

Condor-G GT2 performance on resource constrained system

Testing with loadtest_condor v1, 30min jobs

Client in Italy (190ms RTT)

Results at a glance

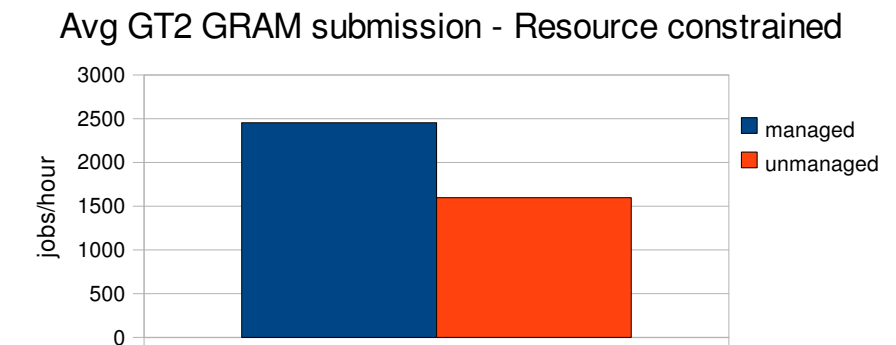
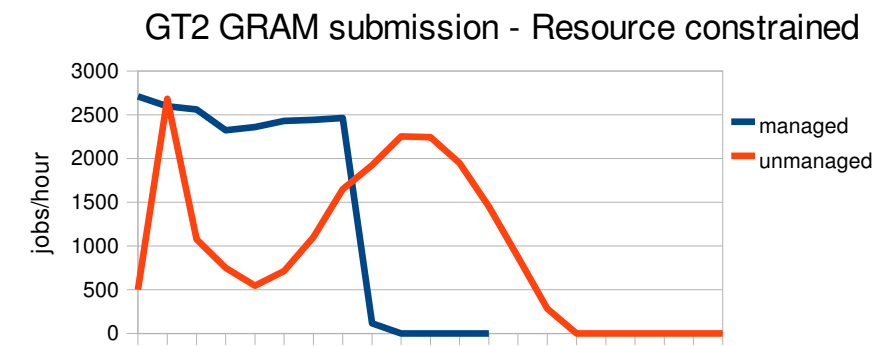
	Avg jobs/hour		Condor-G to Globus submission		Condor-G noticing jobs starting		Condor-G noticing jobs terminating		Limiting one	
Unmanaged			1599		1611		675		675	
Managed			2454	153%	2447	152%	1213	180%	1213	180%

	Avg jobs/minute		Condor-G to Globus submission		Condor-G noticing jobs starting		Condor-G noticing jobs terminating		Limiting one	
Unmanaged			27		27		11		11	
Managed			41	153%	41	152%	20	180%	20	180%

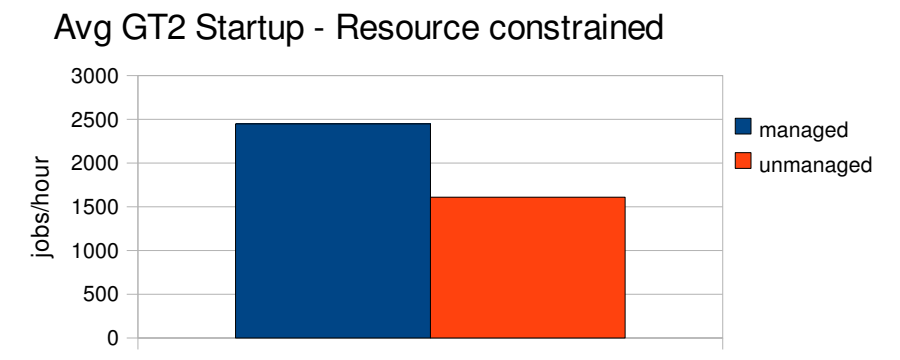
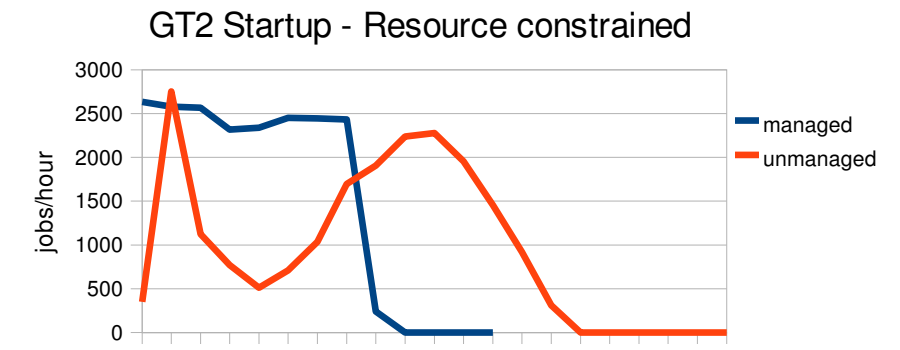
5k total, -maxidle 1k

