



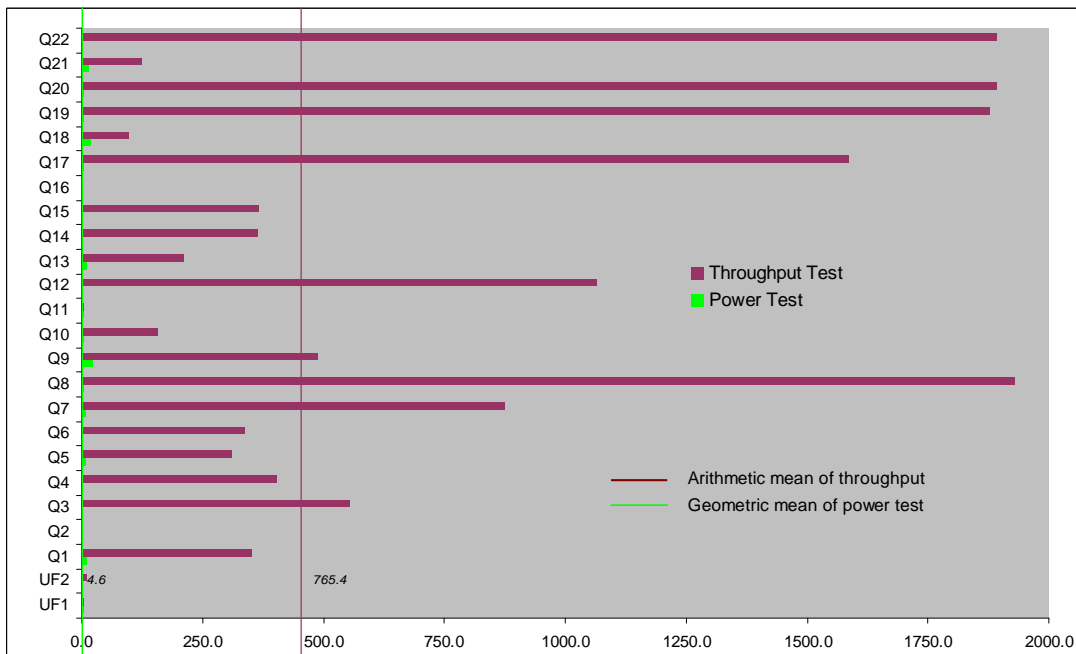
**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

Total System Cost	Composite Query per Hour Metric	Price / Performance
<b>\$6,320,001USD</b>	<b>1,166,976.6</b> QphH@1000GB	<b>\$5.42USD</b> \$/ QphH@1000GB

Database Size	Database Manager	Operating System	Other Software	Availability Date
<b>1000GB</b>	<b>Oracle Database 11g Release 2 Enterprise Edition with Oracle Real Application Clusters, Partitioning and Advanced Compression</b>	<b>Oracle Enterprise Linux</b>		<b>December 1, 2009</b> <b>Hardware Available Now</b>



Database Load Time = 2:22:57	Load Included Backup: N	Total Data Storage / Database Size = 38.79
RAID (Base tables only): n.a	RAID (Base tables and auxiliary data structures): n.a	RAID (All): Y

Database Server Components	System Total	Per Node
HP BladeSystem c7000 Enclosure:	4	n.a.
HP ProLiant BL460c Server:	64	n.a.
Quad-Core Intel Xeon X5450 Processor (12M Cache, 3GHz)		
(Processor/Cores/Threads):	128/512/512	2/8/8
Memory:	2080GB	32GB x 63 Nodes 64GB x 1 Node
HP 146GB 10K SAS 2.5 Hot Plug HDD (OS, Flat files):	128	2
Total formatted storage internal to Database Servers:	18688GB	292GB
HP 4X DDR IB DP Mezzanine HCA for HP BladeSystem c-Class:	128	2
HP GbE2c Ethernet Blade Switch for c-Class BladeSystem:	8	n.a.
HP 4X DDR IB Switch Module for HP BladeSystem c-Class	12	n.a.
<b>Storage Components</b>		
HP Voltaire IB 4X DDR 24-port Internally Managed Switch:	2	n.a.
HP Oracle Exadata Storage Server SAS:	6	3351.8GB per HP Oracle Exadata Storage Server SAS
Total configured Storage on HP Oracle Exadata Storage Server SAS:	20110.5GB	
Total Storage:	38798.5GB	



**HP BladeSystem c-Class RAC  
with  
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Servers**

TPC-H Rev. 2.8.0

Report Date:

3-Jun-09

Description	Part Number	Brand	Pricing	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
<b>Server</b>								
HP ProLiant BL460c Configure-to-order Blade	447707-B21		1	1402	64	89728		
Intel® Xeon® processor X5450 (3.00 GHz, 1333 FSB, 120W) FIO Option Kit	463056-L21		1	1249	128	159872		
HP 64GB Fully Buffered DIMM PC2-5300 8x8GB DDR2 Memory Kit	495604-B21		1	7199	1	7199		
HP 8GB Fully Buffered DIMM PC2-5300 2x4GB DDR2 Memory Kit	397415-B21		1	339	252	85428		
HP 4X DDR InfiniBand Dual Port Mezzanine HCA for c-Class BladeSystem	448262-B21		1	995	128	127360		
HP 146GB 10K rpm Hot Plug SAS 2.5 Dual Port Hard Drive	418367-B21		1	319	128	40832		
HP 3y 4h 24x7 BL4xxx Svr Bld HW Support	UK066E			440	64	28160	28,160	
HP BladeSystem c7000 Enclosure, SPwith 6 Power Supplies, 10 Fans with 16 ICE Licenses	507015-B21		1	12873	4	51492		
HP c7000 Redundant Onboard Administrator Option	412142-B21		1	799	4	3196		
HP GbE2c Ethernet Blade Switch for HP c-Class BladeSystem	410917-B21		1	1399	4	5596	5596	
HP 3y 4h 24x7 c7000 Enclosure HW Supp	UE479E			927	4	3708		
HP 4X DDR IB Switch Module for HP c-Class BladeSystem	410398-B21		1	5999	12	71988		
HP 3y 4h 24x7 ProLiant Infiniband HW Supp	UA247E		1	1387	12	16644	16644	
10642 G2 (42U) Rack Cabinet	AF001A		1	1249	1	1249		
S10614 (14U) Rack Cabinet - Shock Pallet	292302-B22		1	999	1	999		
HP KVM CAT5 0x2x16 Server Console Switch	336045-B21		1	1099	1	1099		
HP TFT7600 Rackmount Keyboard and Monitor	AG052A		1	1869	1	1869		
				<b>Server Subtotal</b>		<b>\$696,419</b>	<b>\$50,400</b>	
<b>Storage</b>								
HP Voltaire IB 4X DDR 24-port Internally Managed Switch	409367-B21		1	13329	2	26658		
HP 3y 4h 24x7 4hr HW Support for Infiniband managed switch	HA110A3		1	2323	2		4646	
HP 4X DDR IB Copper Cable - 1 Meter	410123-B22		1	129	20	2580		
HP 4X DDR IB Copper Cable - 2 Meter	410123-B23		1	149	22	3278		
HP Exadata Storage Server Hardware SAS		Oracle	2	24000	6	144000	Inc	
Exadata Storage Server Software for 3 years	run-time	Oracle	2	5000	72	360,000		
Premium Support for 3 years	run-time	Oracle	2	158400	3		475,200	
				<b>Storage Subtotal</b>		<b>\$536,516</b>	<b>\$479,846</b>	
<b>Software</b>								
Oracle Database 11g Release 2 Enterprise Edition, Named User Plus for 3 years	run-time	Oracle	2	11875	256 **	3,040,000		
Real Application Clusters, Named User Plus for 3 years	run-time	Oracle	2	5750	256 **	1,472,000		
Partitioning, Named User Plus for 3 years	run-time	Oracle	2	2875	256 **	736,000		
Advanced Compression, