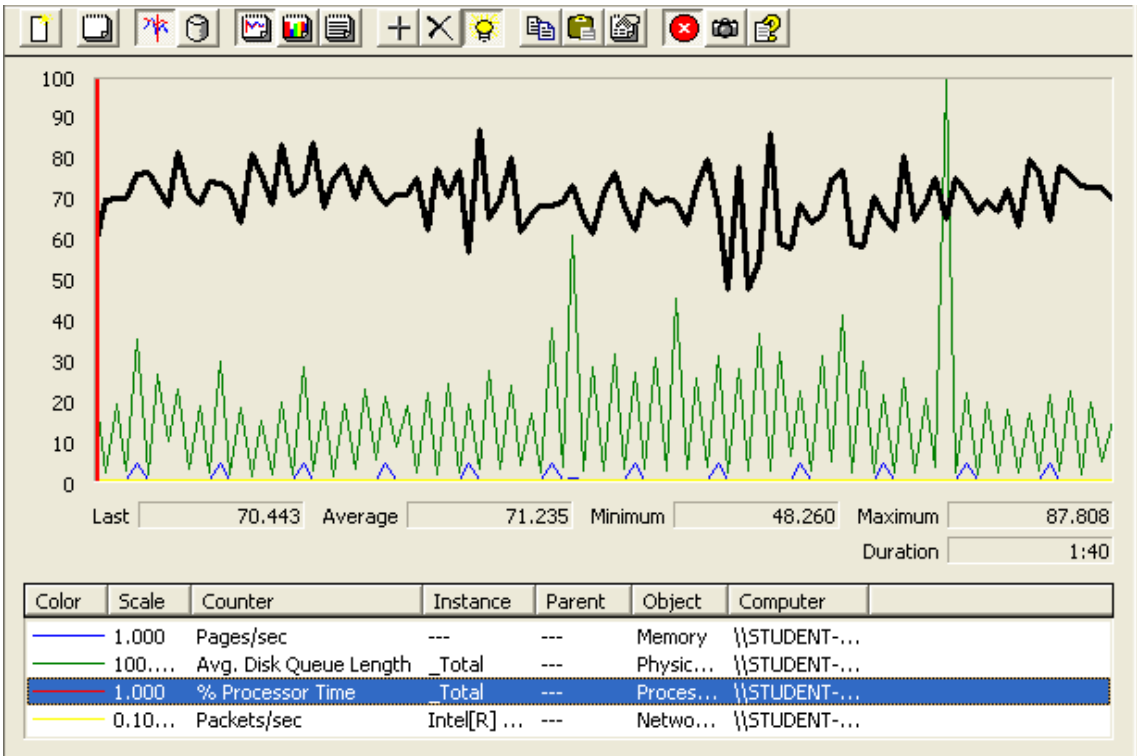
Mediante el uso de jMeter hemos obtenido un script para cada caso de uso. Para cada uno de ellos se han realizado pruebas primero comenzando con 10,20,50,100,150 y 200 usuarios. Al usar una carga de 200 usuarios ya comenzaba a dar fallos en la mayoría de casos de uso, así que al final quedamos en hacer los casos de uso con 150 usuarios y 200 repeticiones.

Todos los test tendrán los resultados en forma de grafo, con números y además de una imagen del rendimiento, destacando el cuello de botella.

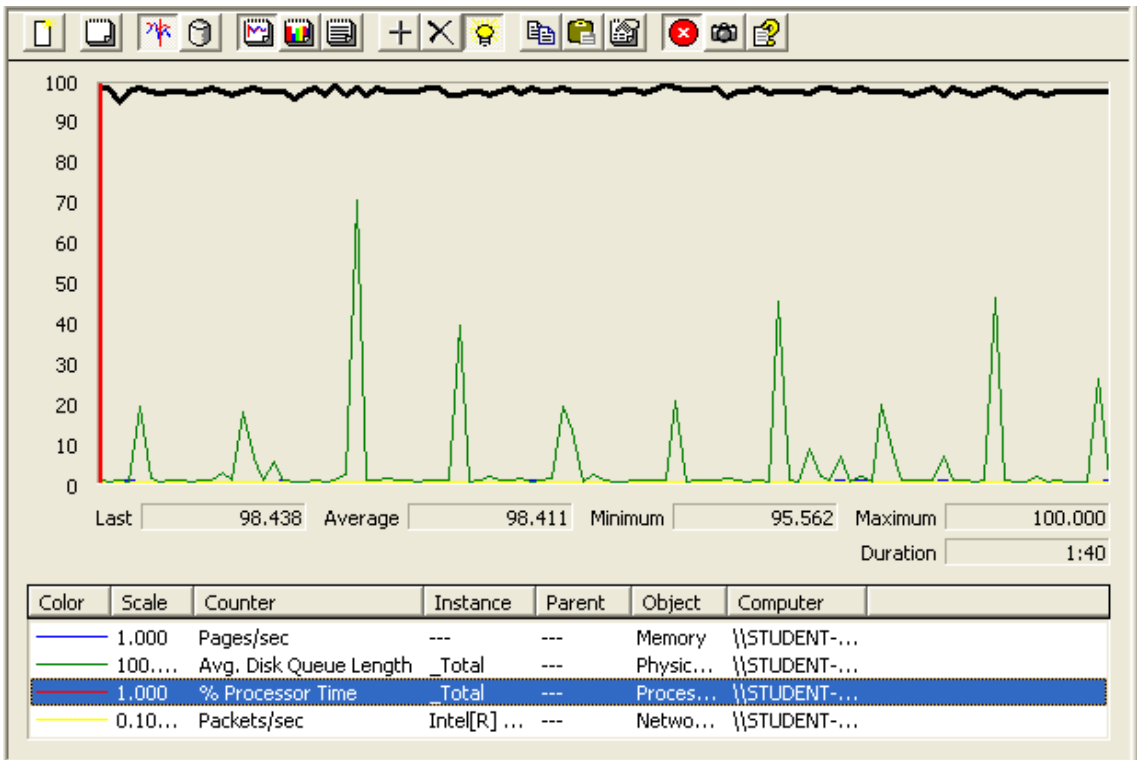
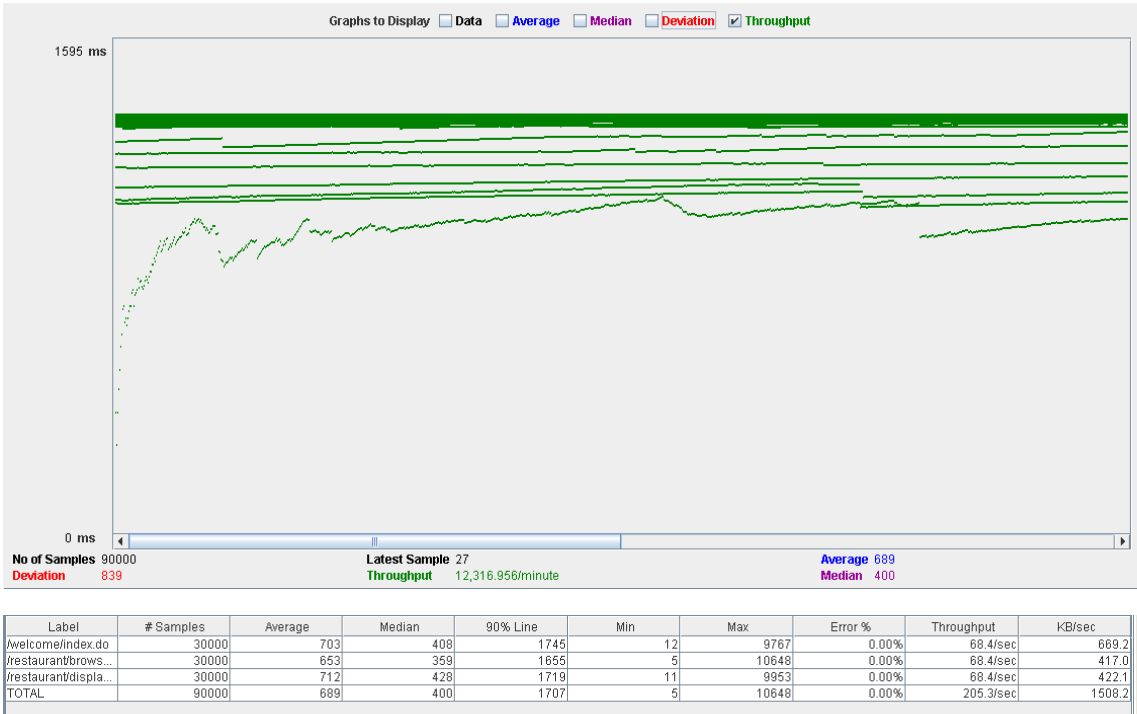
Register as user



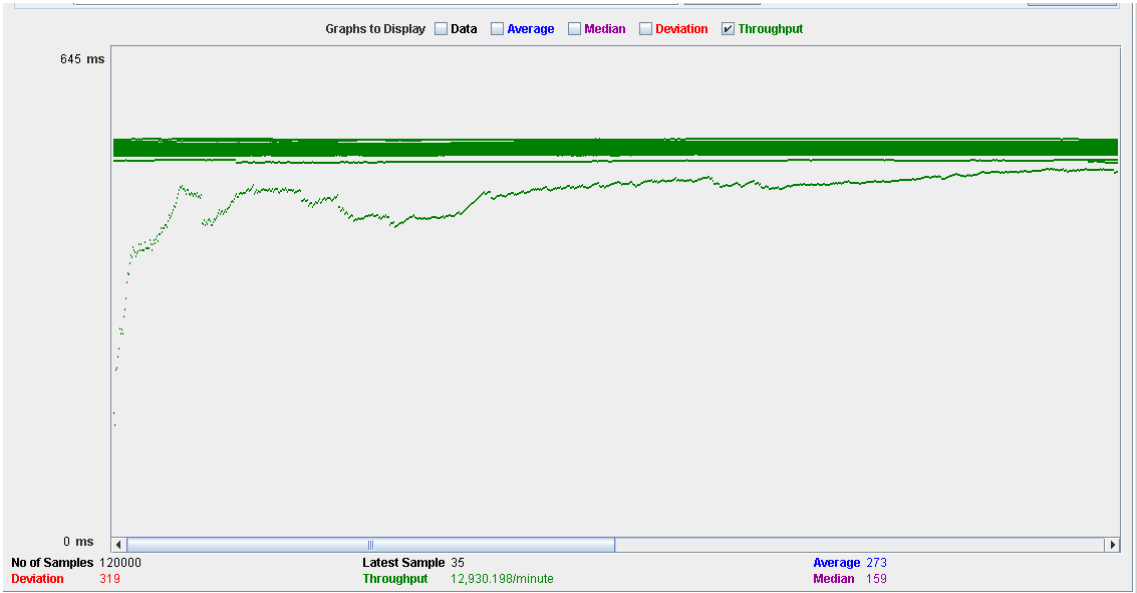
Register as manager



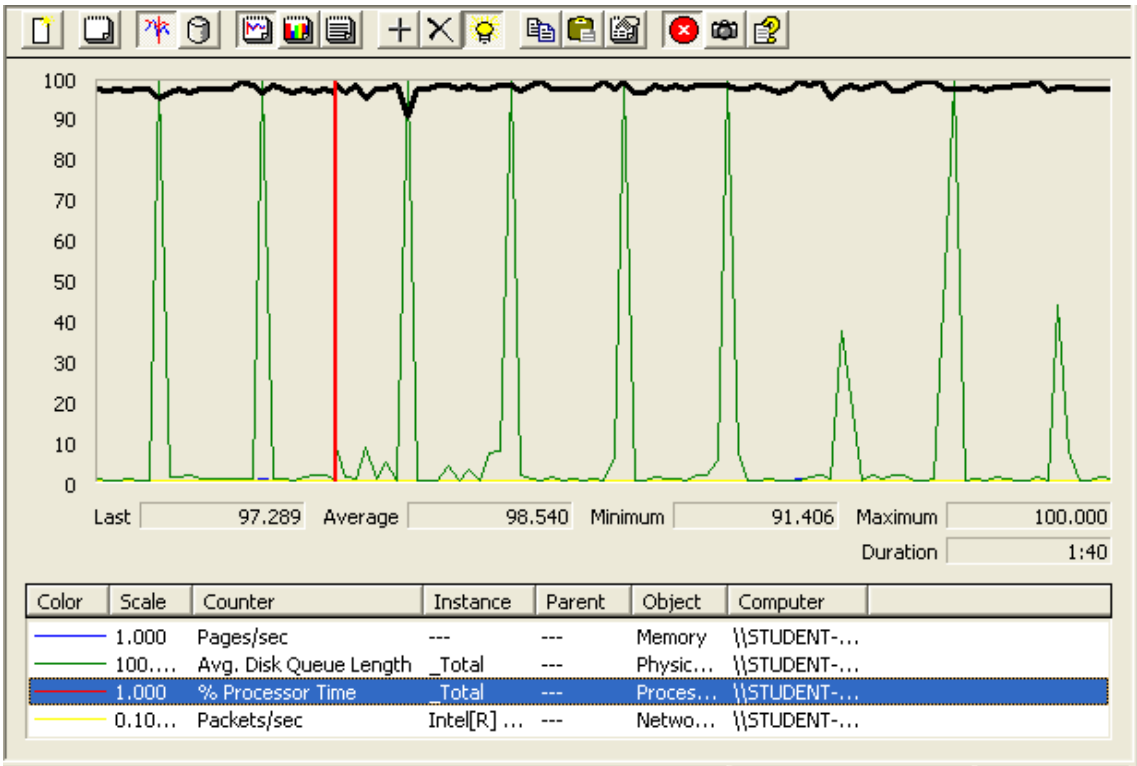
Browse Restaurants



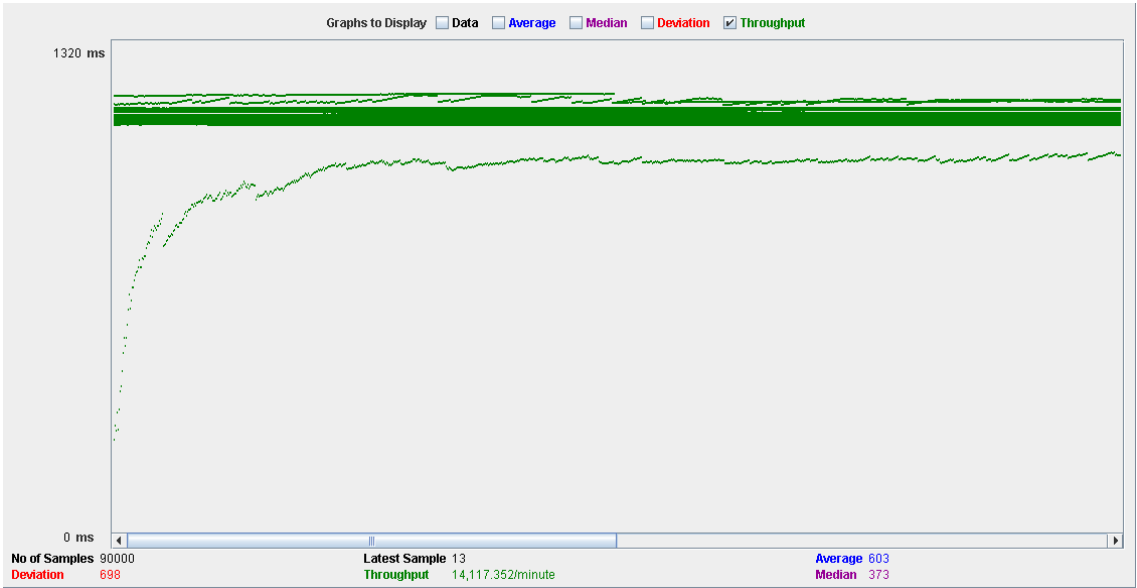
Search Restaurant



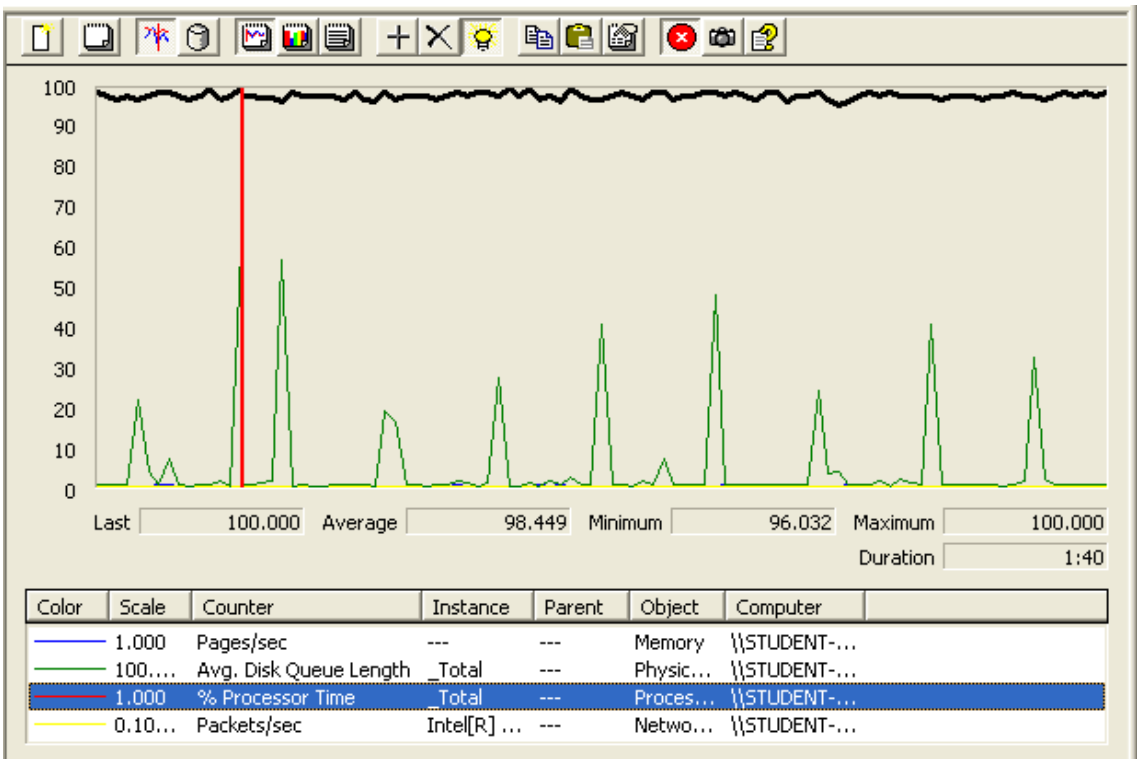
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Awelcome/index.do	30000	279	166	654	9	4579	0.00%	54.0/sec	507.3
/restaurant/brows...	30000	242	126	621	5	4100	0.00%	54.0/sec	329.2
/restaurant/search...	30000	276	162	679	5	3954	0.00%	54.0/sec	244.3
/restaurant/displa...	30000	296	182	692	9	4439	0.00%	54.0/sec	353.4
TOTAL	120000	273	159	664	5	4579	0.00%	215.5/sec	1430.0



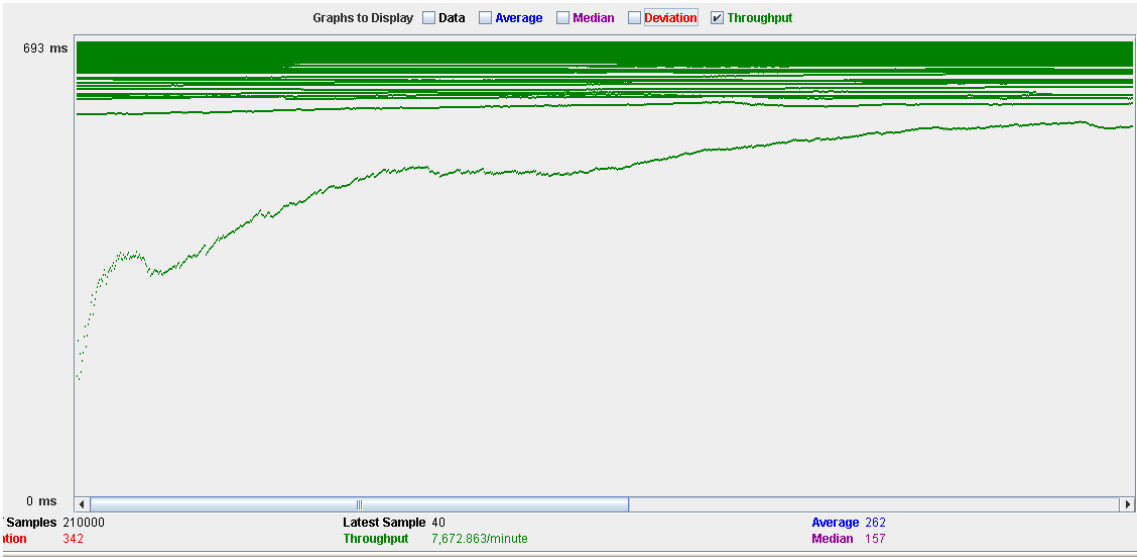
Browse Reviews



Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/welcome/index.do	30000	629	399	1480	12	8341	0.00%	78.4/sec	776.4
/review/browse.do	30000	588	360	1428	7	9777	0.00%	78.4/sec	342.3
/review/display.do	30000	593	360	1449	5	8783	0.00%	78.4/sec	319.1
TOTAL	90000	603	373	1453	5	9777	0.00%	235.3/sec	1437.7



Like a Review



Aggregate Report

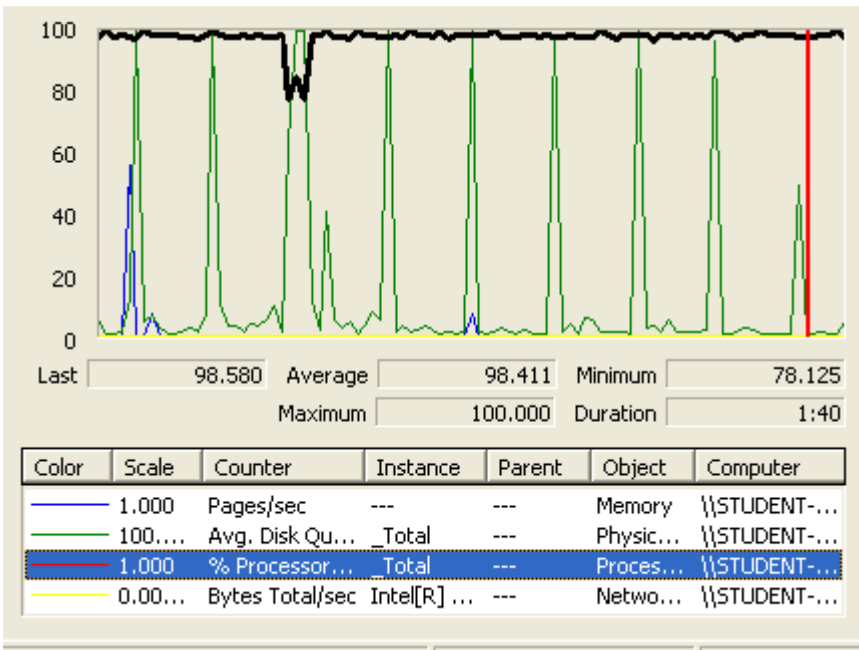
Name:

Comments:

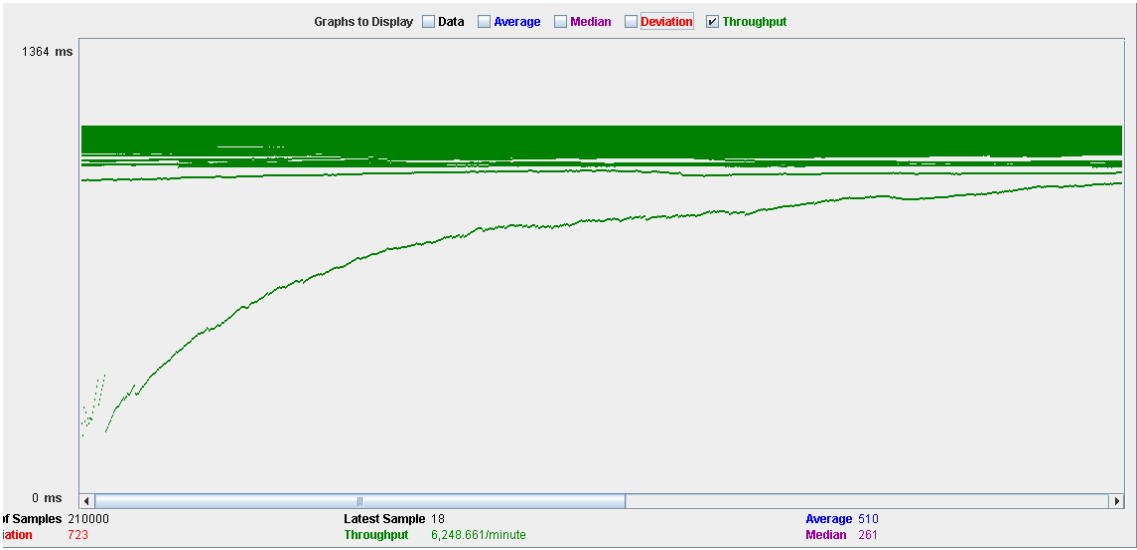
Write results to file / Read from file

Filename Log Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	278	196	575	12	6594	0.00%	36.7/sec	377.1
/security/login.do	30000	19	15	37	2	473	0.00%	18.3/sec	67.1
/j_spring_security_check	30000	512	381	1056	17	6331	0.00%	18.3/sec	192.0
/review/browse.do	30000	228	134	514	7	4158	0.00%	18.3/sec	84.2
/review/display.do	30000	220	122	509	6	6915	0.00%	18.3/sec	88.8
/user/reviewlike/create.do	30000	300	214	627	9	4797	0.00%	18.3/sec	88.8
TOTAL	210000	262	157	609	2	6915	0.00%	127.9/sec	894.9



Unlike a Review



Aggregate Report

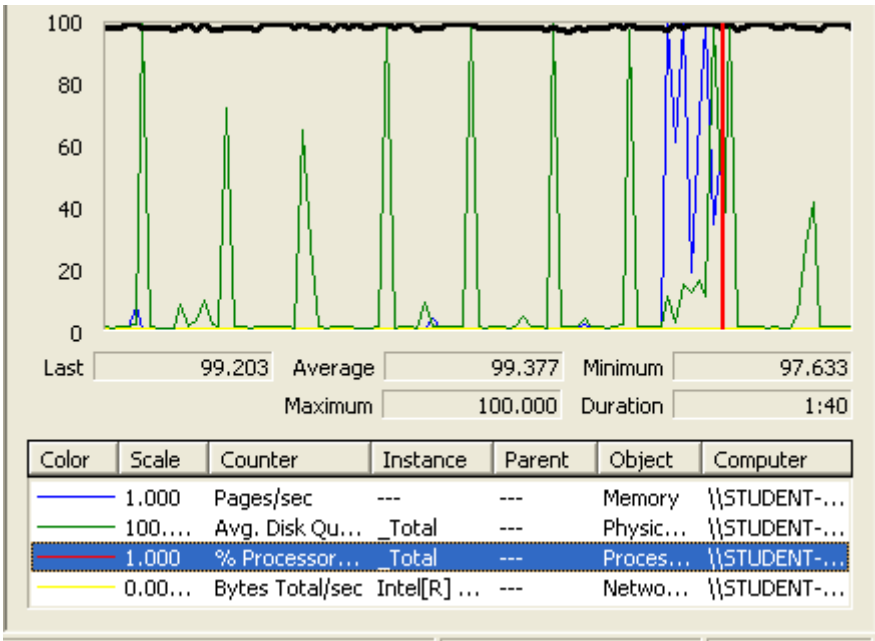
Name: Aggregate Report

Comments:

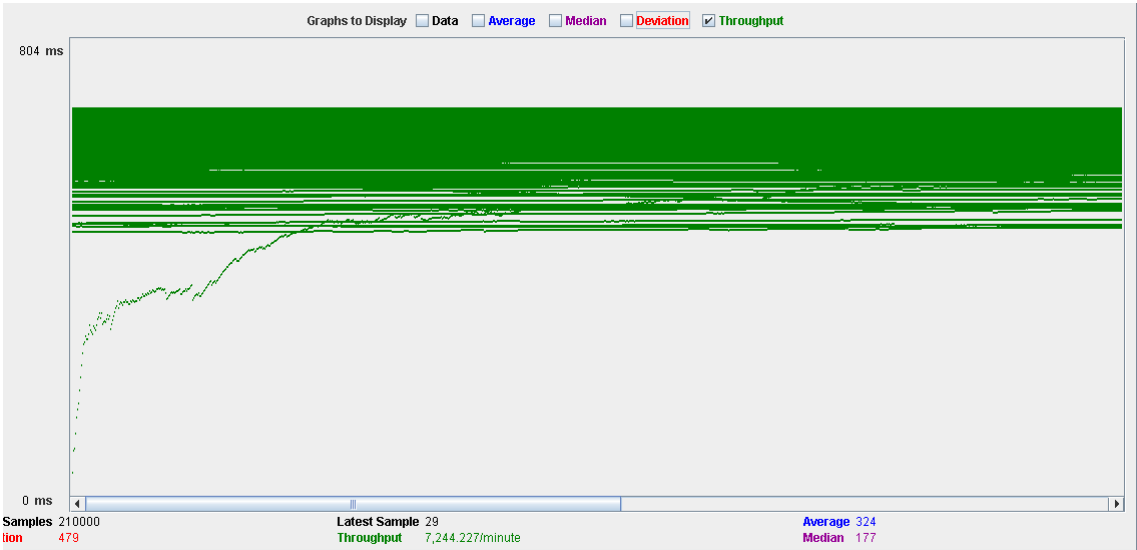
Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	526	308	1206	14	12480	0.00%	29.8/sec	313.3
/security/login.do	30000	18	14	34	0	631	0.00%	14.9/sec	54.6
/j_spring_security...	30000	1036	728	2237	13	14308	0.00%	14.9/sec	158.1
/review/browse.do	30000	481	257	1184	4	12417	0.00%	14.9/sec	68.5
/review/display.do	30000	477	246	1190	0	11950	0.00%	14.9/sec	71.9
/user/review/like/de...	30000	508	285	1217	10	10137	0.00%	14.9/sec	71.9
TOTAL	210000	510	261	1293	0	14308	0.00%	104.1/sec	736.6



Dislike a Review



Aggregate Report

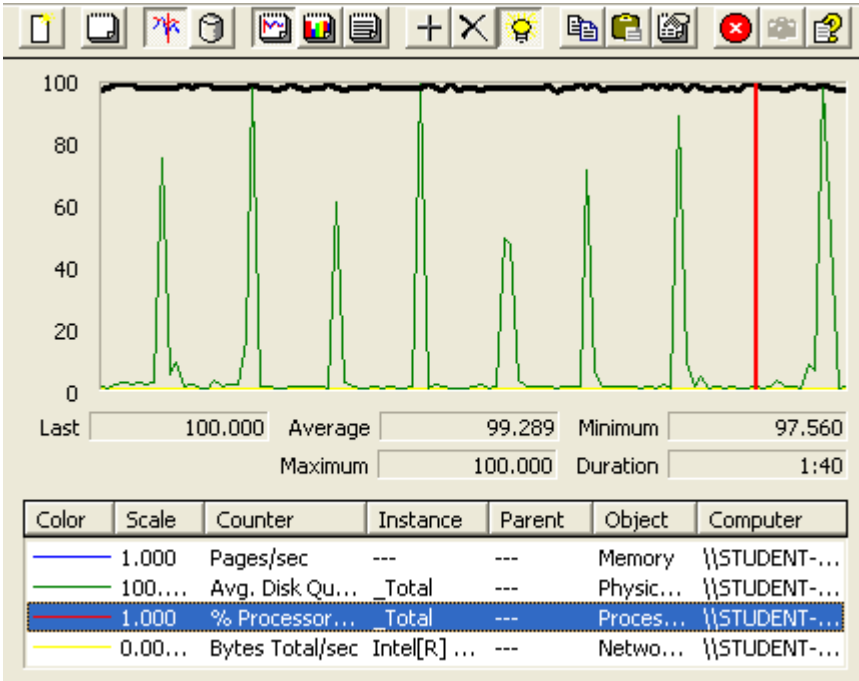
Name: Aggregate Report

Comments:

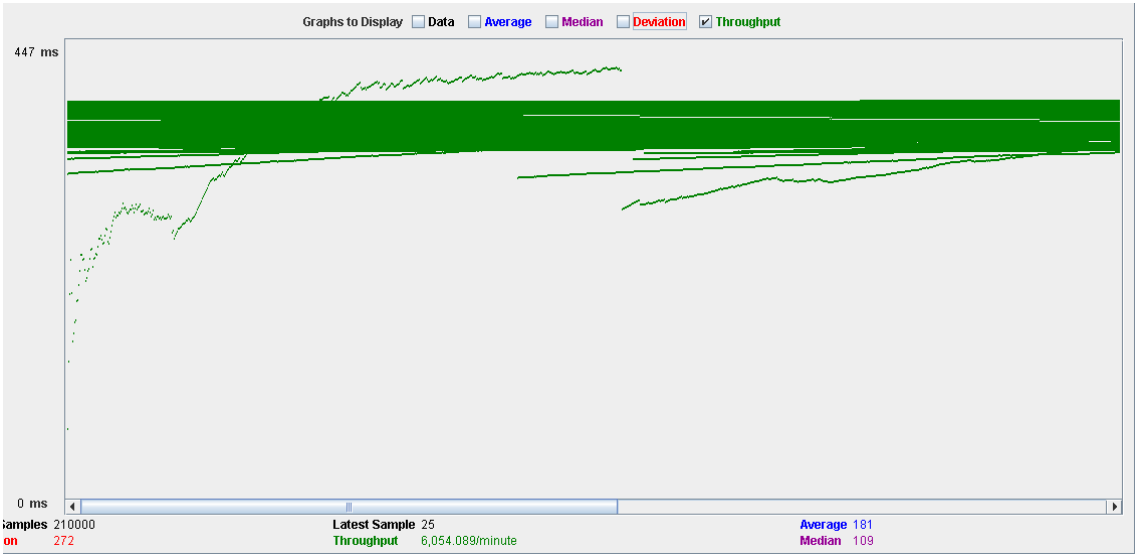
Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	339	219	714	12	8917	0.00%	34.6/sec	354.3
/security/login.do	30000	20	17	37	3	662	0.00%	17.3/sec	63.3
/j_spring_security...	30000	633	434	1329	12	11766	0.00%	17.3/sec	178.6
/review/browse.do	30000	296	155	697	8	8289	0.00%	17.3/sec	79.5
/review/display.do	30000	282	141	667	6	9353	0.00%	17.3/sec	83.9
/user/review/dislike...	30000	360	237	762	12	9892	0.00%	17.3/sec	83.9
TOTAL	210000	324	177	758	3	11766	0.00%	120.7/sec	841.0



Un-dislike a review



Aggregate Report

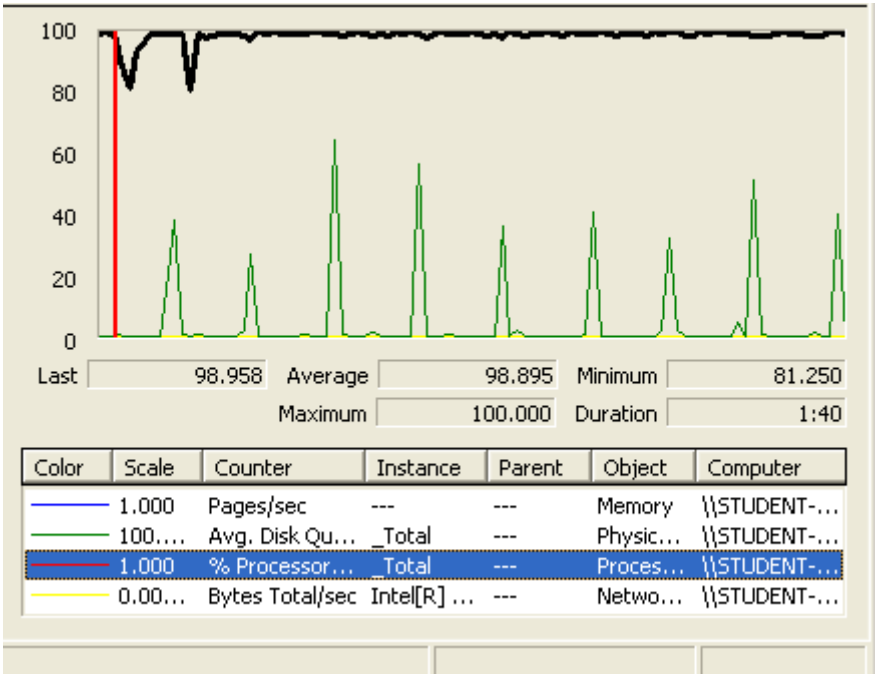
Name: Aggregate Report

Comments:

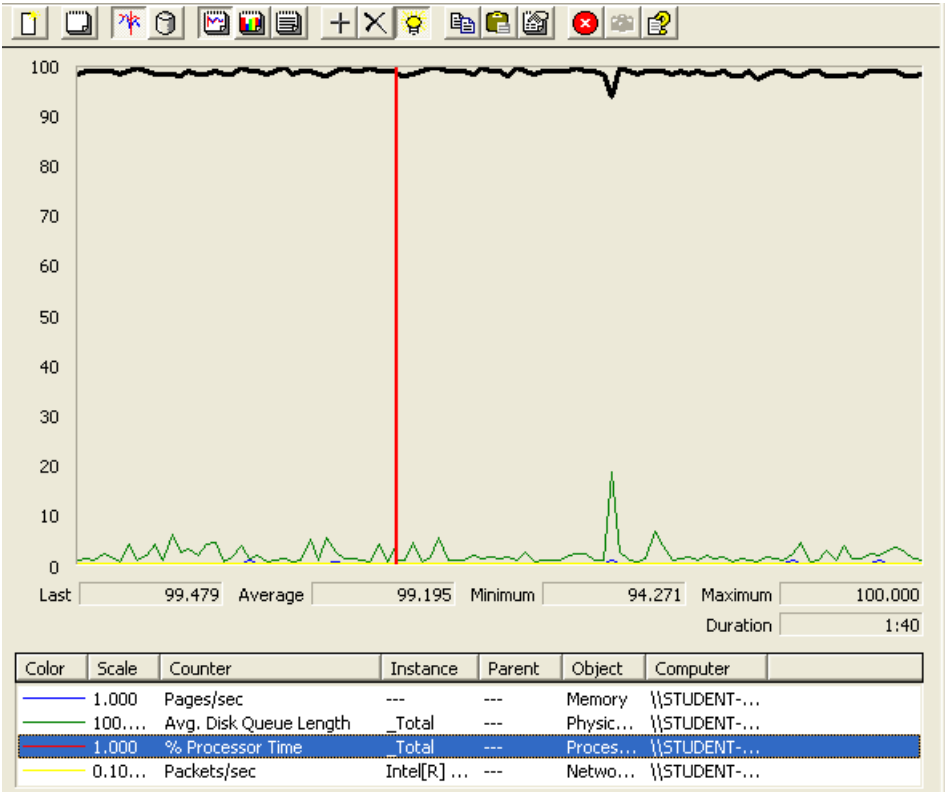
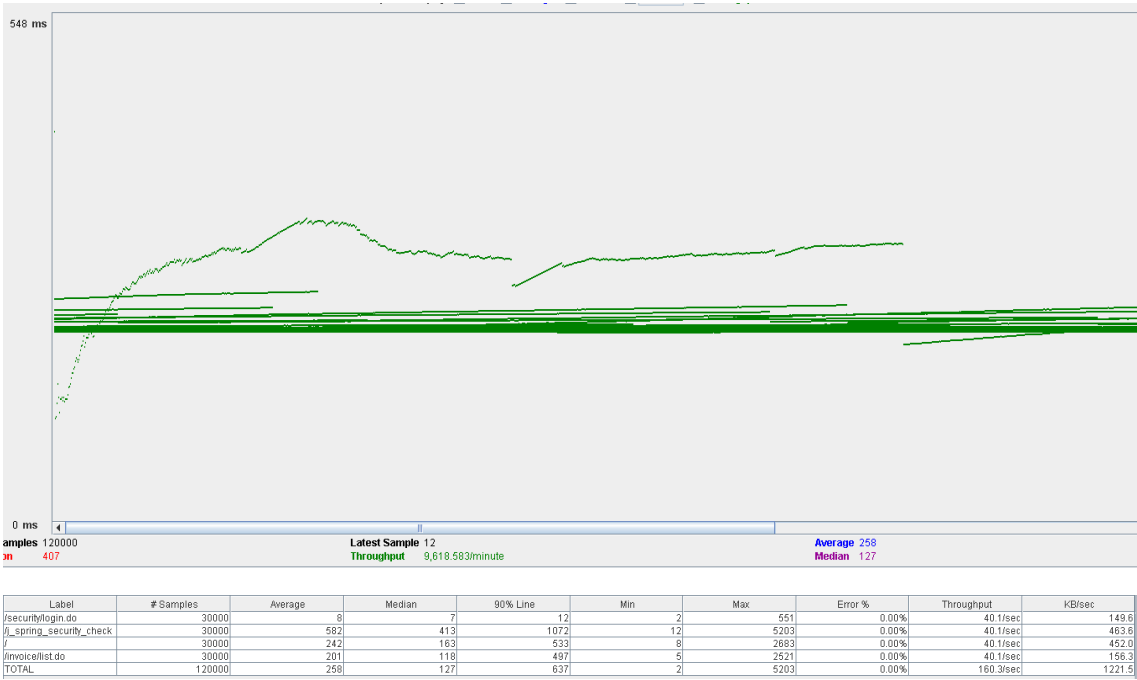
Write results to file / Read from file

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

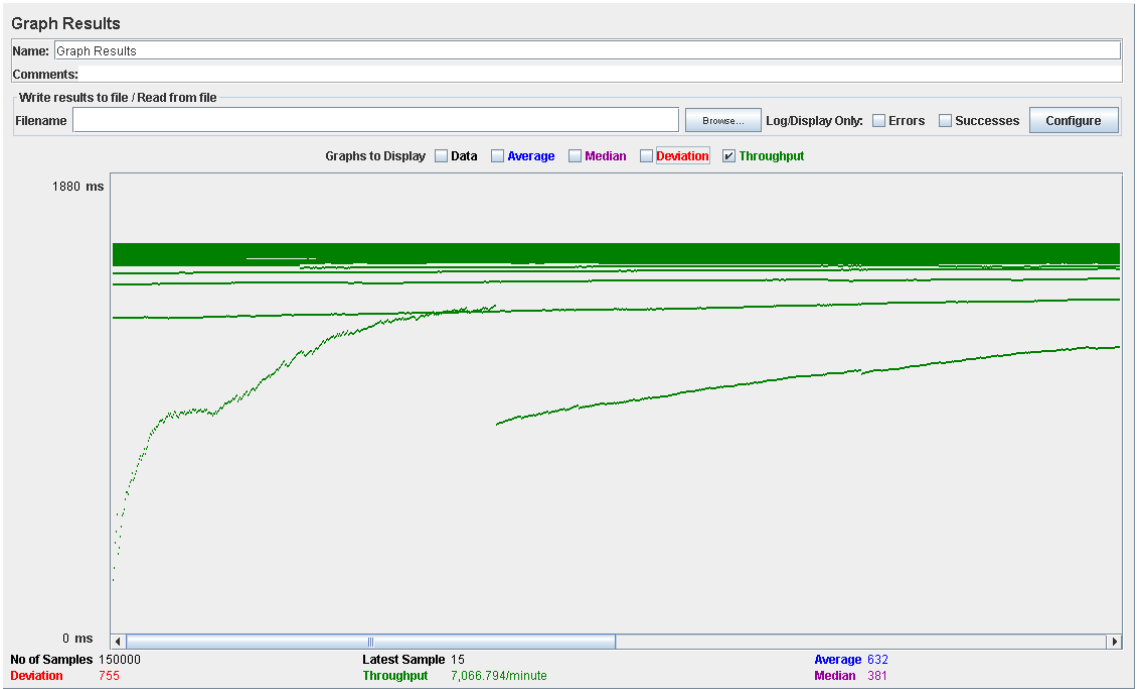
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	190	138	369	12	3299	0.00%	28.9/sec	305.4
/security/login.do	30000	14	12	24	3	420	0.00%	14.4/sec	52.9
/j_spring_security...	30000	403	262	730	10	7095	0.00%	14.4/sec	154.0
/review/browse.do	30000	152	91	339	8	3073	0.00%	14.4/sec	66.4
/review/display.do	30000	146	82	337	8	3987	0.00%	14.5/sec	69.7
/user/review/dislike...	30000	169	110	366	10	3566	0.00%	14.5/sec	69.8
TOTAL	210000	181	109	397	3	7095	0.00%	100.9/sec	716.4



List invoices



List orders



Aggregate Report

Name: Aggregate Report

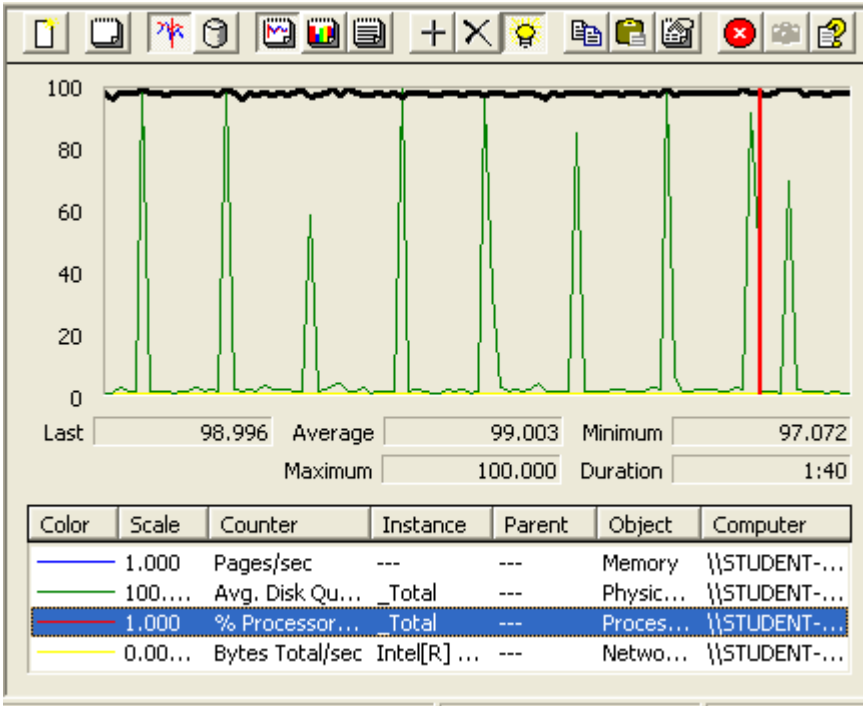
Comments:

Write results to file / Read from file

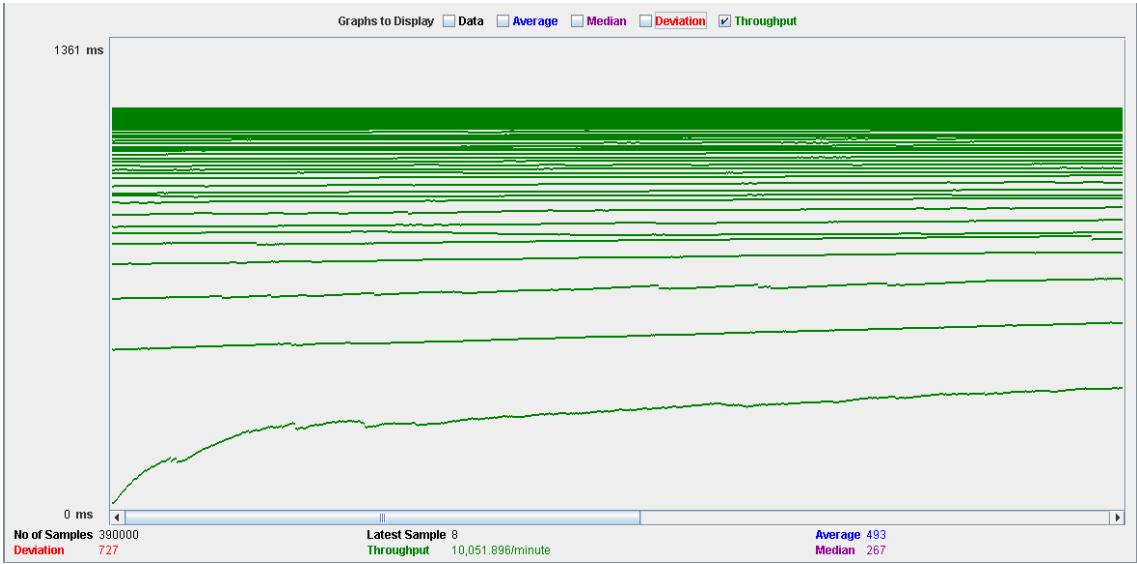
Filename: Browse...

Log/Display Only: ☐ Errors ☐ Successes

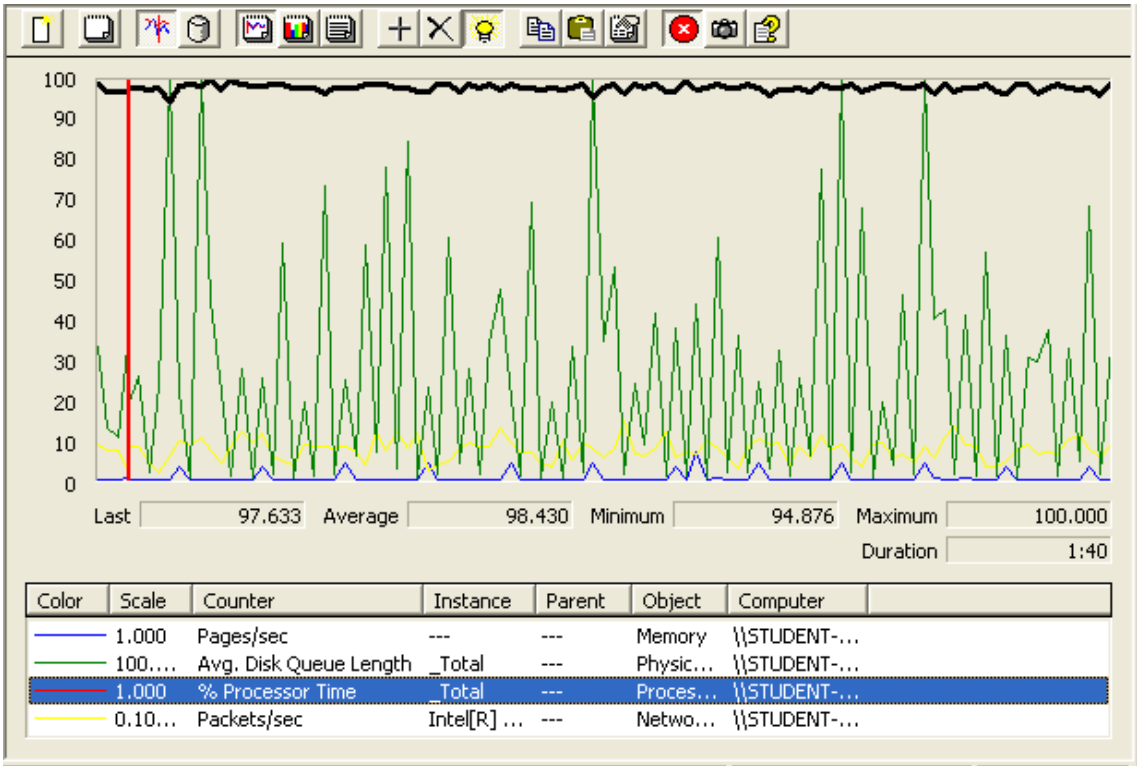
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
/	60000	662	455	1496	13	7591	0.00%	47.2/sec	536.6
/security/login.do	30000	15	13	24	3	2229	0.00%	23.6/sec	86.4
/j_spring_security...	30000	1229	987	2454	15	8279	0.00%	23.6/sec	272.6
/mealOrder/brows...	30000	591	388	1388	8	8548	0.00%	23.6/sec	102.2
TOTAL	150000	632	381	1608	3	8548	0.00%	117.8/sec	996.1



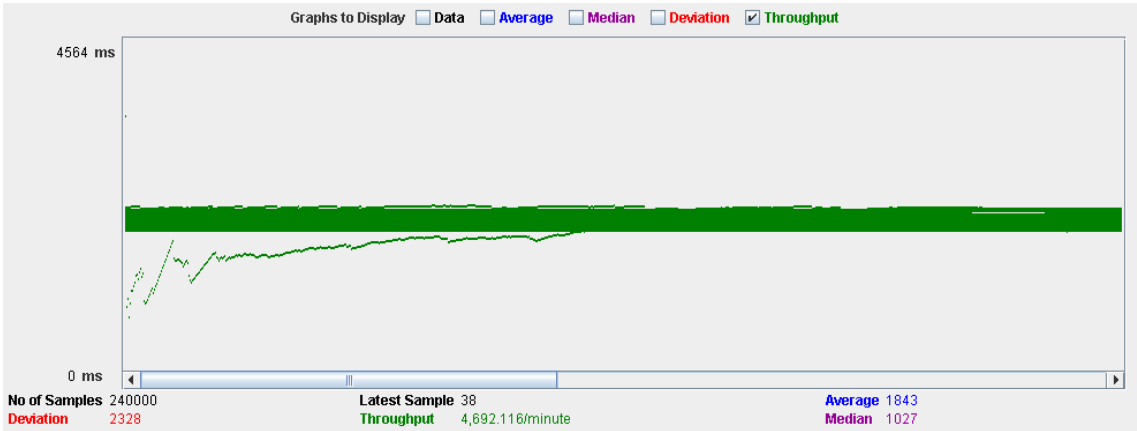
Make order



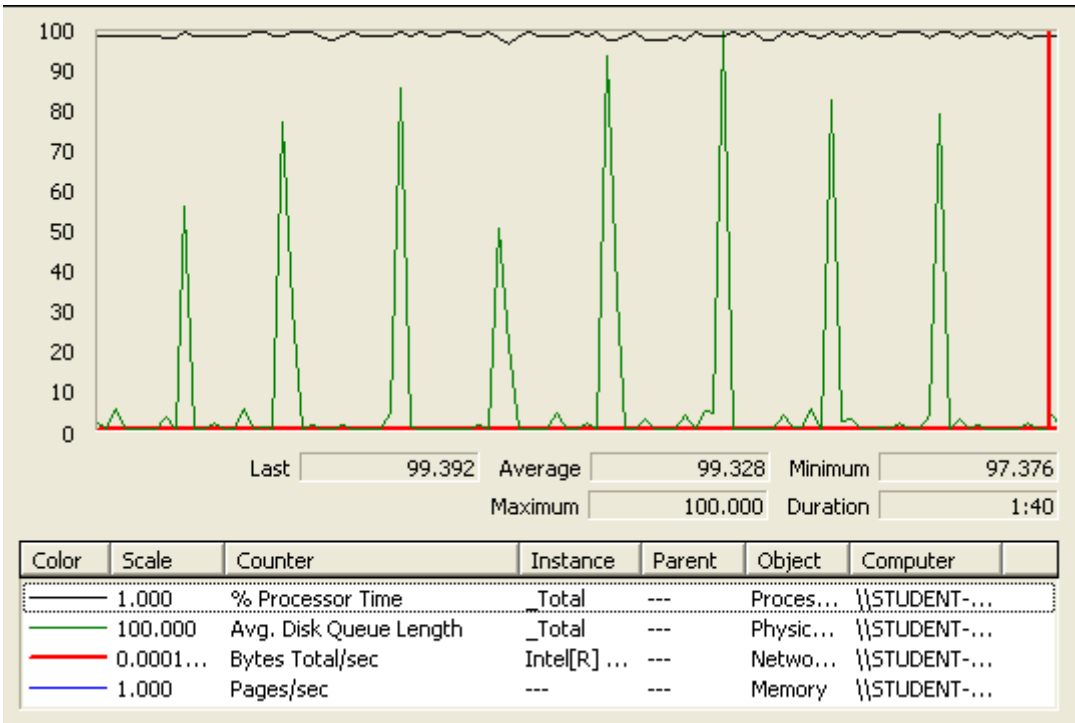
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/welcome/index.do	30000	569	352	1252	9	19013	0.00%	12.9/sec	119.4
/security/login.do	30000	14	11	22	2	1306	0.00%	12.9/sec	47.3
/j_spring_security...	30000	1030	740	2115	15	20029	0.00%	12.9/sec	131.9
/	30000	532	326	1181	12	14764	0.00%	12.9/sec	128.3
/restaurant/browse...	30000	456	236	1110	5	18381	0.00%	12.9/sec	81.8
/restaurant/display...	30000	532	324	1184	9	17801	0.00%	12.9/sec	86.4
/usermeal/Orderm...	60000	468	257	1101	8	18133	0.00%	25.9/sec	129.8
/userquantity/add.do	30000	434	218	1093	4	19004	0.00%	13.0/sec	56.1
/userquantity/edit.do	30000	516	305	1171	13	15810	0.00%	13.0/sec	56.8
/usermeal/Orderle...	60000	468	261	1126	3	17328	0.00%	26.0/sec	133.8
/invoice/display.do	30000	459	246	1127	4	19295	0.00%	13.0/sec	51.3
TOTAL	390000	493	267	1196	2	20029	0.00%	167.5/sec	1018.4



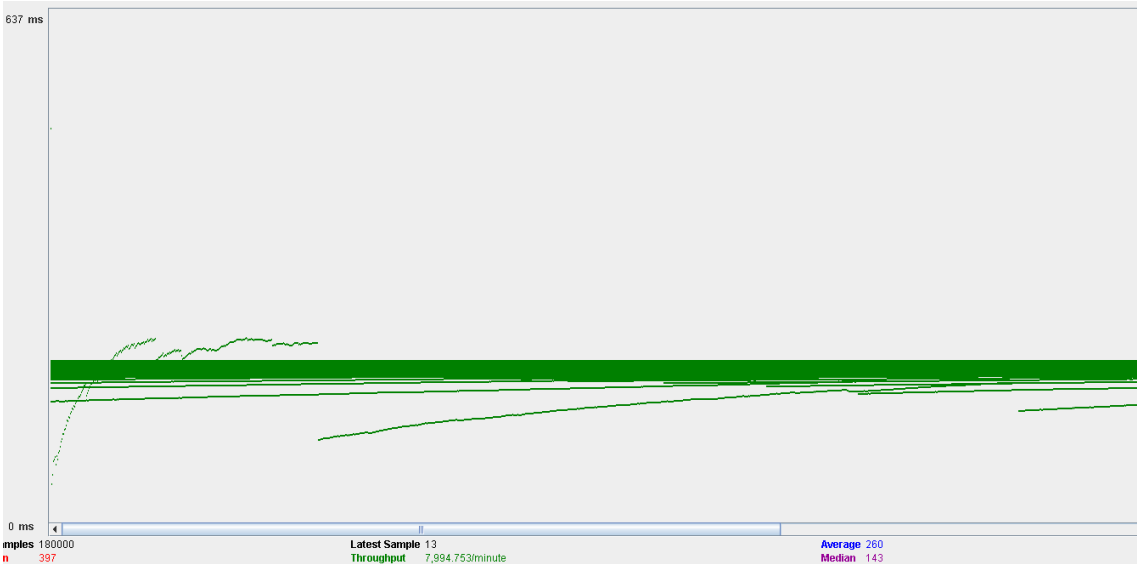
Delete order



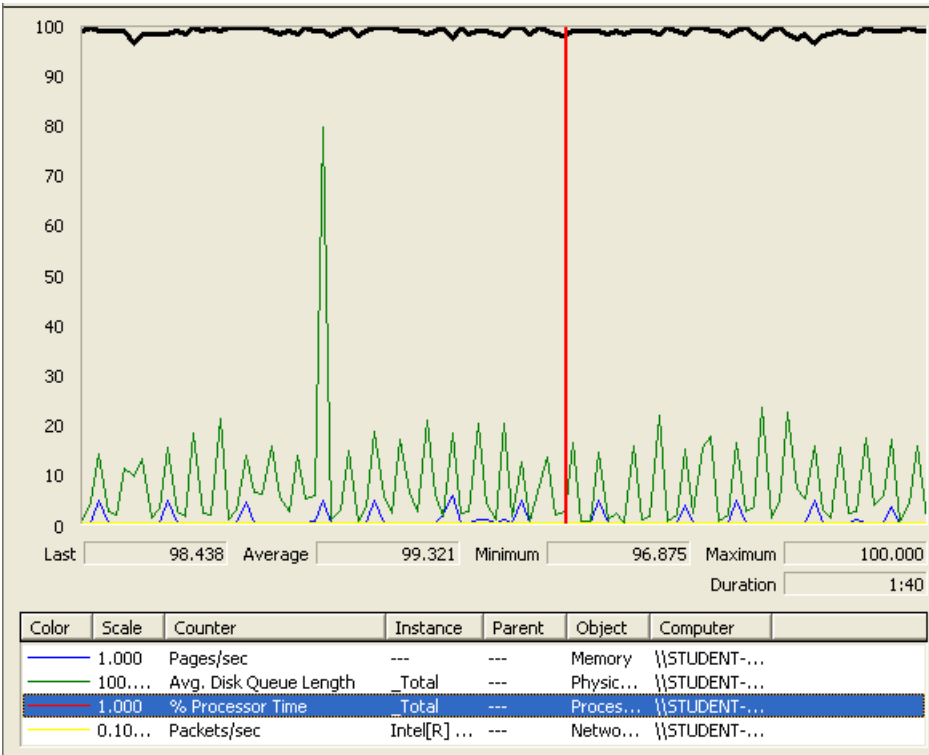
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	29	25	45	3	1244	0.00%	9.8/sec	36.5
/j_spring_secur...	30000	3754	2987	7777	38	27003	0.00%	9.8/sec	91.7
/	30000	1834	1121	4484	21	20651	0.00%	9.8/sec	88.5
/restaurant/bro...	30000	1715	998	4325	9	24997	0.00%	9.8/sec	61.8
/restaurant/disp...	60000	1962	1263	4681	20	33087	0.00%	19.6/sec	136.0
/user/mealOrde...	30000	1750	1021	4368	11	25836	0.00%	9.8/sec	53.3
/user/mealOrde...	30000	1741	1033	4399	7	36041	0.00%	9.8/sec	100.6
TOTAL	240000	1843	1027	4808	3	36041	0.00%	78.2/sec	568.3



Edit user profile



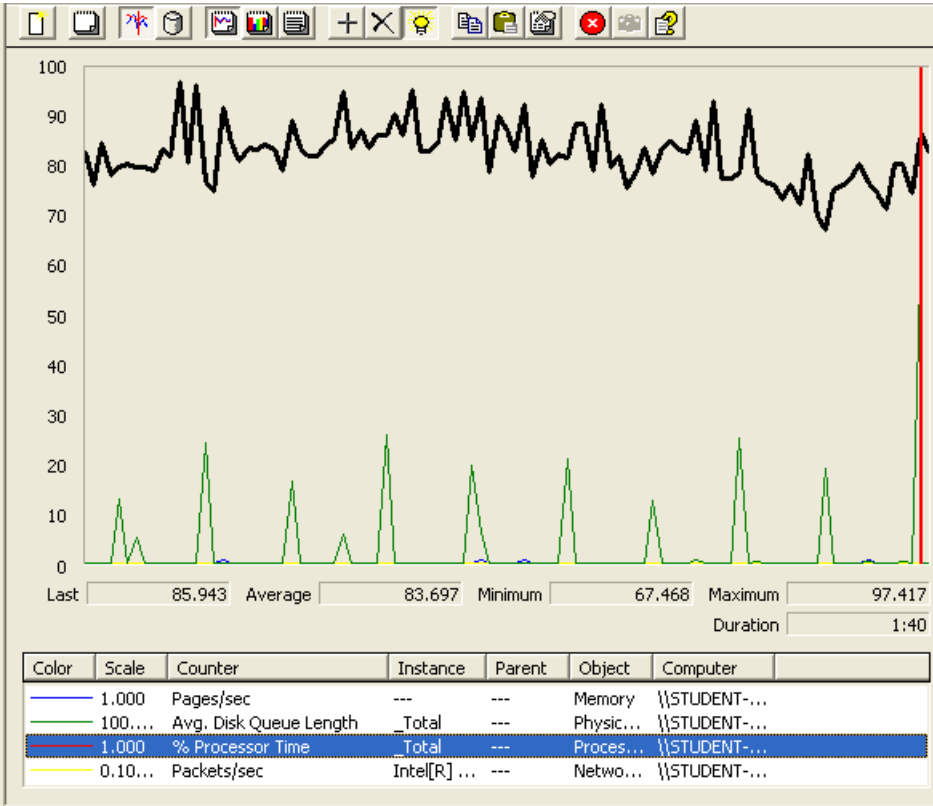
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	8	7	12	2	711	0.00%	22.3/sec	83.1
/spring_security_check	30000	495	338	912	11	5194	0.00%	22.3/sec	262.3
/	30000	194	122	436	9	2665	0.00%	22.3/sec	256.6
/user/edit.do	60000	336	214	700	4	5499	0.00%	44.5/sec	399.5
/welcome/index.do	30000	193	120	434	9	2410	0.00%	22.2/sec	237.3
TOTAL	180000	260	143	598	2	5499	0.00%	133.2/sec	1236.2



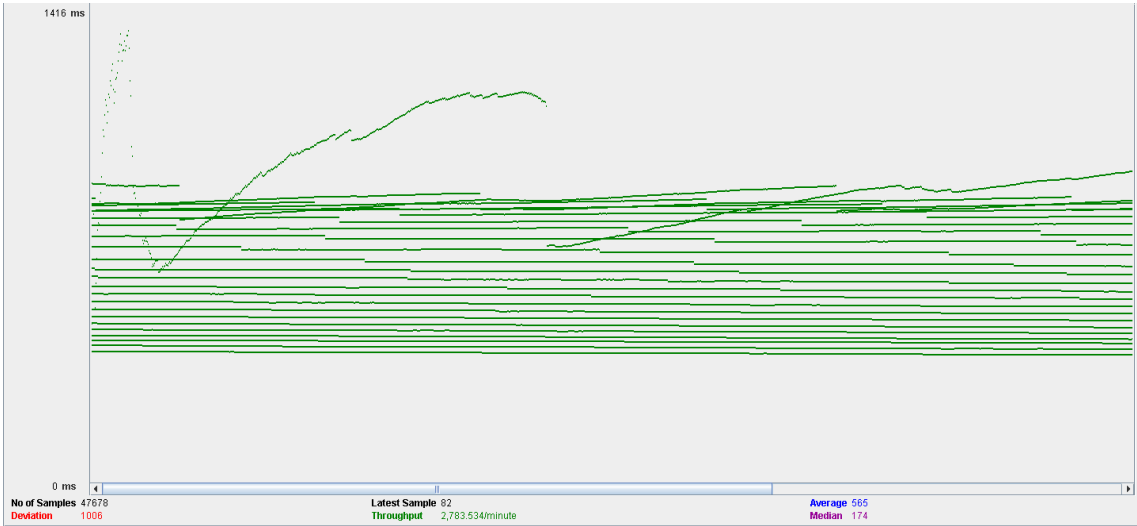
Report a comment as user



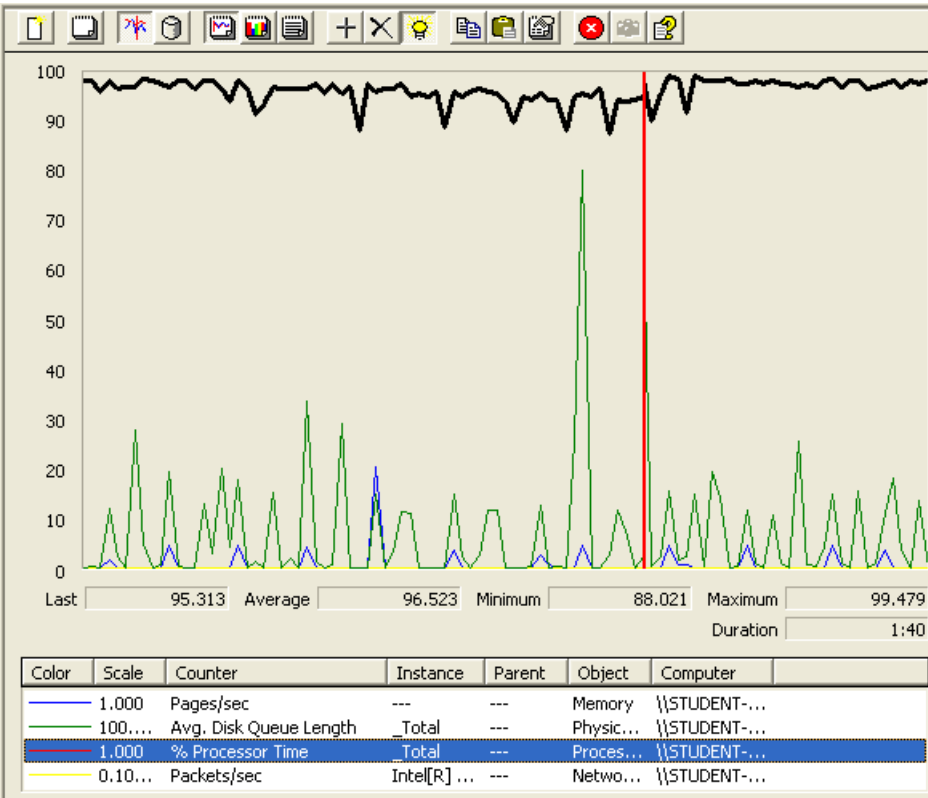
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/securitylogin.do	7000	42	15	95	2	590	0.00%	5.5/sec	20.4
/spring_security_check	7000	2520	1319	6001	11	45236	0.00%	5.5/sec	51.2
/	7000	1240	519	2919	9	30322	0.00%	5.5/sec	50.1
/restaurantbrowse.do	7000	1097	339	2797	5	29055	0.00%	5.5/sec	34.6
/restaurantdisplay.do	14000	1363	653	3147	12	36847	0.00%	10.9/sec	1160.8
/reportedit.do	14000	1891	898	4601	3	43071	0.00%	10.9/sec	607.0
TOTAL	56000	1423	538	3619	2	45236	0.00%	43.7/sec	1923.3



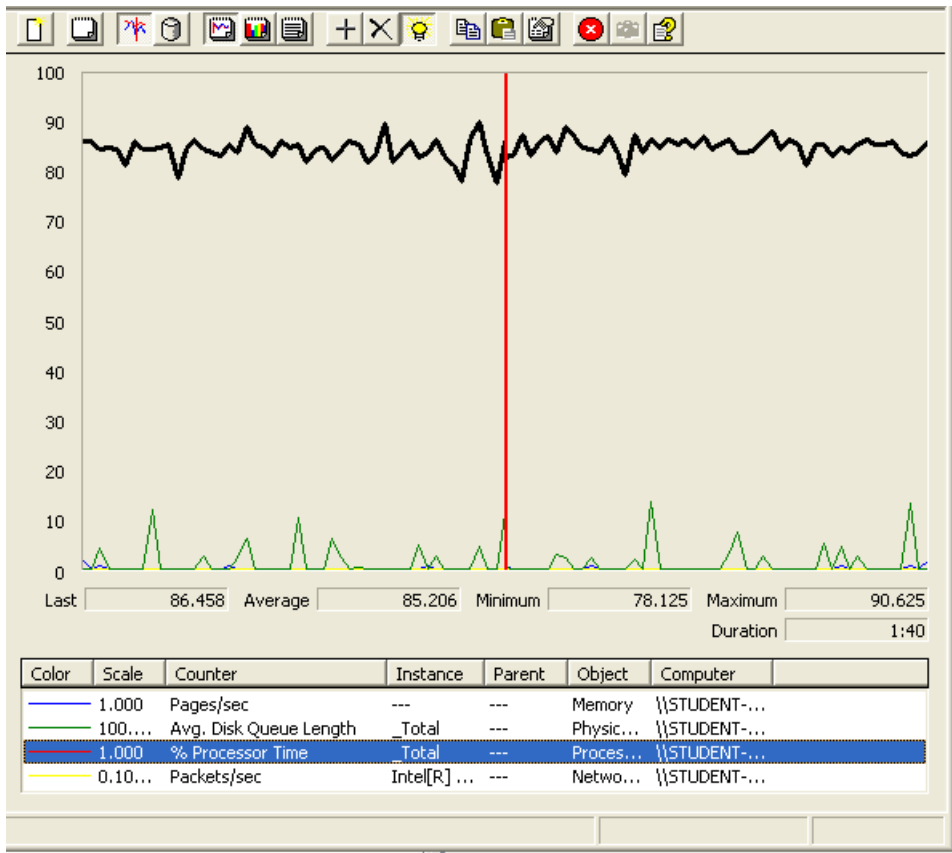
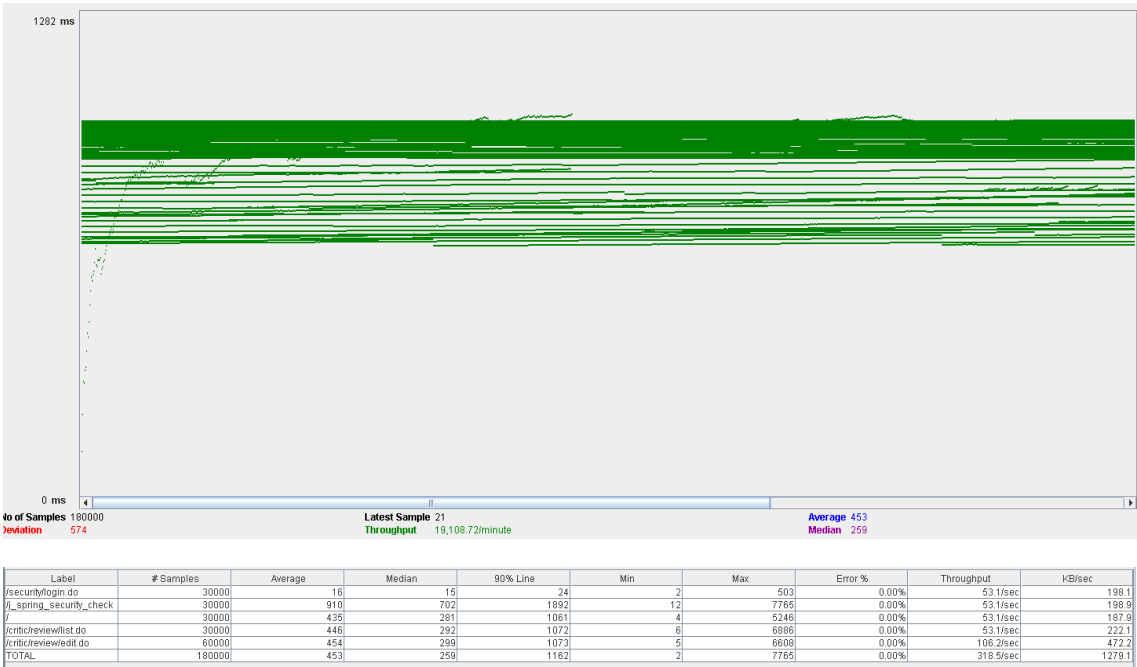
Create Review



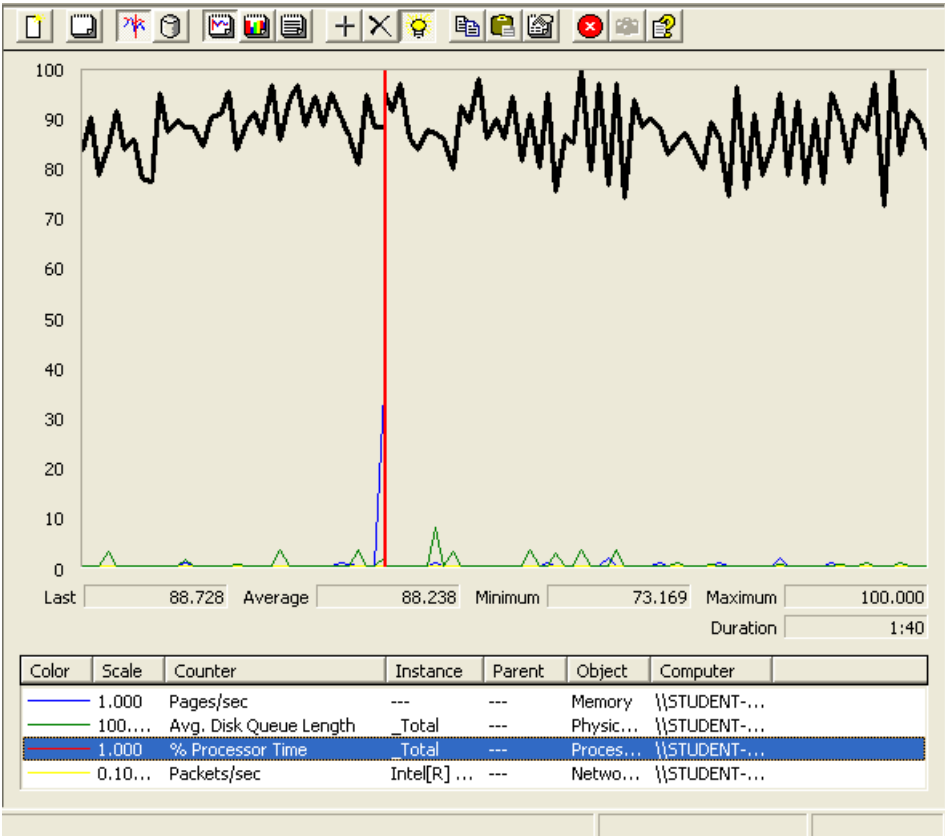
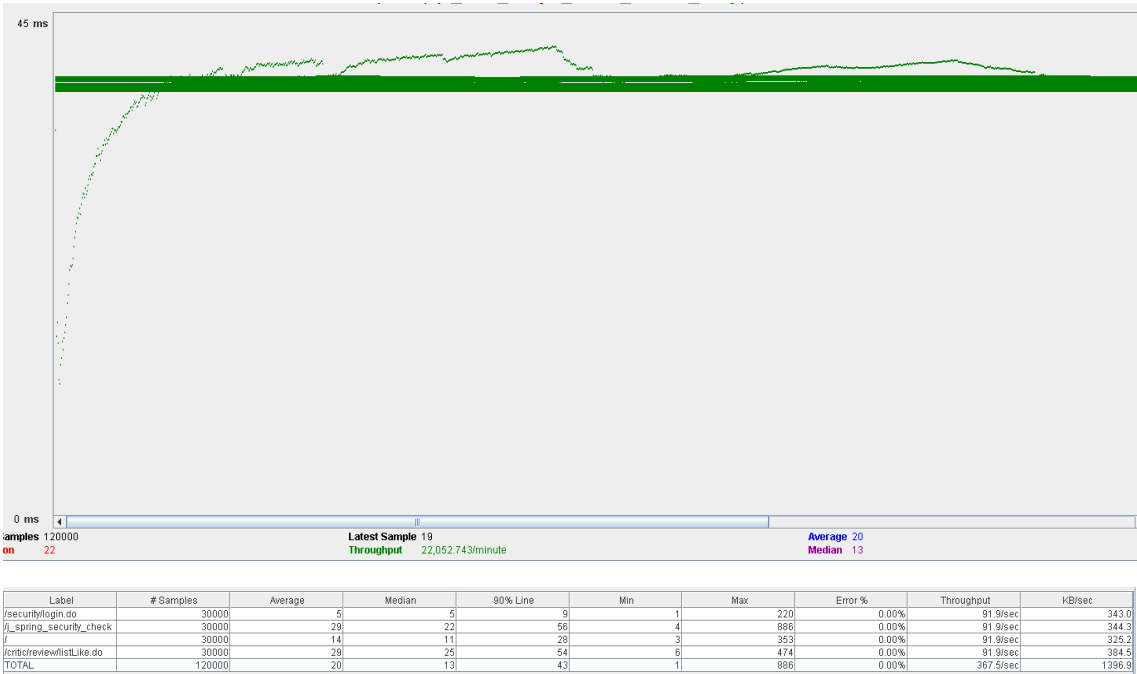
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/securitylogin.do	7000	37	16	89	2	599	0.00%	6.8/sec	25.2
/j_spring_security_check	7000	1032	367	3043	7	21206	0.00%	6.8/sec	25.3
/j	7000	458	109	1335	3	10488	0.00%	6.8/sec	23.9
/restaurant/browse.do	7000	479	152	1353	4	9532	0.00%	6.8/sec	42.5
/restaurant/display.do	7000	705	401	1713	7	11233	0.00%	6.8/sec	2556.6
/criticreview/create.do	7000	430	107	1227	3	10394	0.00%	6.7/sec	31.0
/criticreview/edit.do	7000	717	411	1758	13	15763	0.00%	6.7/sec	40.8
TOTAL	49000	551	180	1512	2	21206	0.00%	47.1/sec	2734.5



List and edit a review



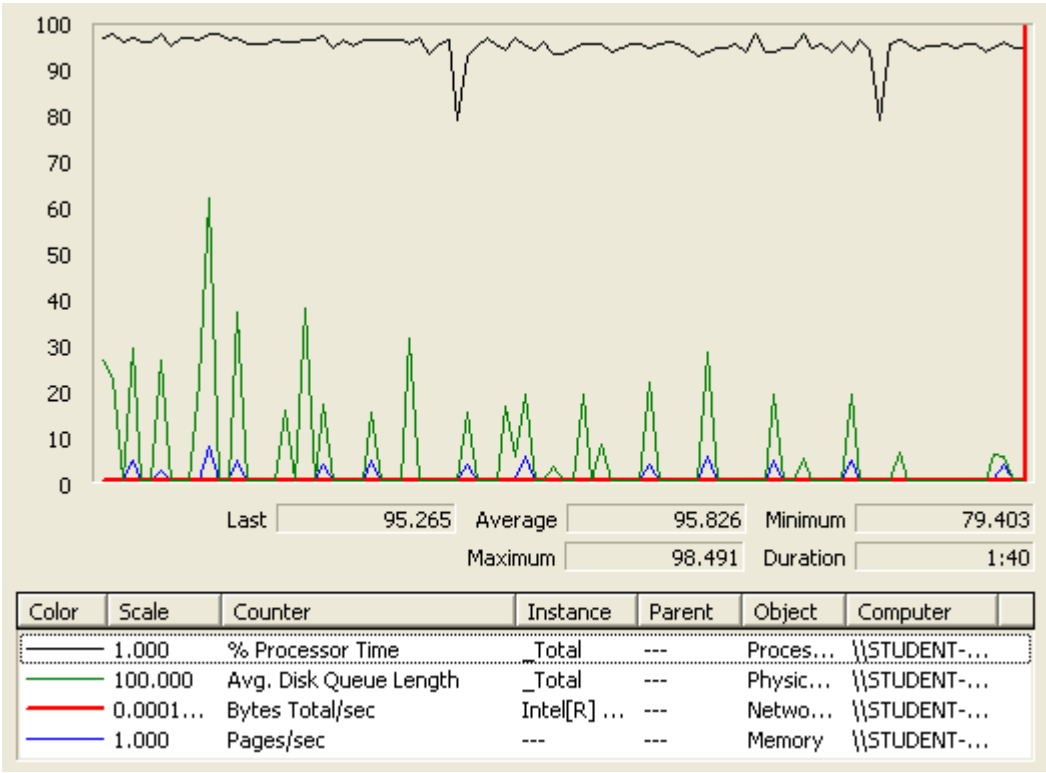
List reviews by likes



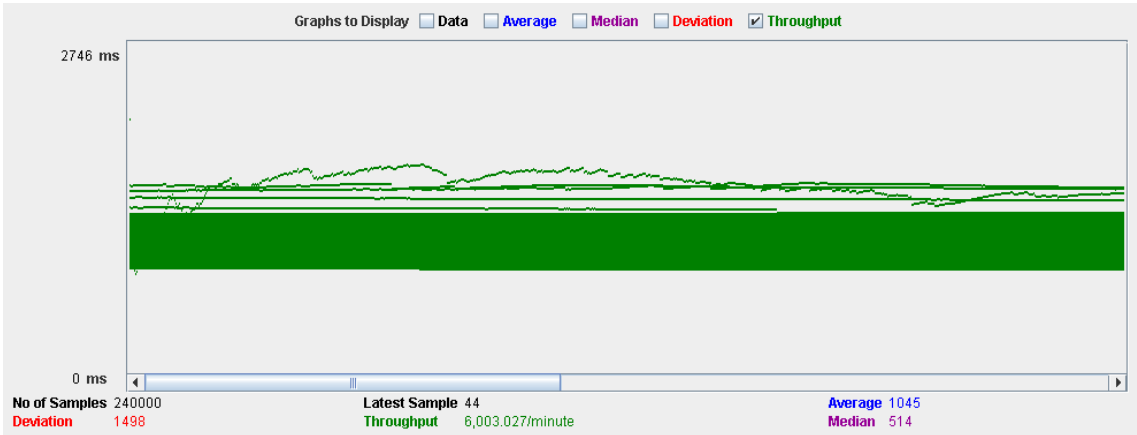
Create meal



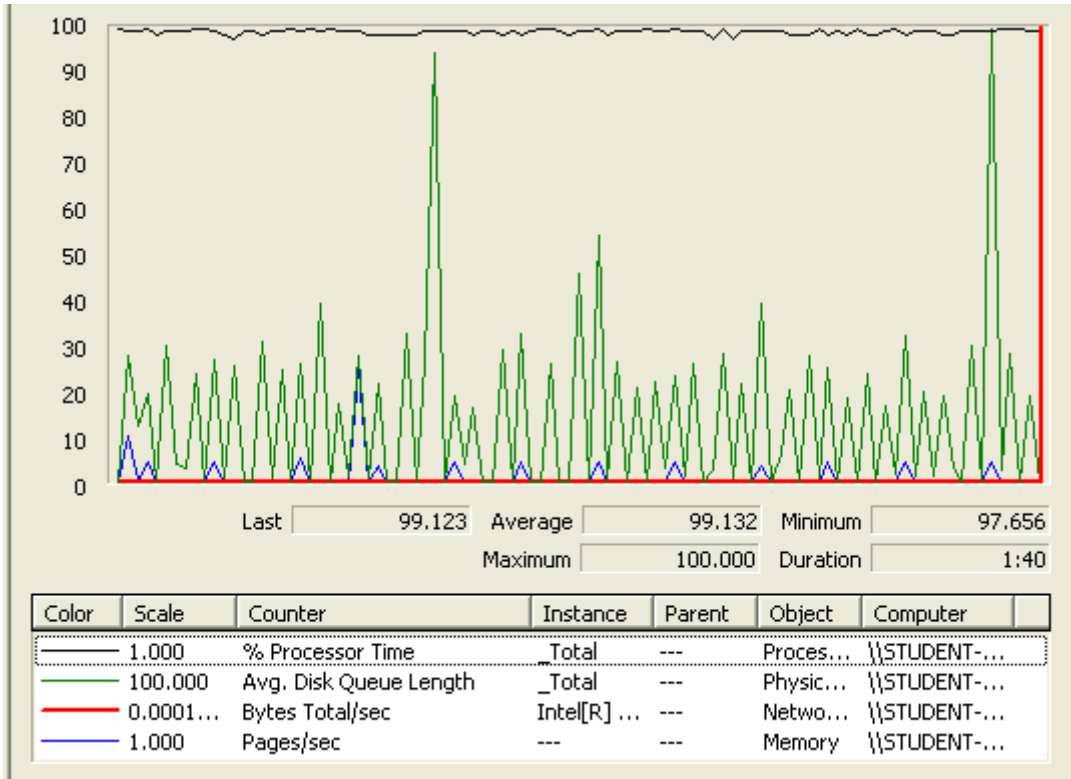
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	8000	4797	1026	9531	2	412781	0.00%	2.5/sec	15.0
/security/login.do	4000	95	28	251	2	1068	0.00%	1.3/sec	4.7
/spring_security_check	4000	8824	2511	18586	6	412775	0.00%	1.3/sec	6.0
/managerActor/restaura...	4000	4562	865	9725	4	336653	0.00%	1.3/sec	7.3
/restaurant/display.do	8000	7257	1682	19702	9	393550	0.00%	2.5/sec	29.5
/managerActor/mealfre...	4000	4250	969	7874	6	395379	0.00%	1.3/sec	7.4
/managerActor/mealfedi...	4000	11857	3519	29573	20	287801	0.00%	1.3/sec	15.0
TOTAL	36000	5965	1150	13223	2	412781	0.00%	11.4/sec	84.6



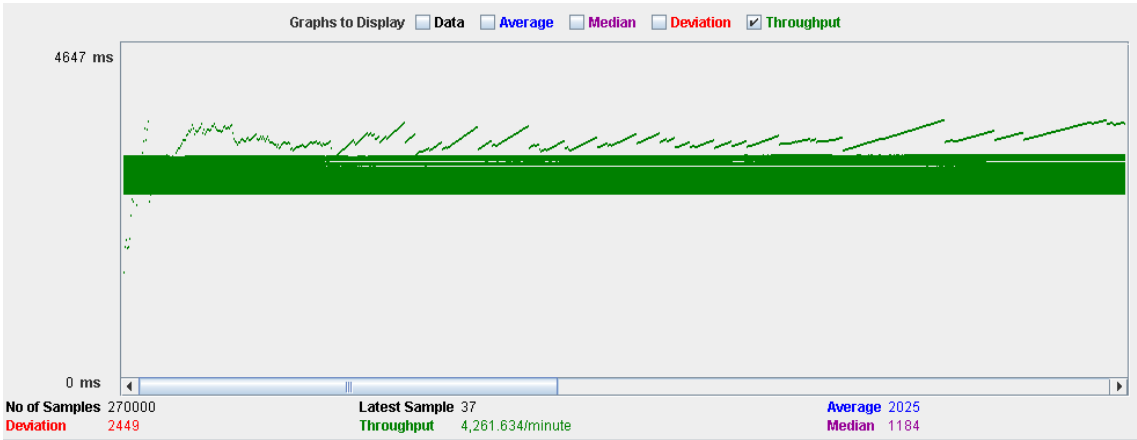
List and edit meal



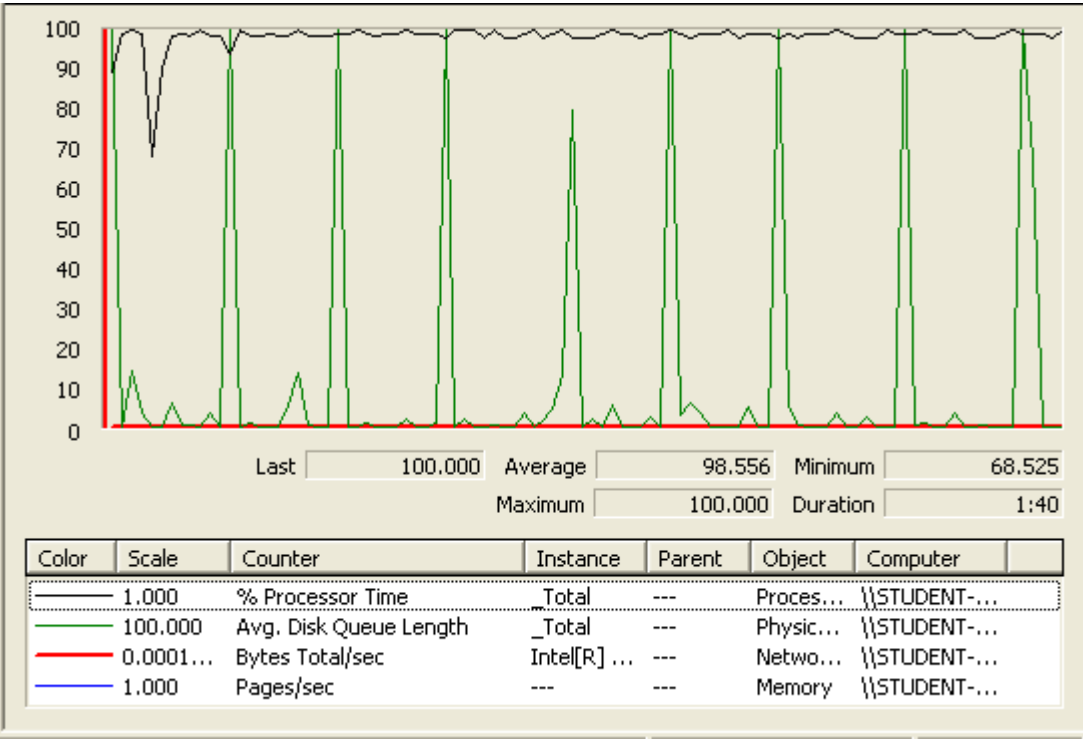
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	17	14	33	2	381	0.00%	12.5/sec	46.7
/j_spring_secur...	30000	1816	1129	4337	8	23883	0.00%	12.5/sec	58.6
/	30000	924	488	2342	4	16195	0.00%	12.5/sec	55.9
/managerActorfr...	30000	923	493	2348	6	20189	0.00%	12.5/sec	71.2
/restaurant/disp...	60000	925	481	2307	12	17396	0.00%	25.0/sec	225.4
/managerActorfr...	60000	1416	821	3446	10	21723	0.00%	25.0/sec	188.8
TOTAL	240000	1045	514	2749	2	23883	0.00%	100.1/sec	646.4



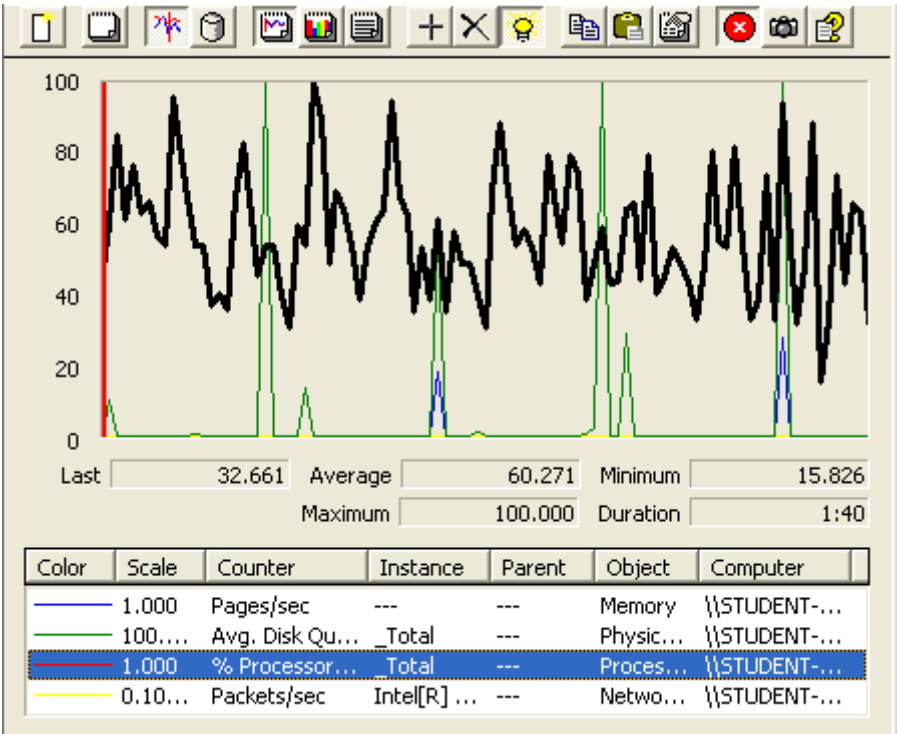
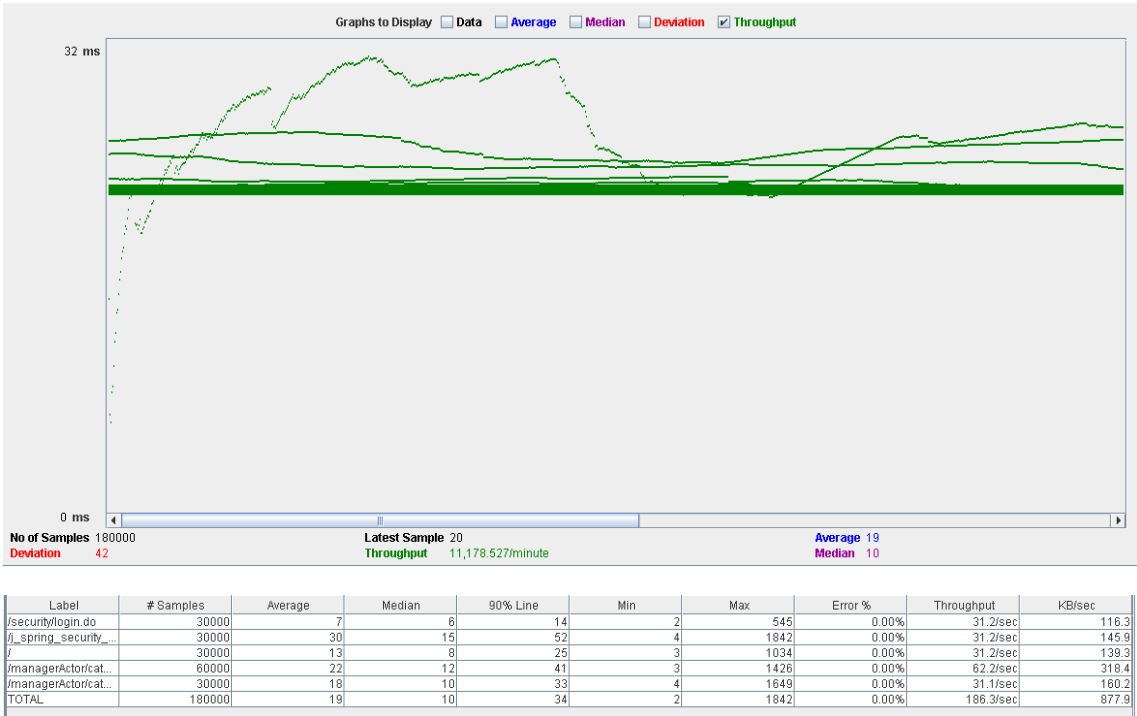
Disable and enable meal



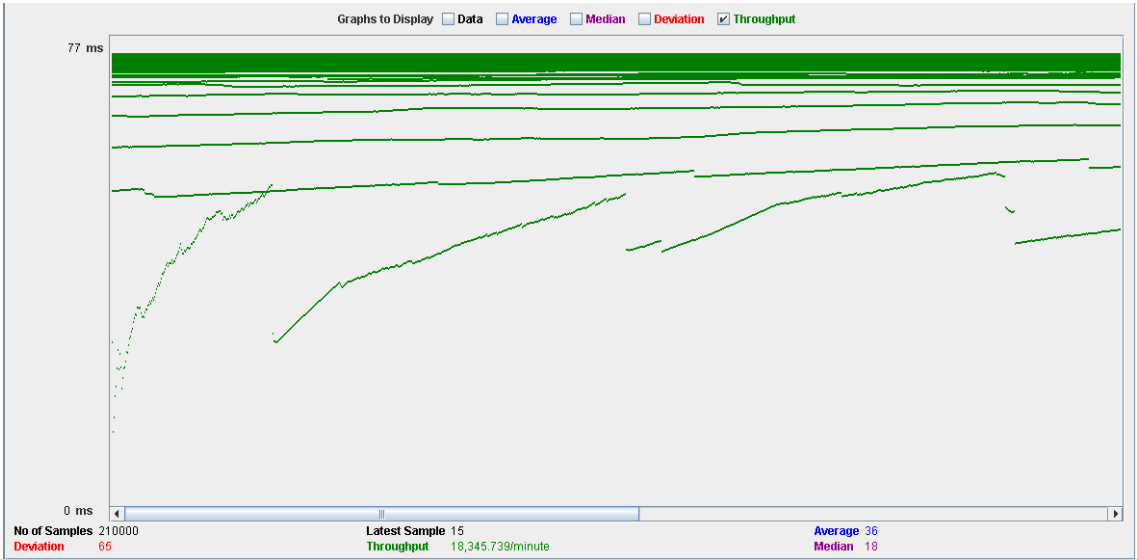
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	31	26	50	3	2430	0.00%	7.9/sec	29.5
/j_spring_secur...	30000	3514	2722	7531	23	31651	0.00%	7.9/sec	36.9
/	30000	1826	1123	4534	7	21685	0.00%	7.9/sec	35.3
/managerActor/r...	30000	1851	1135	4542	8	23172	0.00%	7.9/sec	45.0
/restaurant/disp...	90000	1845	1145	4501	15	27315	0.00%	23.7/sec	213.6
/managerActor/r...	60000	2734	1916	6376	16	31263	0.00%	15.8/sec	183.6
TOTAL	270000	2025	1184	5185	3	31651	0.00%	71.0/sec	543.7



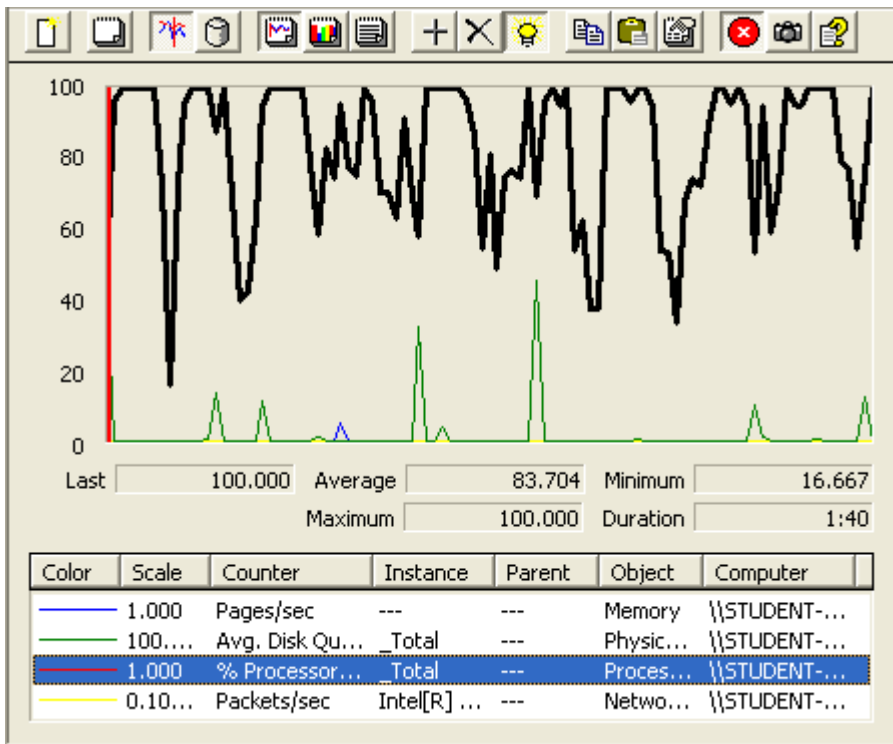
Create category



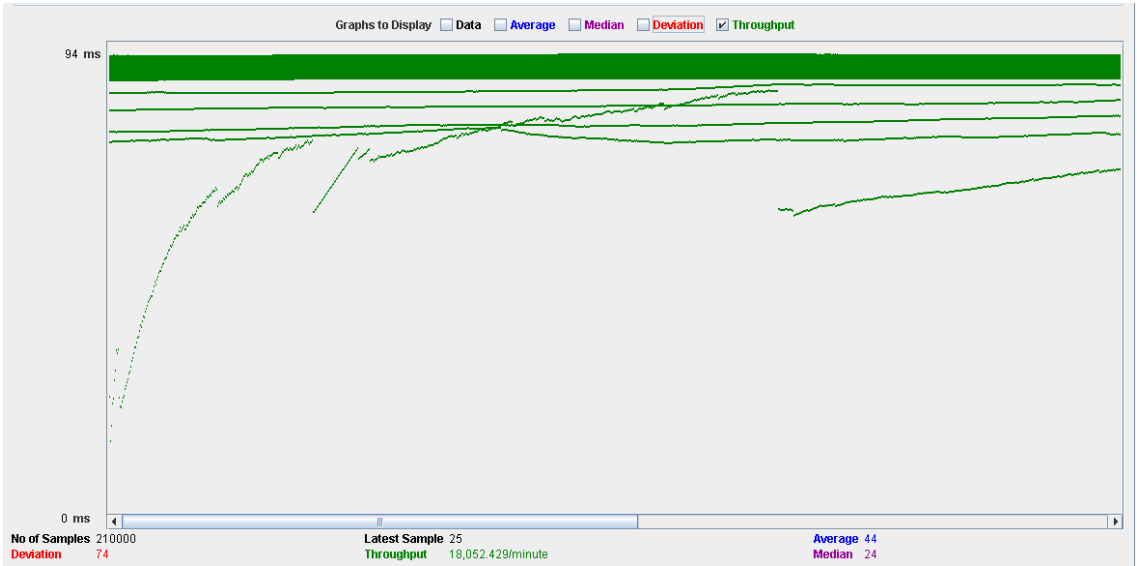
Delete category



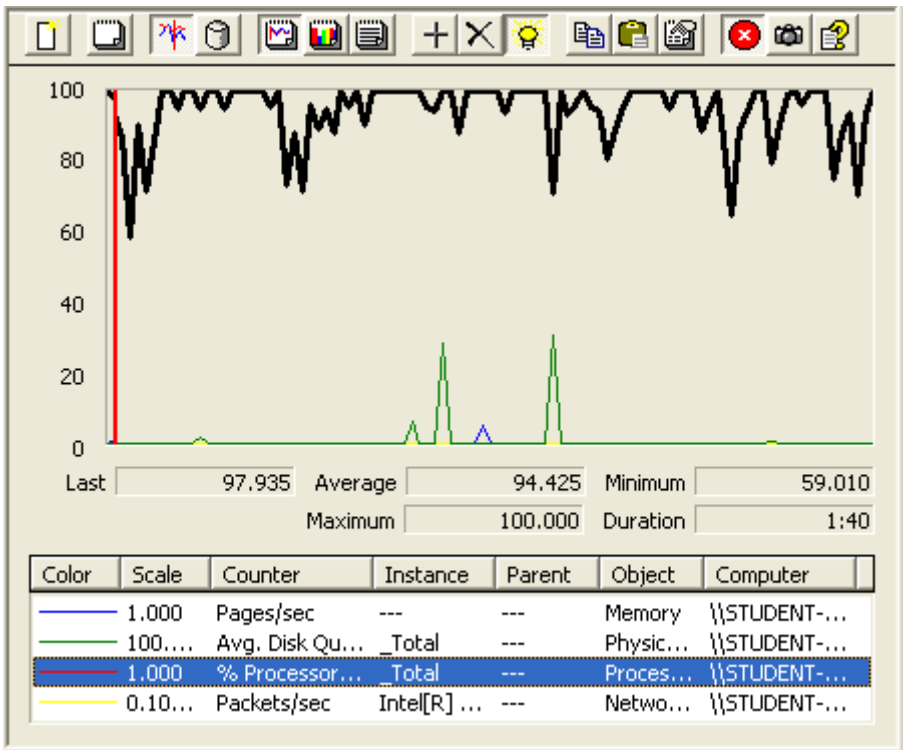
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	10	7	15	2	969	0.00%	43.8/sec	163.5
/j_spring_security...	30000	70	40	151	5	1932	0.00%	43.8/sec	205.1
/	30000	32	18	66	3	1494	0.00%	43.8/sec	195.8
/manager/actoricat...	60000	37	23	76	4	1743	0.00%	87.4/sec	438.9
/manager/actoricat...	30000	29	17	57	4	1783	0.00%	43.8/sec	552.2
/manager/actoricat...	30000	36	18	77	3	1668	0.00%	43.8/sec	549.6
TOTAL	210000	36	18	77	2	1932	0.00%	305.8/sec	2101.1



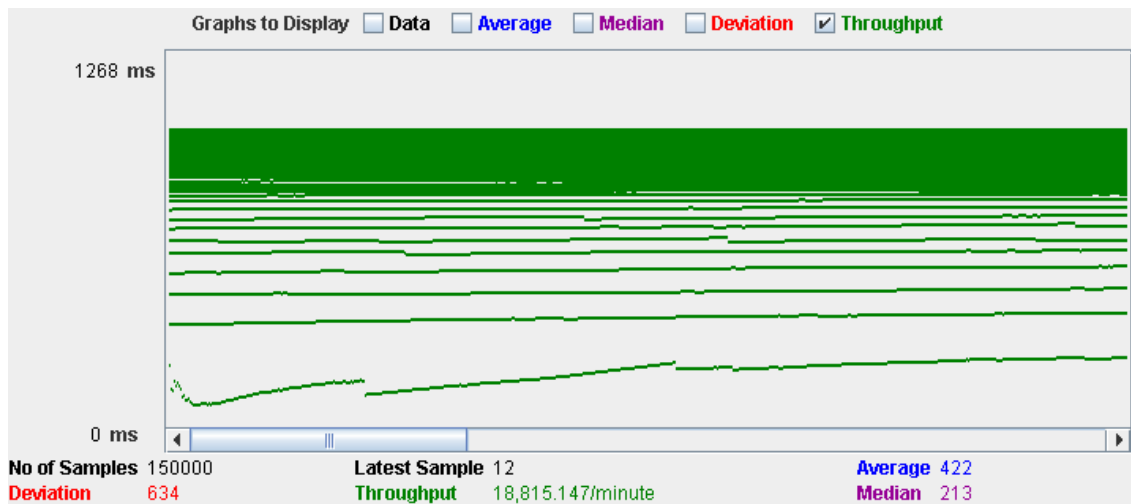
List and edit category



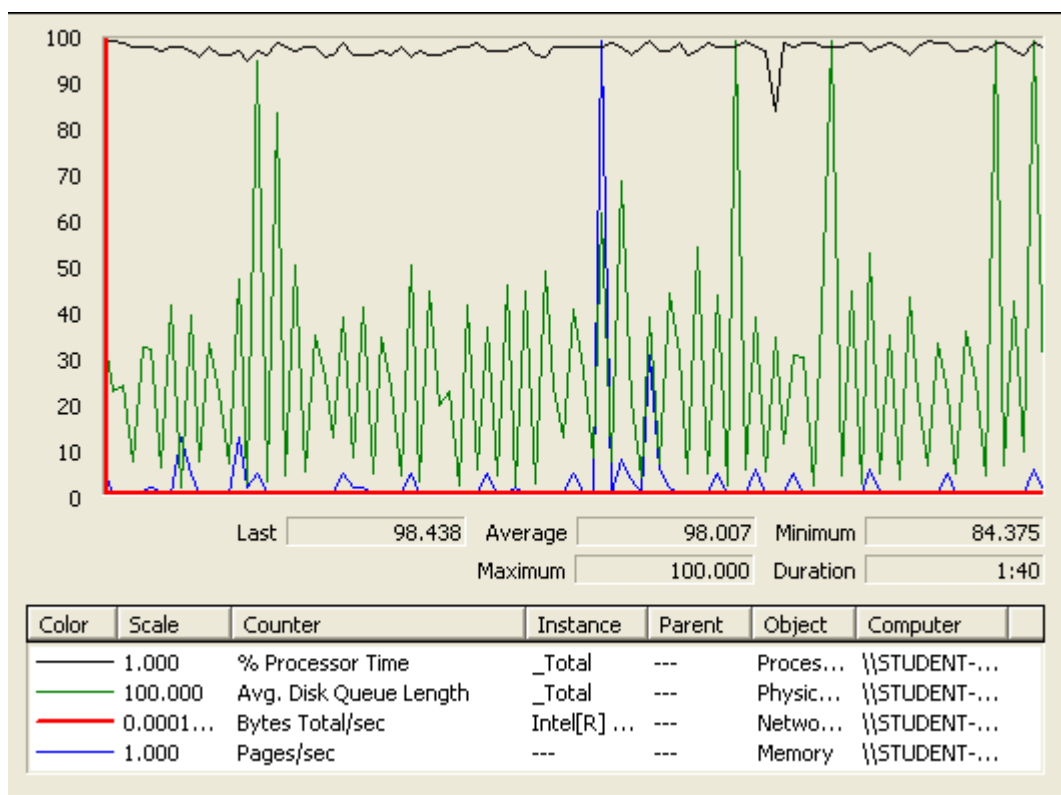
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	10	8	17	2	1275	0.00%	43.1/sec	160.9
/j_spring_security_c...	30000	82	50	172	4	2491	0.00%	43.1/sec	201.8
/	30000	40	22	83	3	2116	0.00%	43.1/sec	192.6
/managerActor/categ...	60000	43	27	84	4	1926	0.00%	86.0/sec	442.6
/managerActor/categ...	30000	37	21	73	4	2321	0.00%	43.1/sec	224.9
/managerActor/categ...	30000	54	36	106	6	2276	0.00%	43.1/sec	229.0
TOTAL	210000	44	24	93	2	2491	0.00%	300.9/sec	1449.4



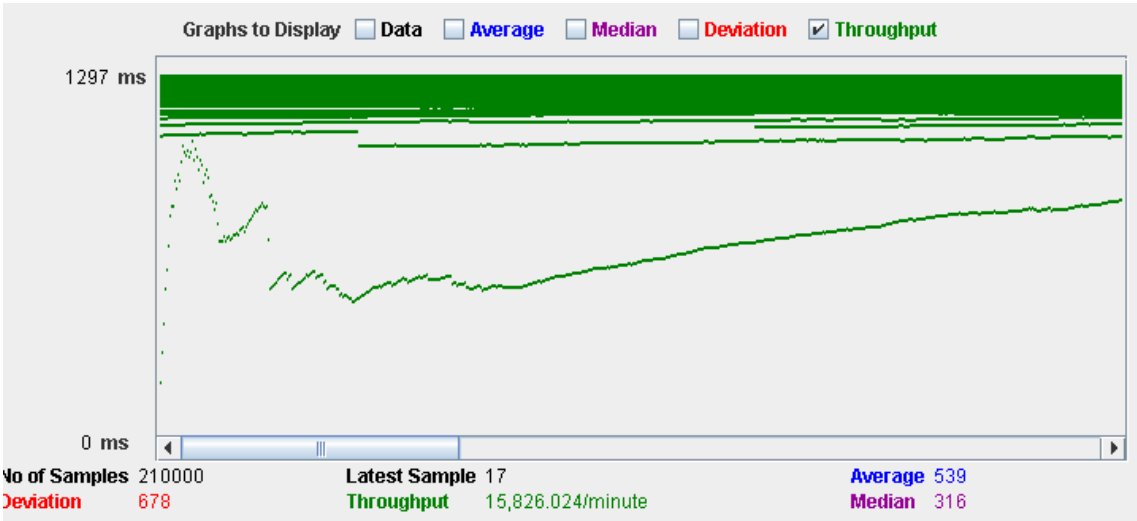
Create restaurant



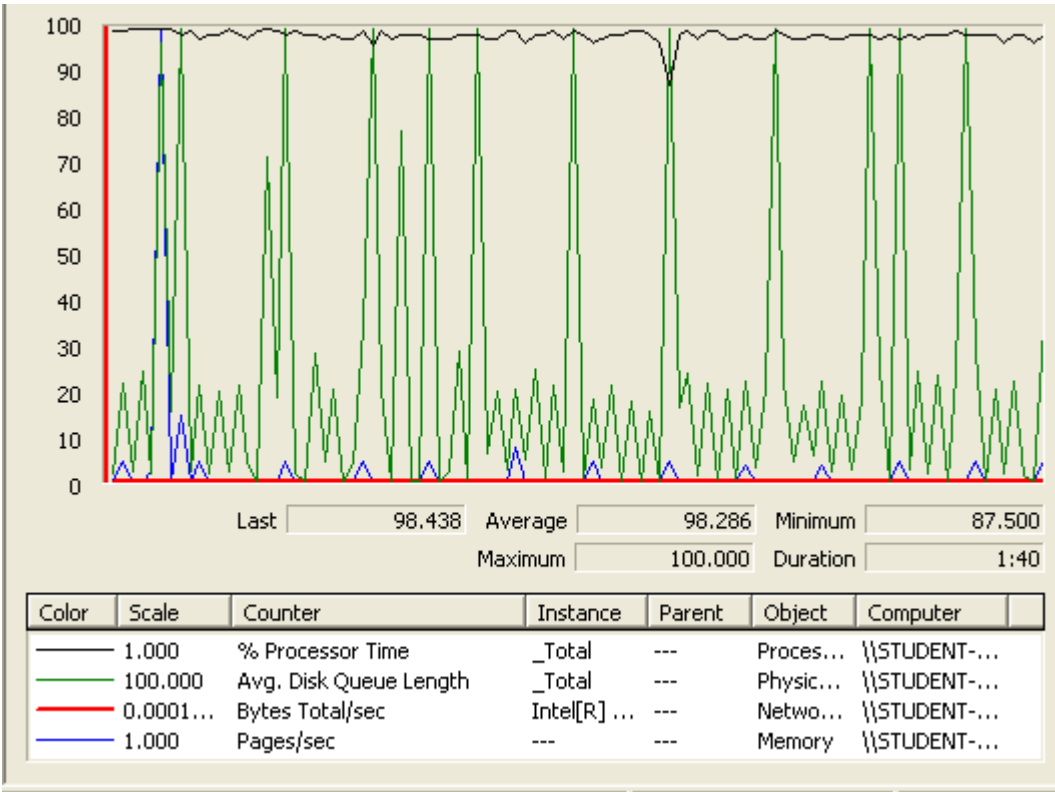
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/lo...	30000	34	19	44	2	4149	0.00%	62.7/sec	234.1
/j_spring_...	30000	773	519	1713	8	12078	0.00%	62.7/sec	293.3
/	30000	412	258	981	3	10539	0.00%	62.8/sec	280.5
/managerA...	30000	413	251	978	4	9991	0.00%	62.8/sec	424.9
/managerA...	30000	476	314	1030	12	11887	0.00%	62.8/sec	436.7
TOTAL	150000	422	213	1060	2	12078	0.00%	313.6/sec	1667.7



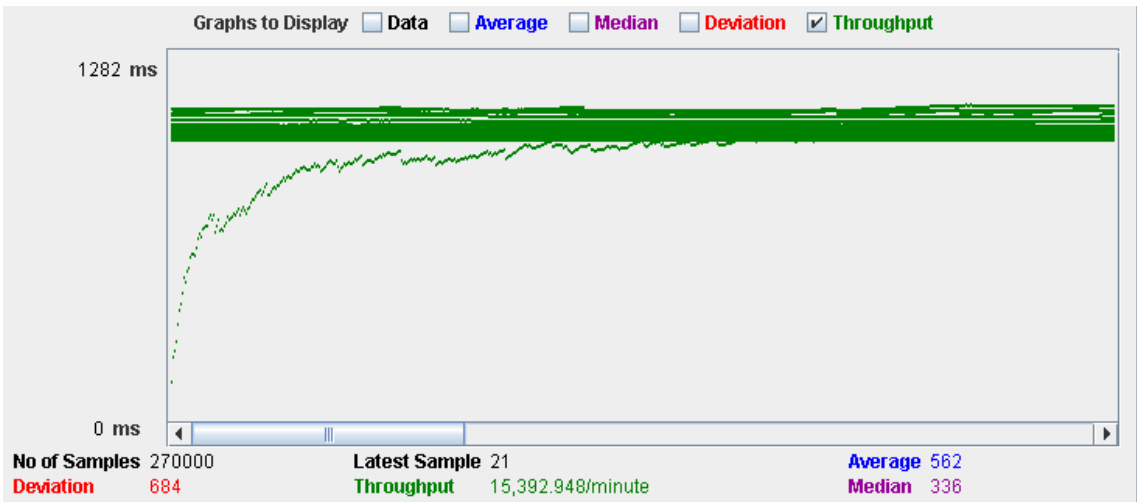
List and edit restaurant



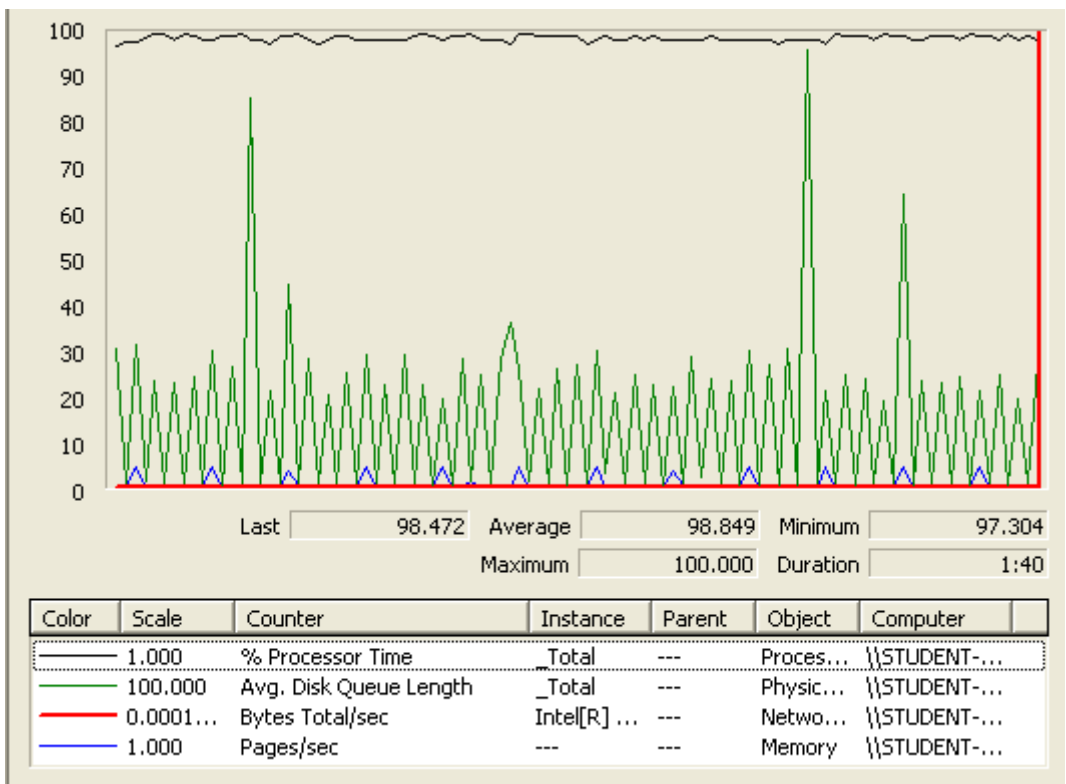
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	548	357	1301	4	8250	0.00%	75.4/sec	523.6
/security/login.do	30000	17	17	27	2	139	0.00%	37.7/sec	137.9
/j_spring_security...	30000	1041	814	2200	10	9224	0.00%	37.7/sec	176.2
/managerActor/r...	30000	535	337	1306	6	8138	0.00%	37.7/sec	248.1
/managerActor/r...	60000	540	349	1296	6	9738	0.00%	75.4/sec	548.7
TOTAL	210000	539	316	1387	2	9738	0.00%	263.8/sec	1634.3



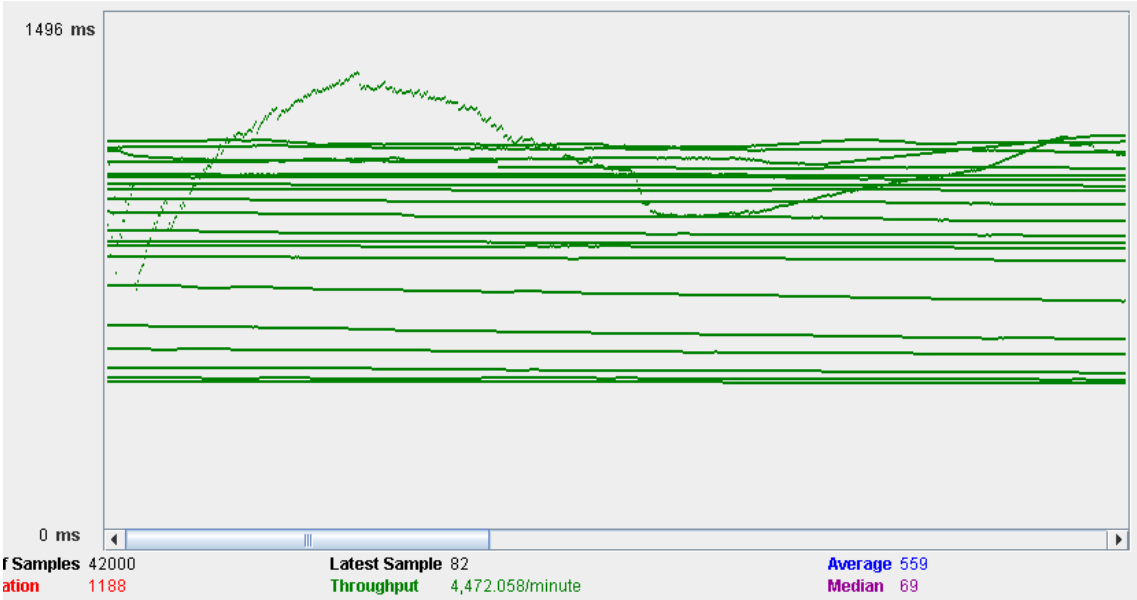
Disable and enable restaurant



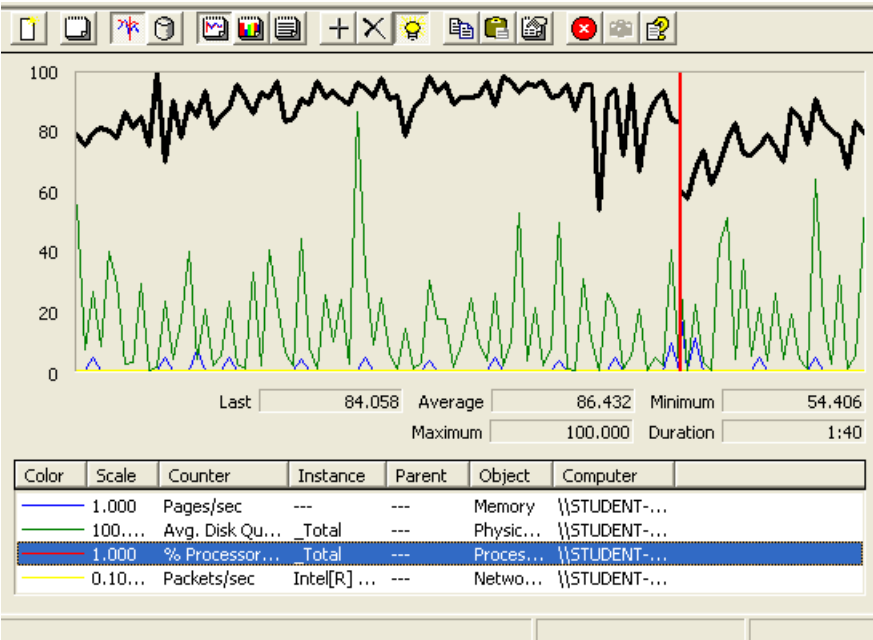
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	571	368	1370	4	7511	0.00%	57.0/sec	379.6
/security/lo...	30000	16	16	25	2	530	0.00%	28.5/sec	104.3
/j_spring_...	30000	1097	872	2310	12	8195	0.00%	28.5/sec	133.3
/managerA...	30000	555	349	1358	5	6663	0.00%	28.5/sec	187.7
/managerA...	120000	562	358	1360	6	7727	0.00%	114.0/sec	821.4
TOTAL	270000	562	336	1435	2	8195	0.00%	256.5/sec	1626.2



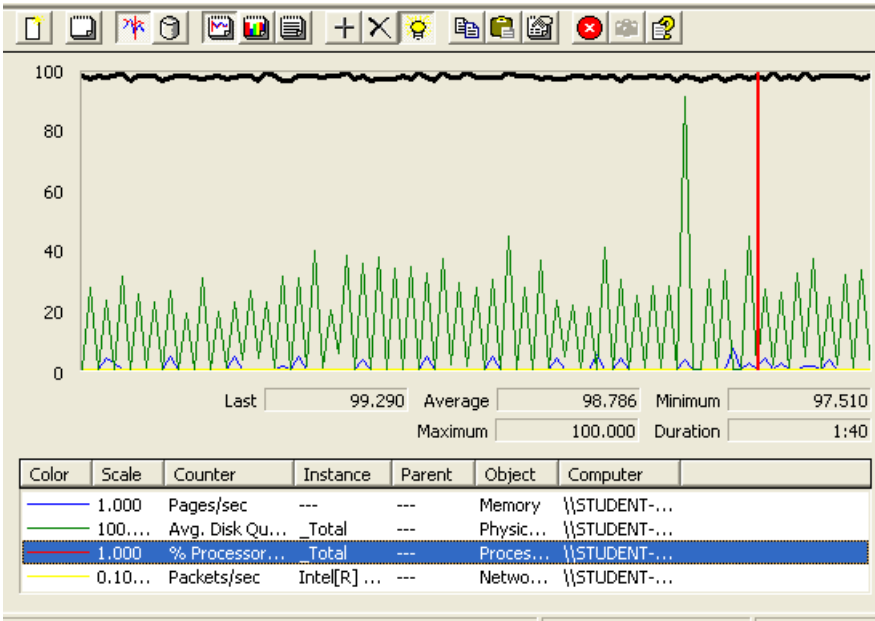
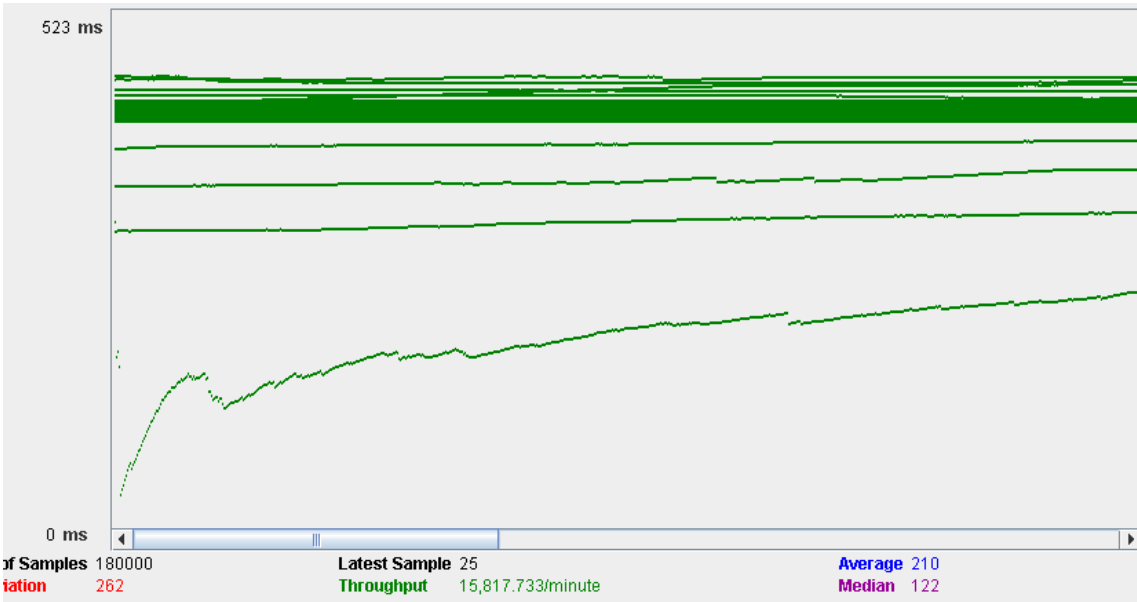
Create Social Identity



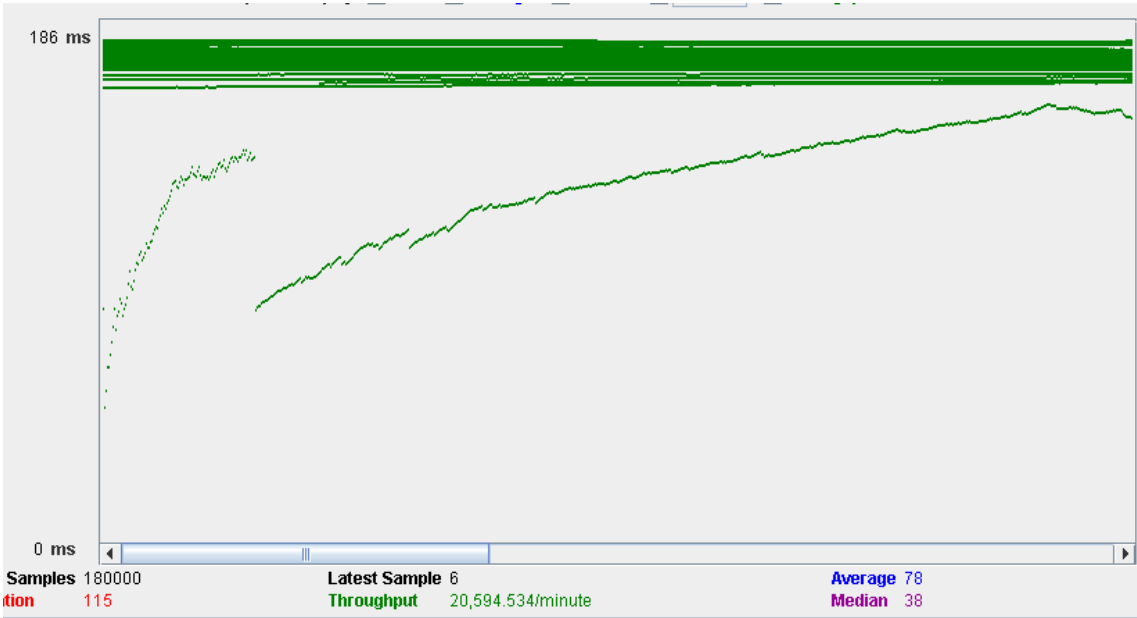
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login...	7000	115	14	438	2	983	0.00%	12.4/sec	46.5
/j_spring_sec...	7000	911	132	3051	6	24608	0.00%	12.4/sec	58.2
/	7000	448	39	1403	3	11742	0.00%	12.4/sec	55.6
/managerAct...	7000	469	48	1480	4	11334	0.00%	12.4/sec	76.6
/socialIdentity...	7000	546	62	1627	3	15344	0.00%	12.4/sec	71.2
/socialIdentity...	7000	866	277	2379	12	12684	0.00%	12.4/sec	107.5
TOTAL	42000	559	69	1643	2	24608	0.00%	74.5/sec	414.7



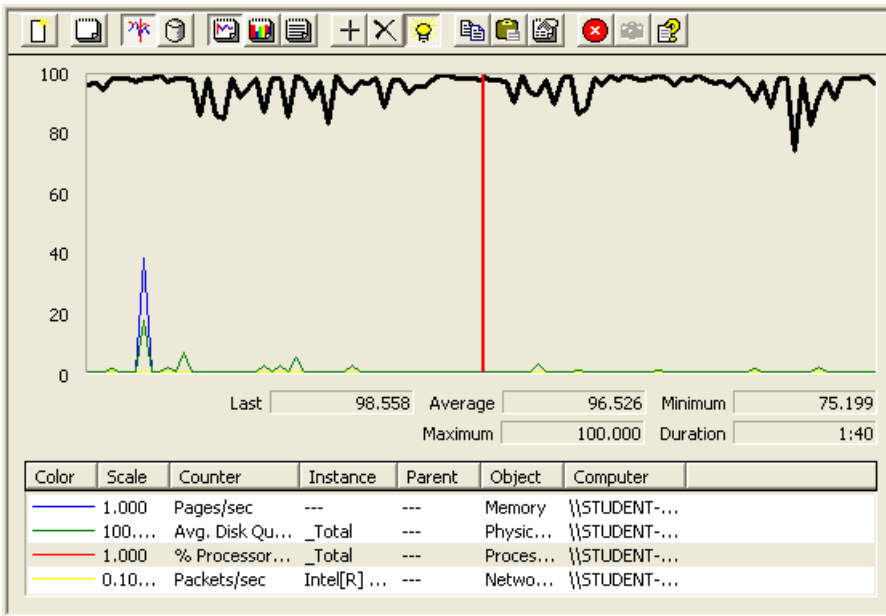
Edit Social Identity



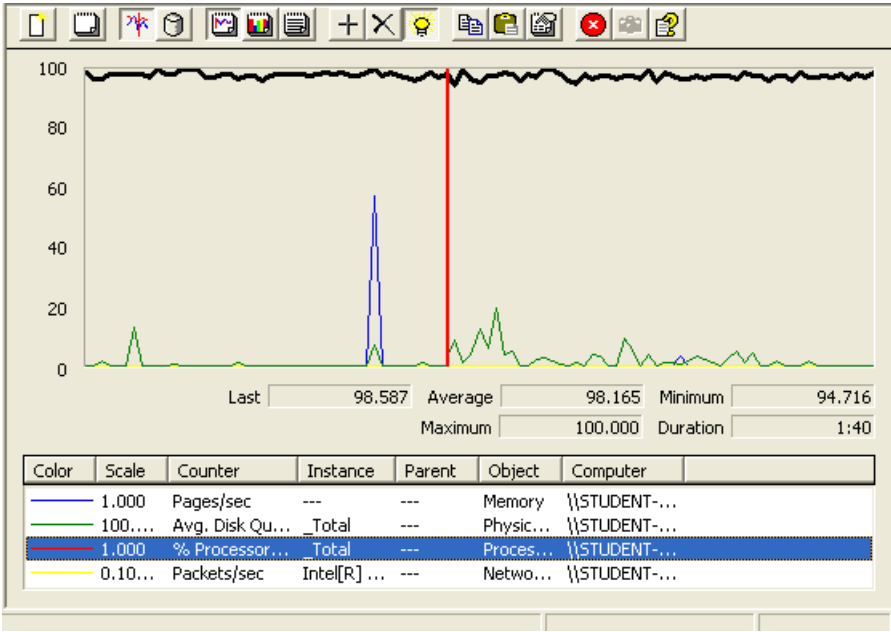
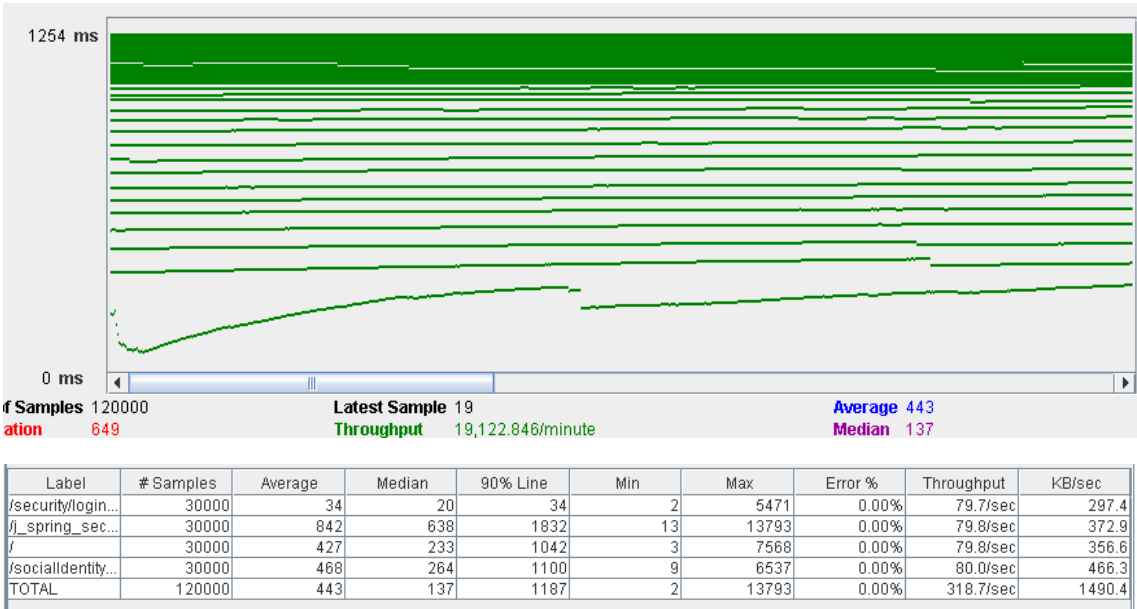
Delete Social Identity



Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login...	30000	11	9	17	2	658	0.00%	57.3/sec	214.0
/j_spring_sec...	30000	148	90	336	6	2119	0.00%	57.3/sec	268.0
/	30000	71	34	174	3	1521	0.00%	57.3/sec	256.2
/socialIdentity...	30000	91	59	196	5	1750	0.00%	57.3/sec	315.1
/socialIdentity...	60000	73	35	174	3	1843	0.00%	114.6/sec	1064.6
TOTAL	180000	78	38	191	2	2119	0.00%	343.2/sec	2113.8



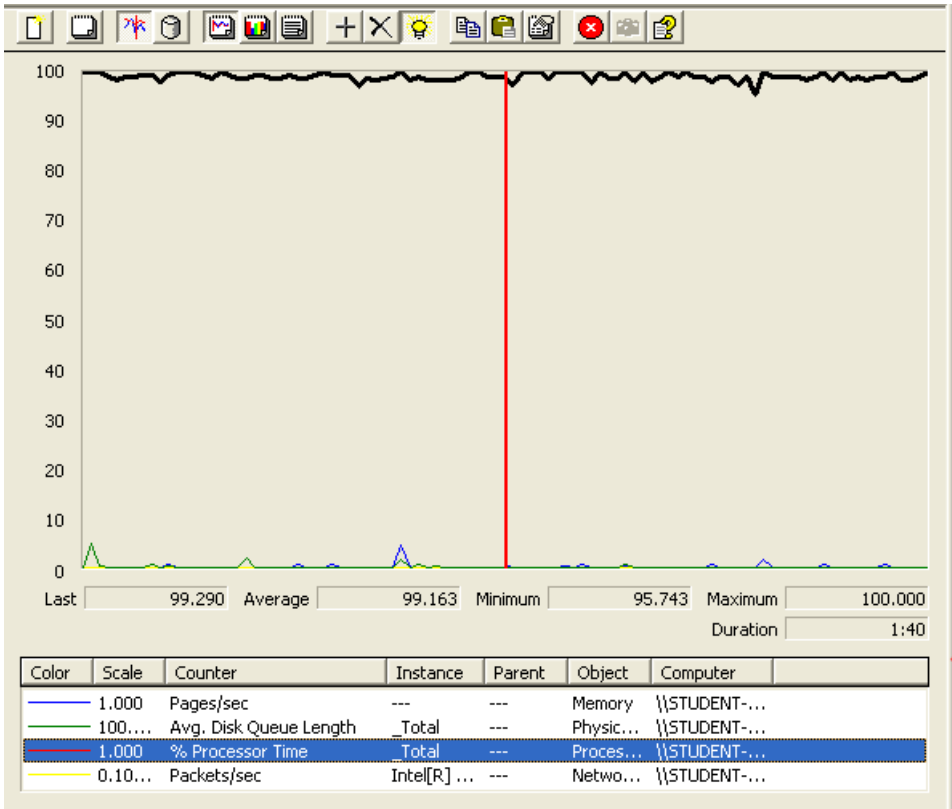
List Social Identity



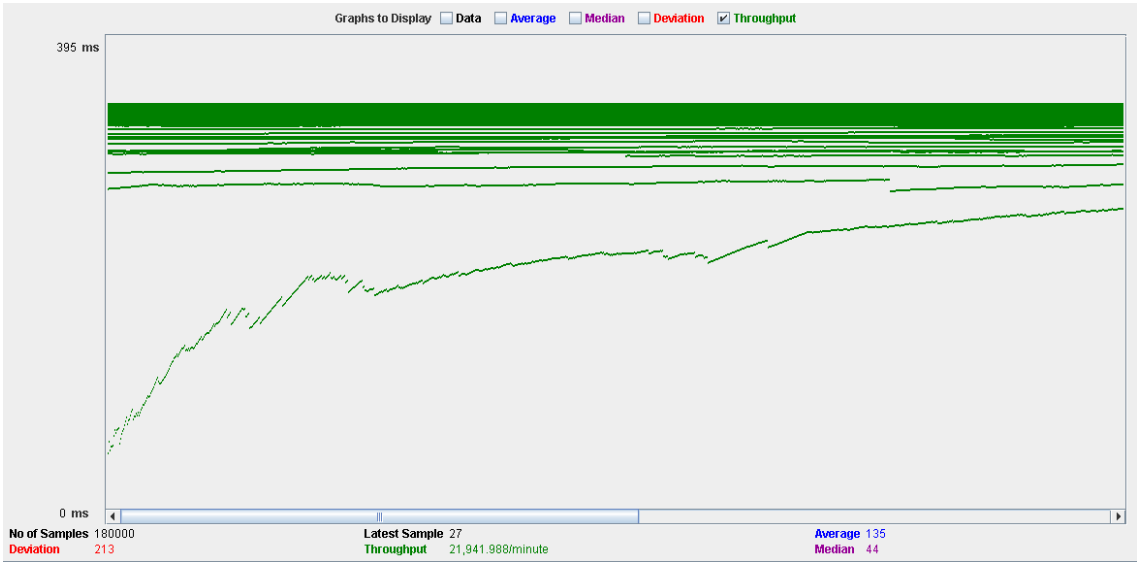
Dashboard



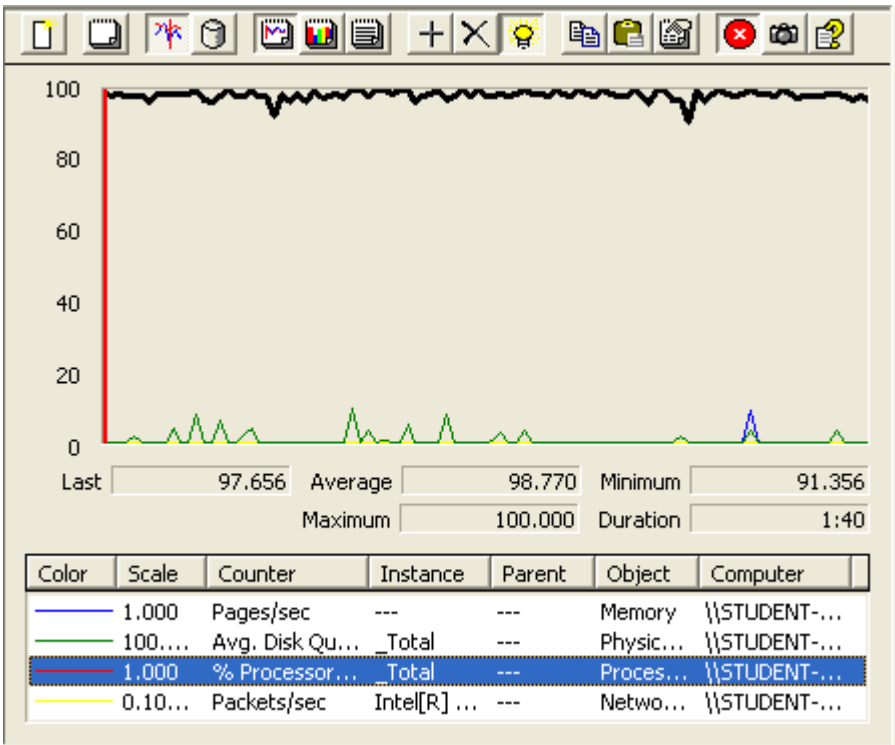
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/securitylogin.do	30000	7	6	10	1	445	0.00%	80.8/sec	301.4
/j_spring_security_check	30000	120	84	246	6	3131	0.00%	80.7/sec	377.6
/	30000	55	31	127	3	1078	0.00%	80.7/sec	360.6
/managerActorDashboa	30000	119	102	203	10	1107	0.00%	80.7/sec	454.6
TOTAL	120000	75	50	176	1	3131	0.00%	323.0/sec	1594.2



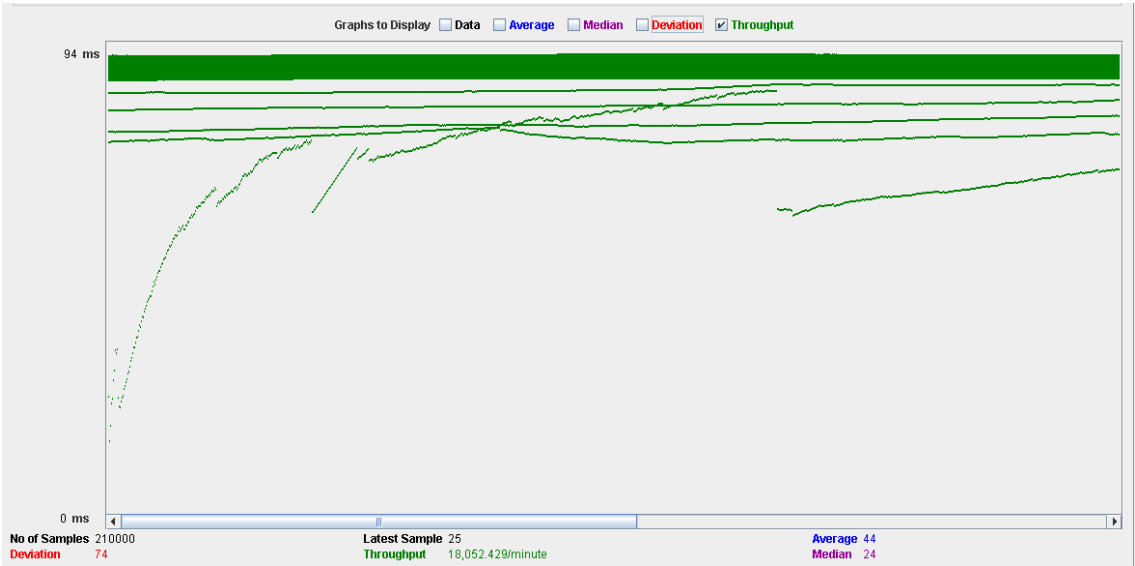
List and display monthlybills



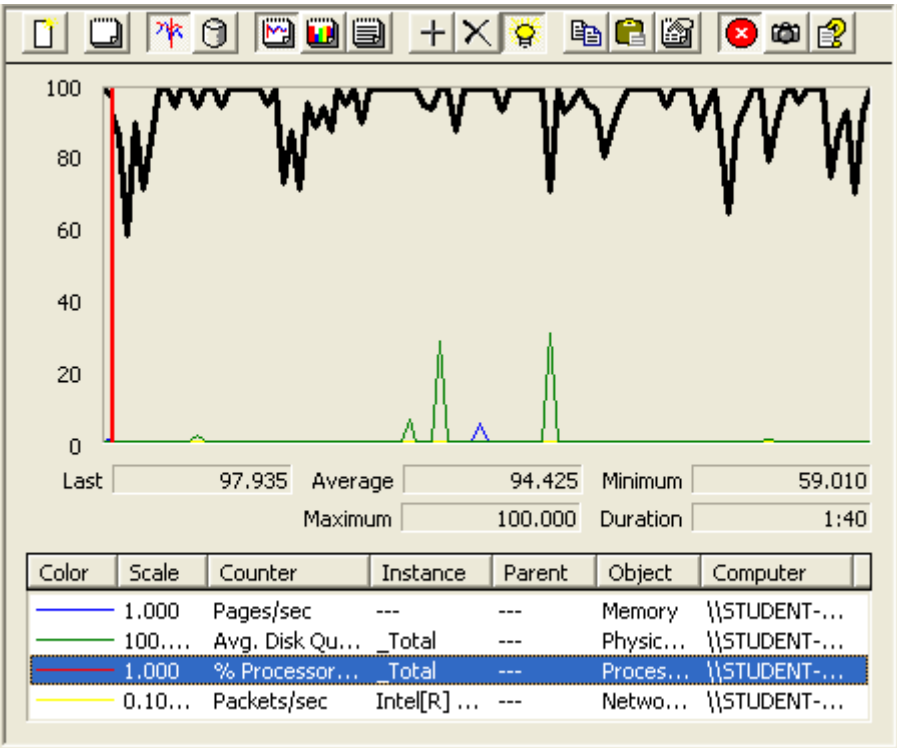
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	14	11	24	2	474	0.00%	61.0/sec	227.7
/images/logo.png	30000	12	10	23	1	419	0.00%	61.0/sec	1652.5
/j_spring_security...	30000	312	214	699	7	3069	0.00%	61.0/sec	285.5
/	30000	161	91	389	4	2704	0.00%	61.0/sec	272.6
/managerActor/mo...	30000	166	102	389	5	2532	0.00%	61.0/sec	297.4
/managerActor/mo...	30000	142	71	356	4	2298	0.00%	61.0/sec	305.3
TOTAL	180000	135	44	370	1	3069	0.00%	365.7/sec	3040.3



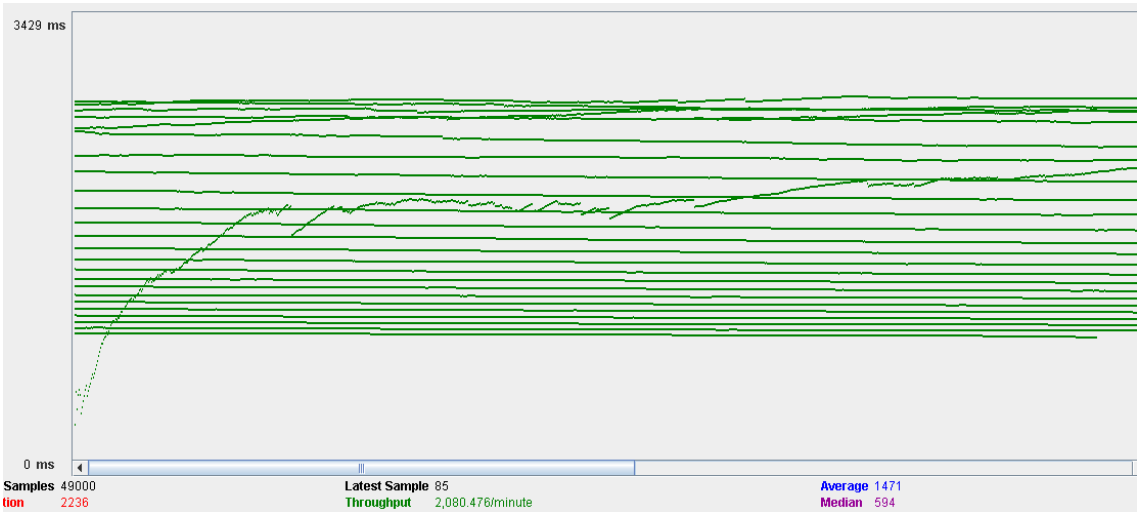
Manage orders



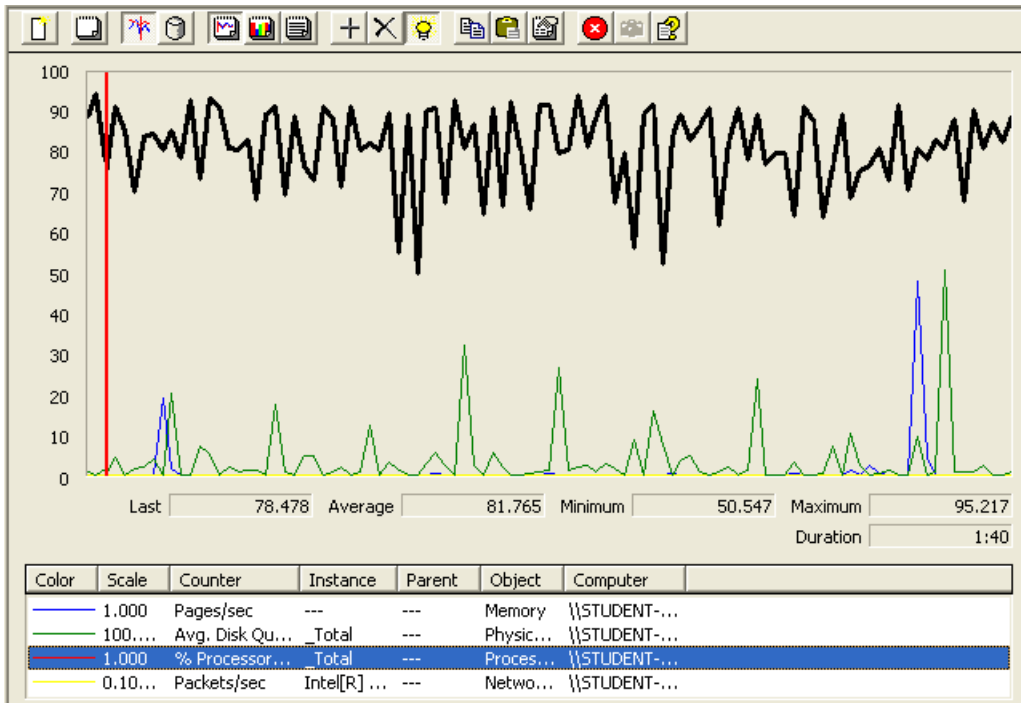
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	10	8	17	2	1275	0.00%	43.1/sec	160.9
/j_spring_security_c...	30000	82	50	172	4	2491	0.00%	43.1/sec	201.8
/	30000	40	22	83	3	2116	0.00%	43.1/sec	192.6
/managerActor/categ...	60000	43	27	84	4	1926	0.00%	86.0/sec	442.6
/managerActor/categ...	30000	37	21	73	4	2321	0.00%	43.1/sec	224.9
/managerActor/categ...	30000	54	36	106	6	2276	0.00%	43.1/sec	229.0
TOTAL	210000	44	24	93	2	2491	0.00%	300.9/sec	1449.4



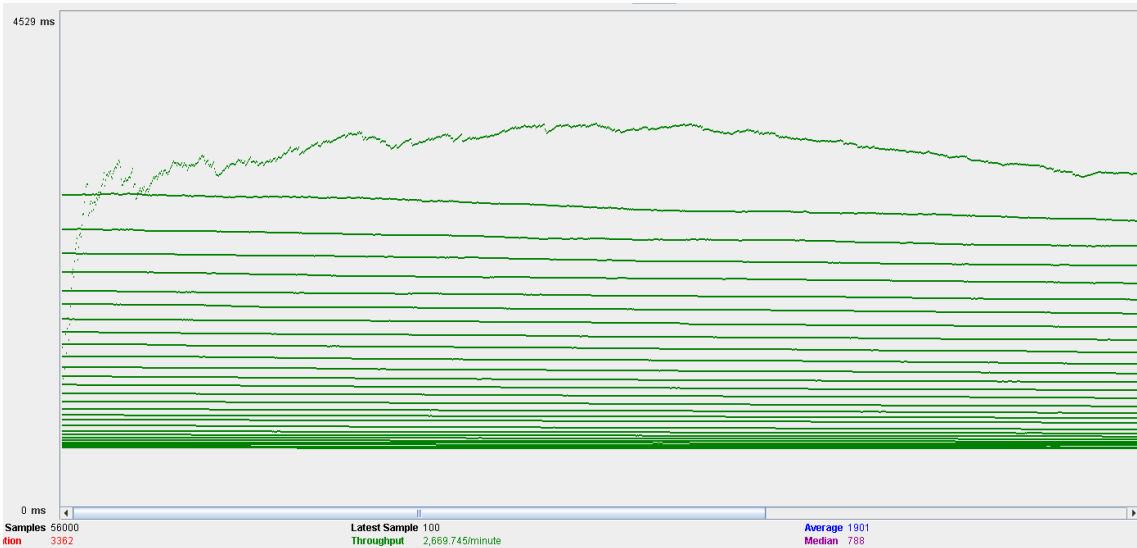
Promote a restaurant



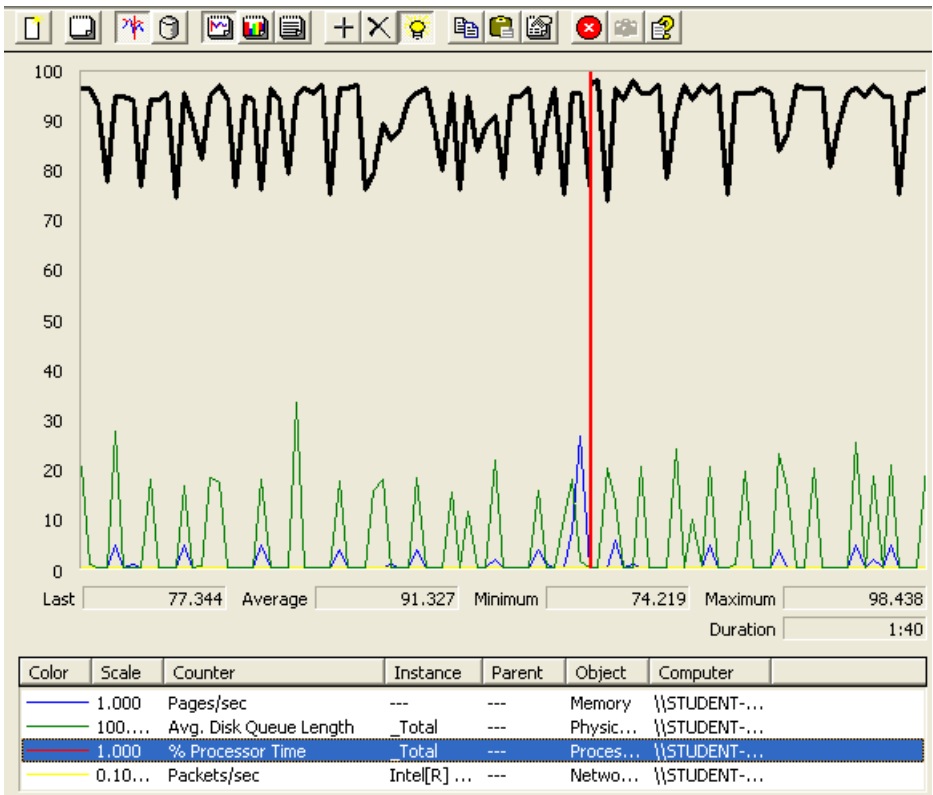
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	14000	1999	1137	5031	4	25995	0.00%	9.9/sec	91.3
/securitylogin.do	7000	31	15	65	3	833	0.00%	5.0/sec	18.2
/j_spring_security...	7000	2321	1239	5947	9	34500	0.00%	5.0/sec	23.2
/managerActor/pro...	7000	1287	597	3357	13	33902	0.00%	5.0/sec	36.4
/managerActor/pro...	14000	1328	645	3337	15	23609	0.00%	9.9/sec	73.3
TOTAL	49000	1471	594	4036	3	34500	0.00%	34.7/sec	242.0



Report comment as manager



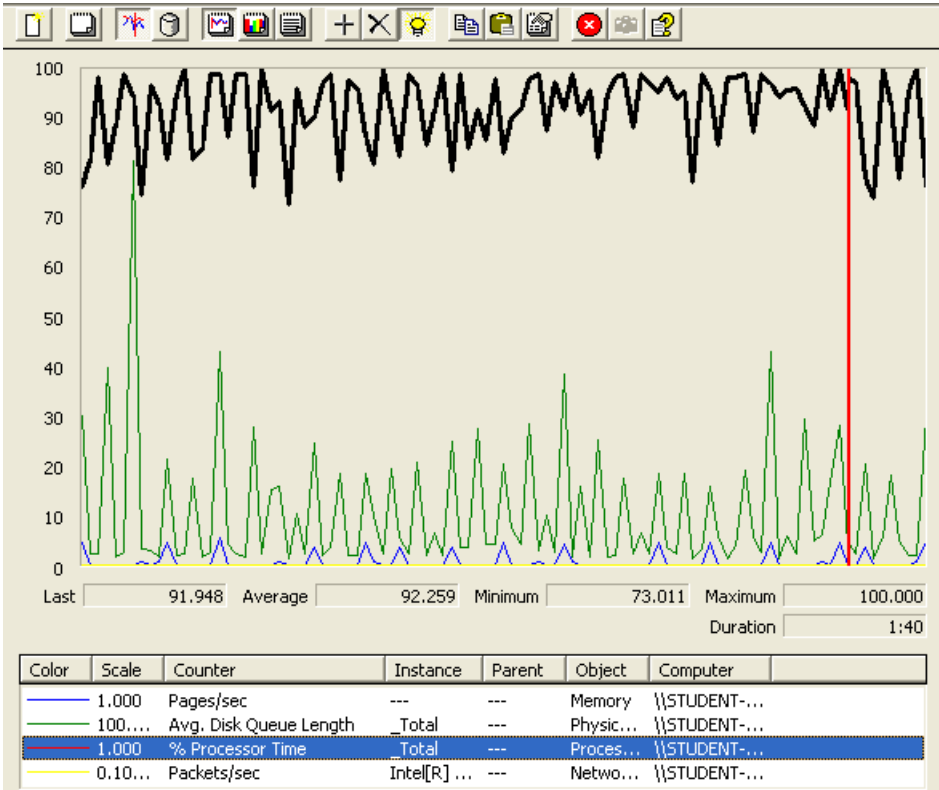
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/securitylogin.do	7000	55	25	87	2	1091	0.00%	5.6/sec	20.8
/j_spring_security_check	7000	3035	1591	7197	22	57019	0.00%	5.6/sec	28.0
/	7000	1580	577	3858	4	48888	0.00%	5.6/sec	24.9
/restaurantbrowse.do	7000	1603	641	3869	5	48024	0.00%	5.6/sec	40.2
/restaurantdisplay.do	14000	1931	1037	4393	19	48019	0.00%	11.1/sec	1203.3
/reportedit.do	14000	2538	1287	6177	3	62157	0.00%	11.1/sec	632.5
TOTAL	56000	1901	788	4785	2	62157	0.00%	44.5/sec	1947.5



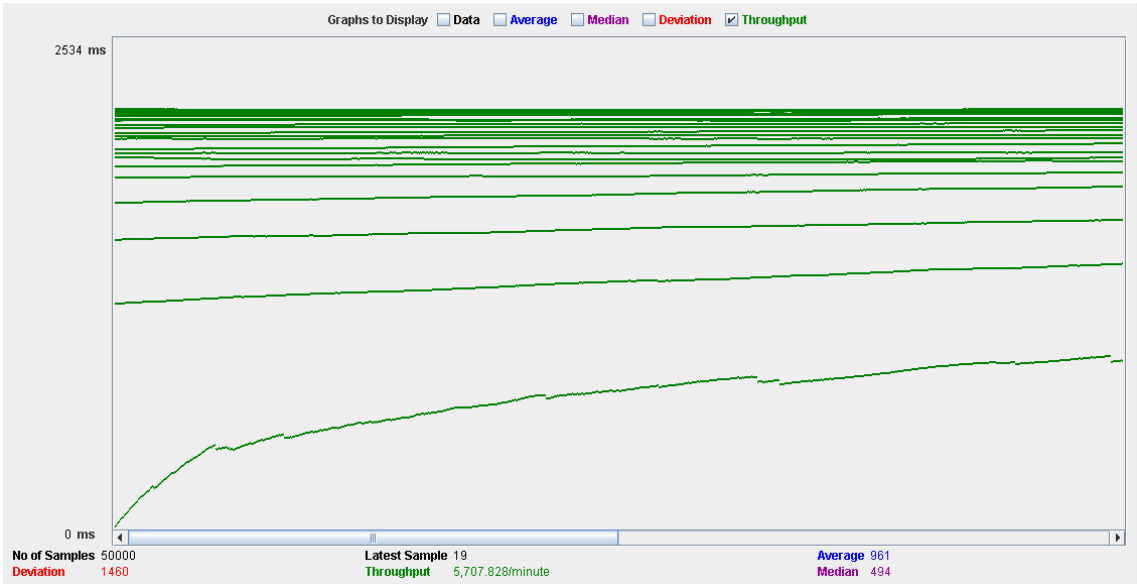
Register a critic



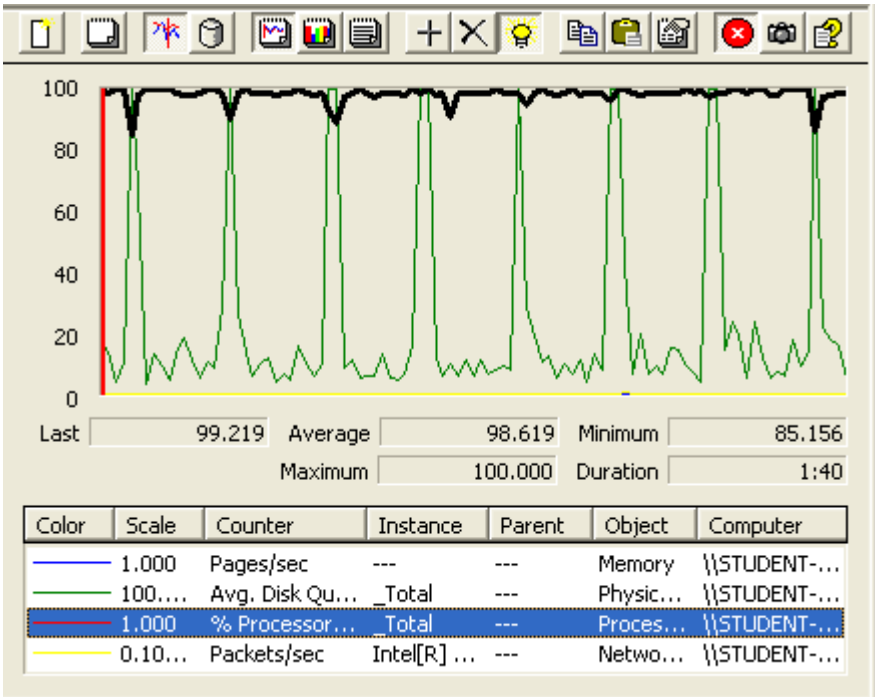
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	56	31	126	3	2100	0.00%	86.4/sec	551.2
/securelogin.do	30000	7	6	11	2	933	0.00%	43.3/sec	159.5
/l_spring_security_check	30000	87	39	204	4	2592	0.00%	43.3/sec	192.4
/images/arrow_down.png	30000	4	4	8	0	1121	0.00%	43.3/sec	19.0
/criticregister.do	60000	54	25	120	2	2201	0.00%	86.6/sec	578.7
/welcome/index.do	30000	35	16	72	3	1549	0.00%	43.3/sec	183.5
TOTAL	240000	44	17	101	0	2592	0.00%	345.0/sec	1677.0



Generate monthly bills



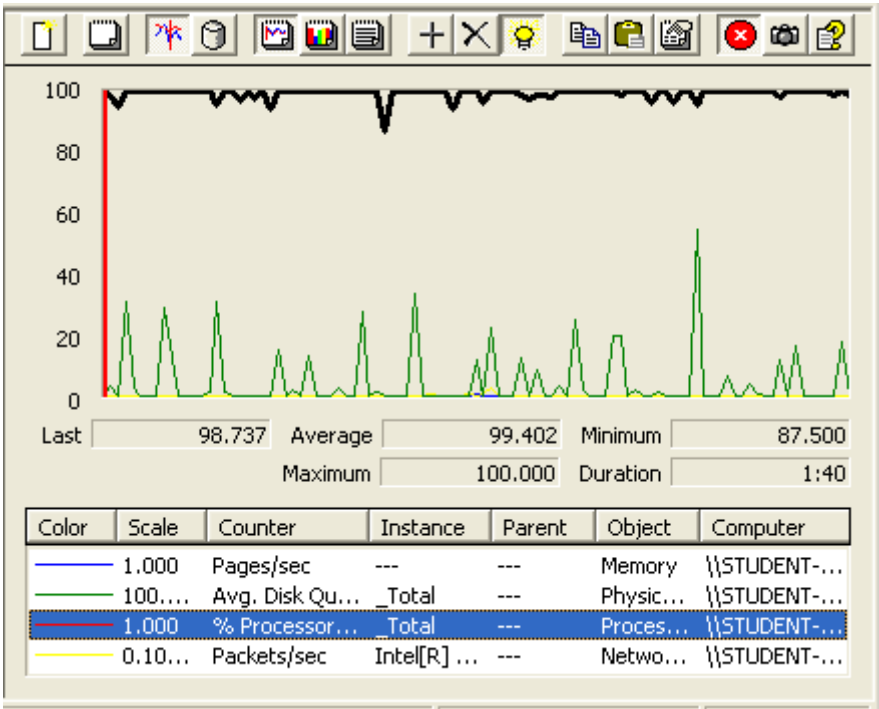
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	10000	77	31	62	5	5121	0.00%	19.0/sec	71.1
/j_spring_security...	10000	1516	1011	3253	28	22473	0.00%	19.1/sec	85.2
/	10000	774	417	1864	11	17427	0.00%	19.2/sec	81.5
/administrator/mo...	10000	1689	1205	3390	40	26438	0.00%	19.2/sec	85.1
/welcome/index.do	10000	751	408	1822	8	24212	0.00%	19.3/sec	81.9
TOTAL	50000	961	494	2418	5	26438	0.00%	95.1/sec	401.0



List monthly bills



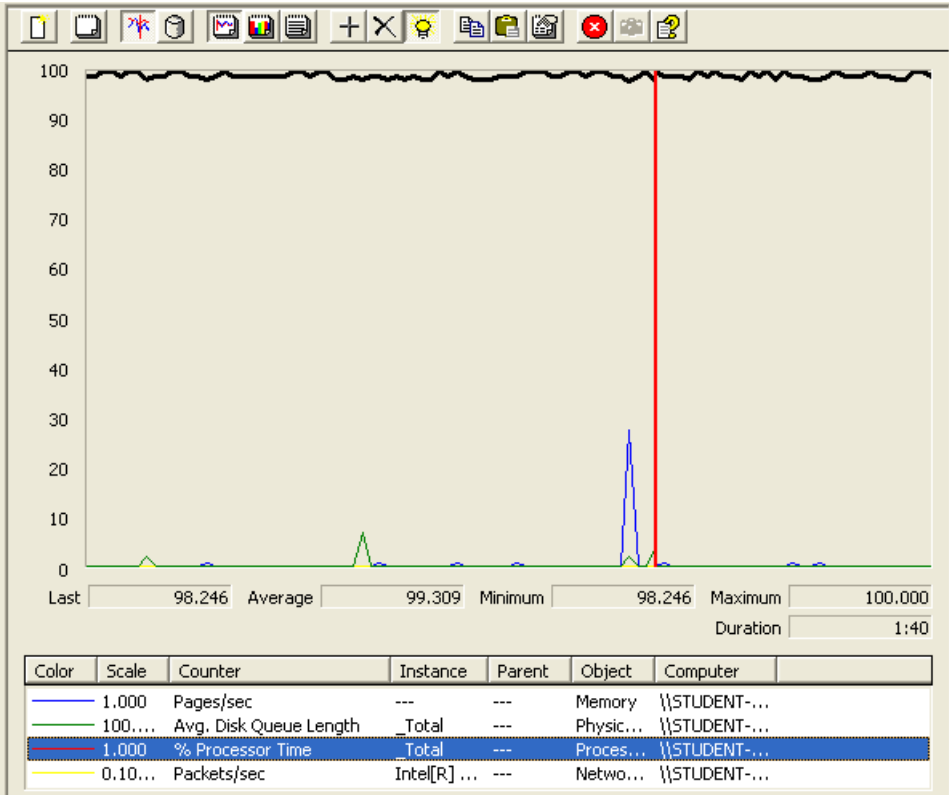
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/securitylogin.do	30000	48	20	46	3	8790	0.00%	38.6/sec	144.1
/j_spring_security...	30000	1013	715	2237	14	13294	0.00%	38.6/sec	171.8
/	30000	490	268	1214	7	10970	0.00%	38.7/sec	164.0
/images/arrow_do...	30000	19	15	36	1	719	0.00%	38.7/sec	17.0
/administrator/mo...	30000	516	291	1245	11	11507	0.00%	38.7/sec	204.5
TOTAL	150000	417	85	1209	1	13294	0.00%	193.0/sec	700.1



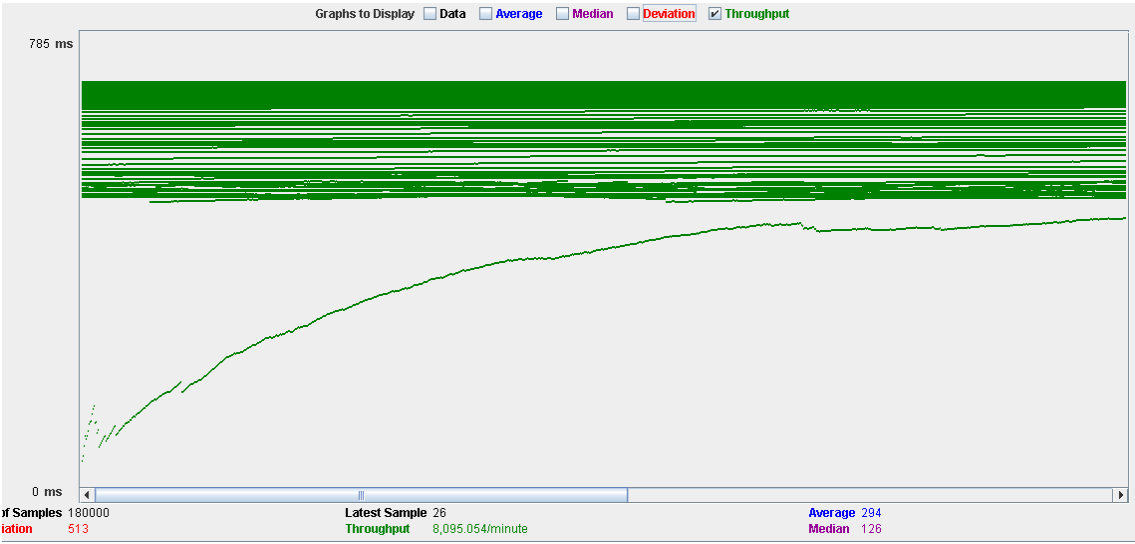
Dashboard



Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/security/login.do	30000	7	7	11	2	465	0.00%	44.6/sec	166.4
/j_spring_security_check	30000	733	560	1563	6	6788	0.00%	44.6/sec	198.0
/	30000	389	228	901	3	6788	0.00%	44.6/sec	189.7
/administrator/dashboard	30000	544	410	1076	21	5347	0.00%	44.6/sec	417.2
TOTAL	120000	413	254	1058	2	6788	0.00%	178.3/sec	970.2



Ban user



Aggregate Report

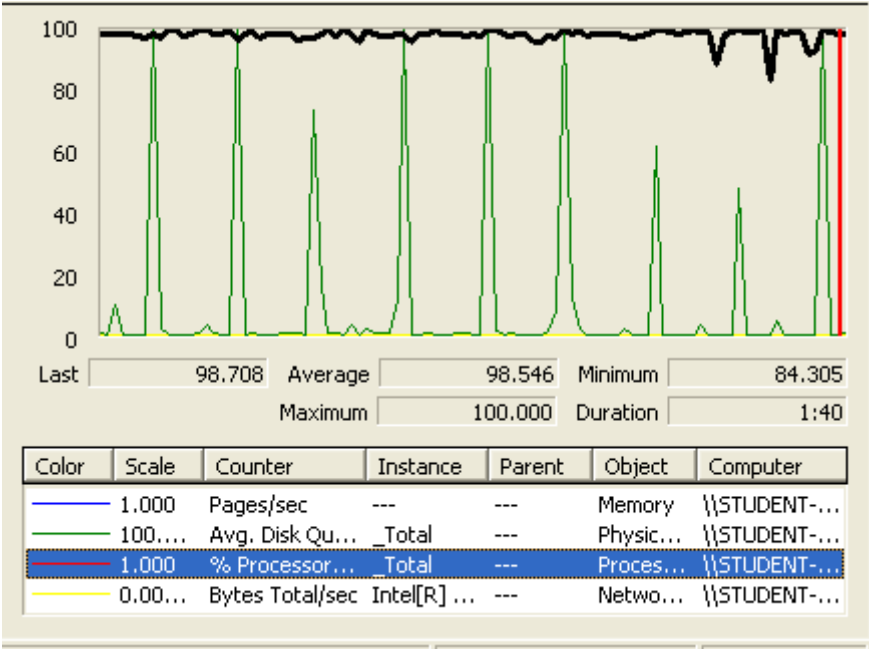
Name:

Comments:

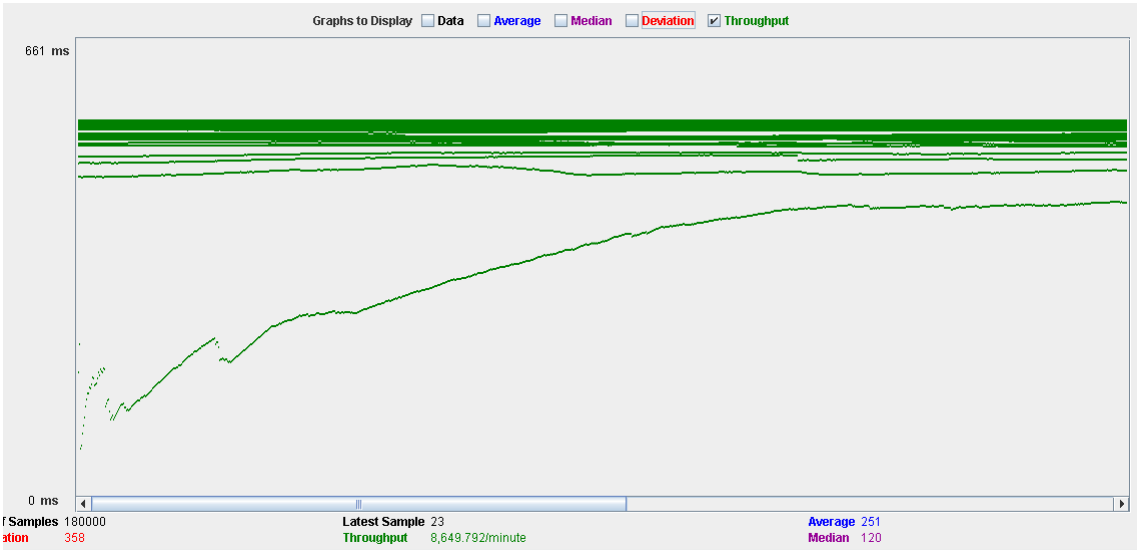
Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	320	175	742	4	10317	0.00%	45.1/sec	314.0
/security/login.do	30000	23	19	42	0	729	0.00%	22.6/sec	82.6
/j_spring_security...	30000	501	266	1210	7	12874	0.00%	22.6/sec	100.3
/administrator/ban...	30000	260	114	603	8	10862	0.00%	22.6/sec	110.7
/administrator/ban...	30000	341	185	802	9	12840	0.00%	22.6/sec	110.7
TOTAL	180000	294	126	725	0	12874	0.00%	134.9/sec	715.7



Unban user



Aggregate Report

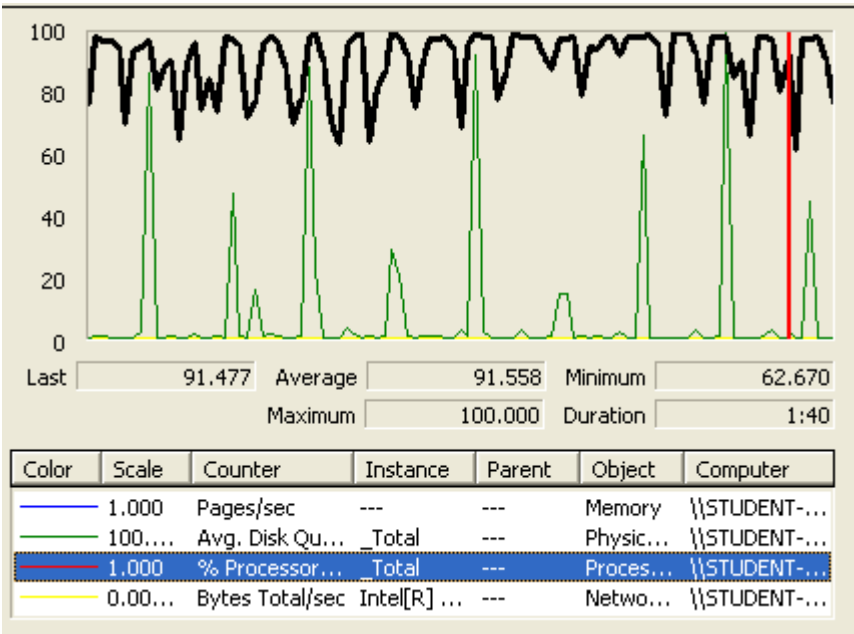
Name: Aggregate Report

Comments:

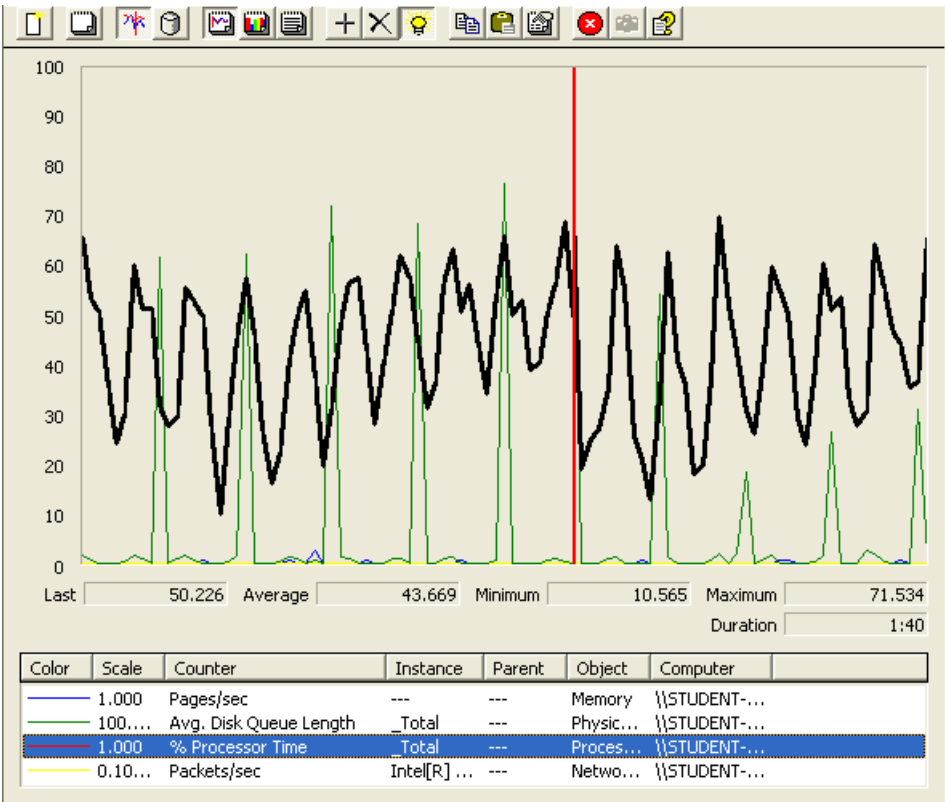
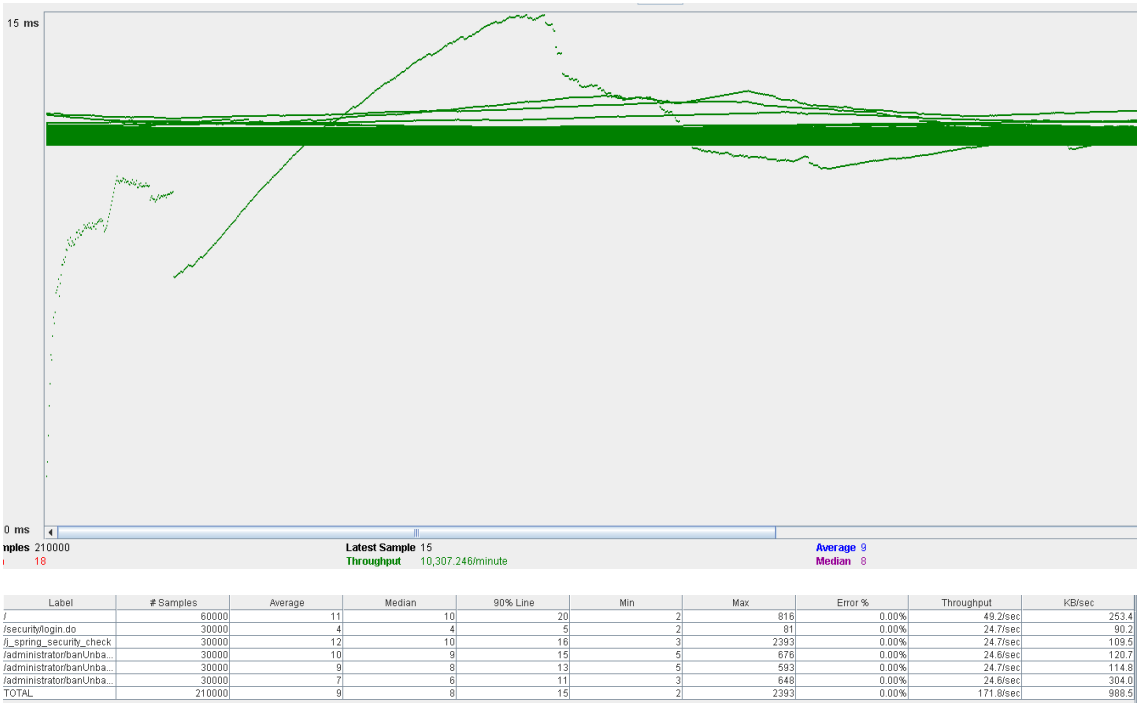
Write results to file / Read from file

Filename: ☐ Log/Display Only ☐ Errors ☐ Successes

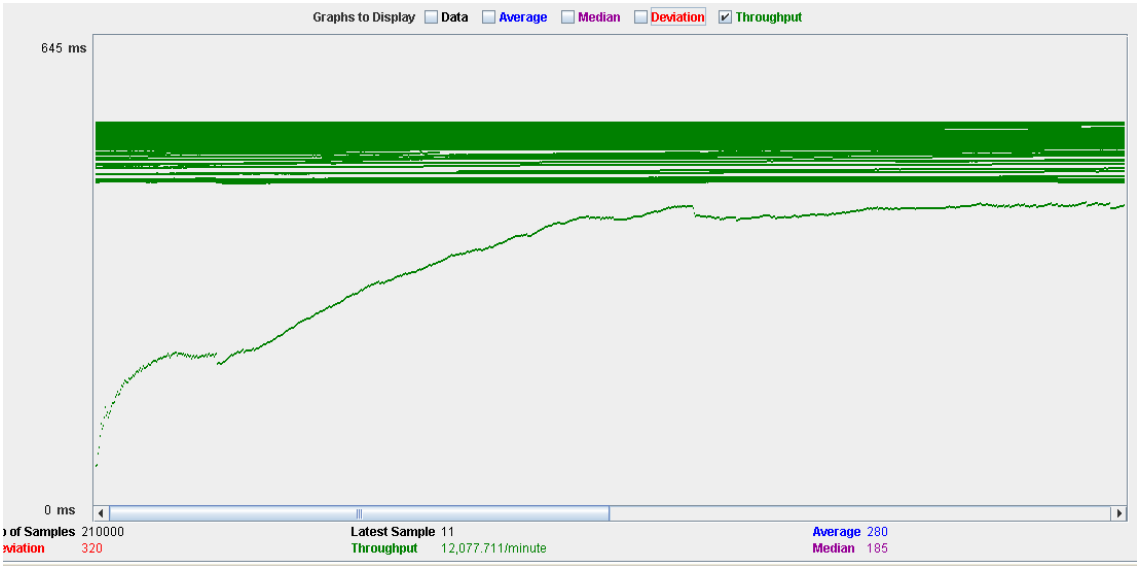
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	270	162	640	5	6109	0.00%	48.2/sec	334.6
/security/login.do	30000	18	15	31	0	521	0.00%	24.1/sec	88.3
/j_spring_security...	30000	453	289	1074	10	5737	0.00%	24.1/sec	107.1
/administrator/ban...	30000	200	100	488	3	5426	0.00%	24.1/sec	118.0
/administrator/ban...	30000	293	165	703	8	5889	0.00%	24.1/sec	118.0
TOTAL	180000	251	120	653	0	6109	0.00%	144.2/sec	763.6



Browse reported users



Edit fee



Aggregate Report

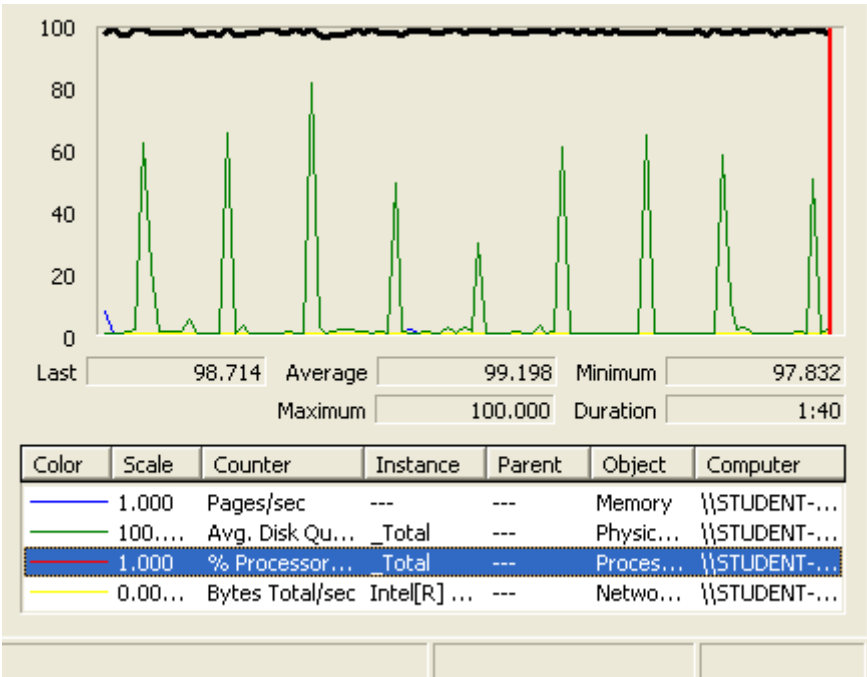
Name:

Comments:

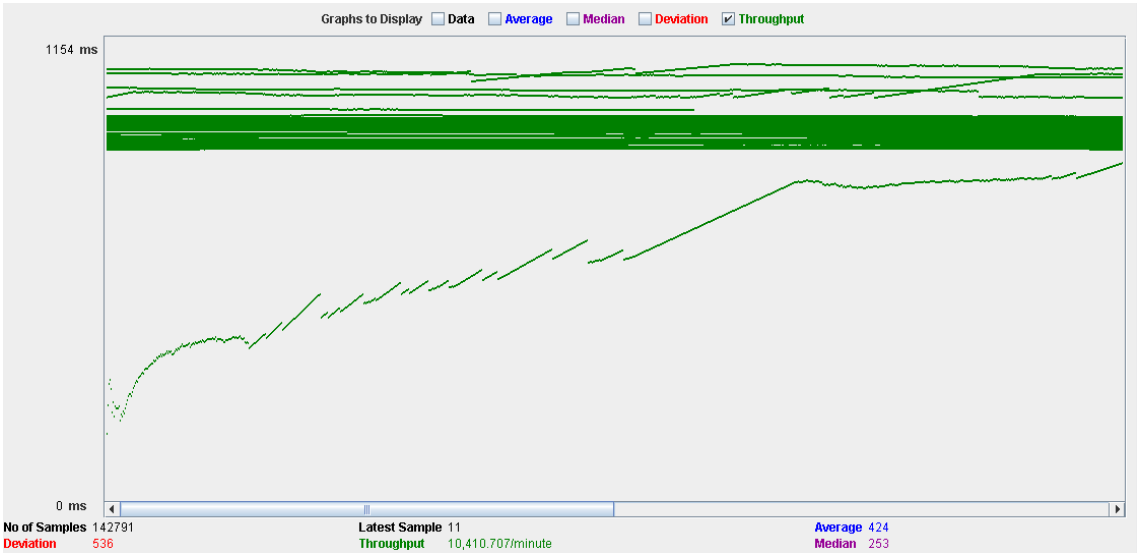
Write results to file / Read from file

Filename: Log/Display Only: ☐ Errors ☐ Successes

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	269	199	583	3	3388	0.00%	57.6/sec	388.9
/security/login.do	30000	15	12	25	3	912	0.00%	28.9/sec	105.6
/j_spring_security...	30000	469	365	954	8	5053	0.00%	28.9/sec	128.2
/administrator/feef...	60000	352	248	776	5	4307	0.00%	57.7/sec	265.6
/welcome/index.do	30000	234	158	549	4	2792	0.00%	28.9/sec	122.2
TOTAL	210000	280	185	666	3	5053	0.00%	201.3/sec	1007.6



Edit vat number



Aggregate Report

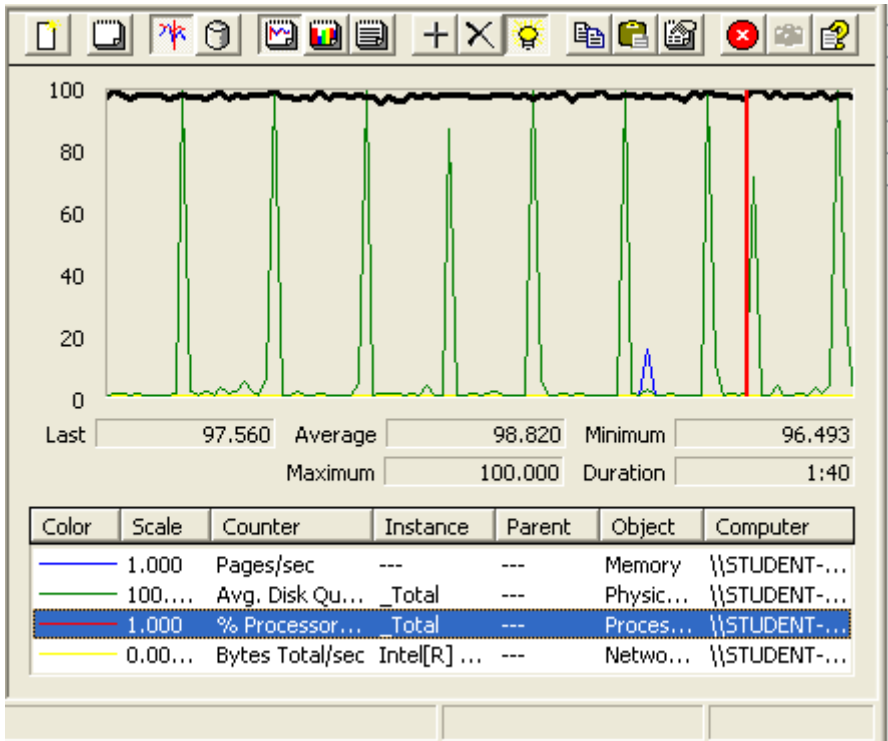
Name: Aggregate Report

Comments:

Write results to file / Read from file

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

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/	60000	582	339	1431	3	11453	0.00%	36.9/sec	238.9
/security/login.do	30000	26	15	62	3	1613	0.00%	18.5/sec	67.7
/j_spring_security...	30000	1065	734	2449	9	12379	0.00%	18.5/sec	82.1
/administrator/vat...	60000	817	485	2016	3	14930	0.00%	37.0/sec	171.1
/welcome/index.do	30000	523	271	1355	4	14451	0.00%	18.5/sec	78.4
TOTAL	210000	630	315	1672	3	14930	0.00%	129.2/sec	636.9



Conclusiones

Como podemos observar en todos los test al aumentar el número de usuarios más tarda en realizarse cada acción. Además, podemos ver que el procesador es nuestro cuello de botella, si lo reemplazamos por un procesador más potente podríamos aumentar la cantidad de usuarios simultáneos.

Se han encontrado casos de uso que en los cuales hemos tenido que bajar mucho los usuarios y veces que se repetían. Estos casos eran aquellos que creaban una entidad nueva y luego se listaban todas. Al principio no pasaba nada, pero según avanzaba y cada vez mucho más lento llegando a un punto de no avance.