Submit all 5k as fast as possible

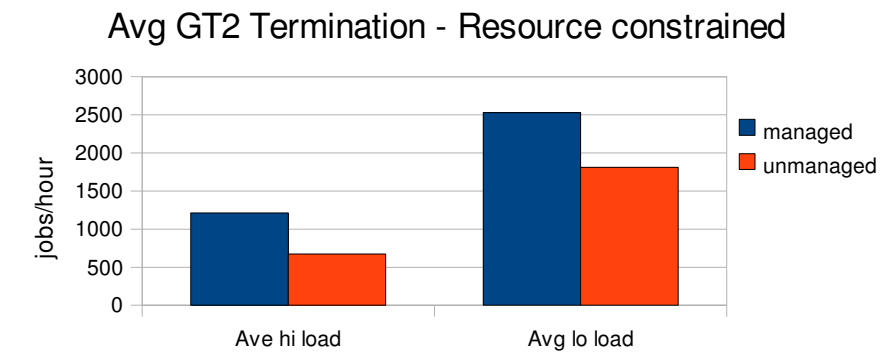
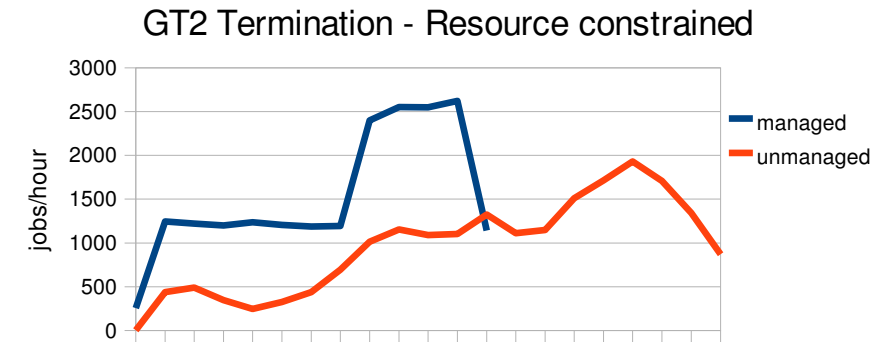
To GRAM	User 1	User 2	User 3	User 4	Total managed	Total unmanaged	User 1	User 2	User 3	User 4
	747	671	647	644	2709	499	182	188	129	0
	631	658	656	653	2598	2684	689	587	620	788
	643	630	640	648	2561	1078	161	146	155	616
	560	573	586	603	2322	750	64	133	89	464
	589	572	600	599	2360	545	104	191	87	163
	614	617	587	611	2429	714	128	183	94	309
	607	628	601	606	2442	1102	133	453	279	237
	609	625	630	599	2463	1651	158	629	325	539
	0	26	53	37	116	1924	414	528	474	508
	0	0	0	0	0	2253	520	583	583	567
	0	0	0	0	0	2243	561	550	620	512
	0	0	0	0	0	1948	578	536	537	297
	0	0	0	0	0	1451	594	293	564	0
						875	432	0	443	0
						283	282	0	1	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
Average	608	615	614	617	2454	1599	349	411	369	470



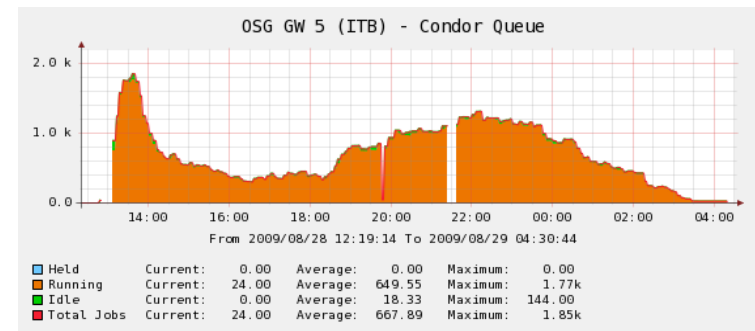
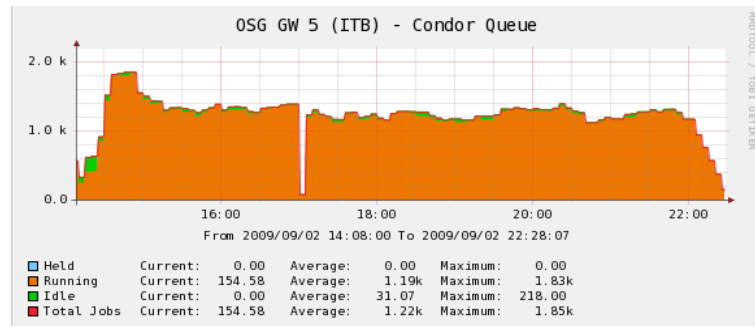
Startup	User 1	User 2	User 3	User 4	Total managed	Total unmanaged	User 1	User 2	User 3	User 4
		721	659	628	625	2633	349	119	144	86
	635	646	651	647	2579	2752	722	631	648	751
	645	630	642	650	2567	1123	188	145	171	619
	551	579	581	606	2317	771	63	134	84	490
	596	556	592	595	2339	511	107	159	77	168
	613	628	596	614	2451	708	107	199	89	313
	607	628	608	602	2445	1035	128	401	271	235
	615	611	605	600	2431	1695	161	677	336	521
	18	64	98	62	242	1906	407	523	468	508
	0	0	0	0	0	2238	509	584	581	564
	0	0	0	0	0	2276	581	560	622	513
	0	0	0	0	0	1955	575	527	534	319
	0	0	0	0	0	1455	581	317	557	0
						920	455	0	465	0
						309	297	0	12	0
						1	1	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
						0	0	0	0	0
Average	609	611	611	616	2447	1611	353	413	377	468



Termination	User 1	User 2	User 3	User 4	Total managed	Total unmanaged	User 1	User 2	User 3	User 4
	80	77	72	26	255	3	1	1	1	0
	308	312	313	313	1246	439	154	118	99	68
	308	304	305	305	1222	489	57	84	90	258
	296	298	303	304	1201	346	43	66	55	182
	315	308	308	306	1237	247	63	76	48	60
	302	302	295	307	1206	327	55	87	46	139
	298	301	294	294	1187	437	69	176	111	81
	296	301	301	294	1192	694	65	273	136	220
	617	598	571	611	2397	1015	226	282	242	265
	627	636	650	638	2551	1154	275	291	299	289
	645	619	642	643	2549	1091	275	269	292	255
	650	659	655	656	2620	1102	278	256	264	304
	259	286	292	304	1141	1324	234	352	229	509
						1113	160	334	204	415
						1147	151	377	258	361
						1509	326	405	357	421
						1714	404	415	409	486
						1930	453	520	480	477
						1709	509	499	490	211
						1343	607	120	616	0
						871	596	0	275	0
Ave hi load	303	304	303	303	1213	675	150	180	163	182
Avg lo load	635	628	630	637	2529	1812	483	415	470	445



Job queue on the CE



CE: osg-gw-5.t2.ucsd.edu – OSG 1.0.0 – Opteron 275 CPU

client: Condor 7.3.1, in Italy (190ms RTT), single CPU

loadtest_condor.sh -type grid gt2 osg-gw-5.t2.ucsd.edu:/jobmanager-condor -req "(condor_submit=(+SleepSlot 'TRUE'))" -end fixed 1800 -jobs 5000 -cluster 100 -in infile 100 -out outfile 123 [-MaxIdle 1000]

Performed in September 2009 by Igor Sfiligoi, UCSD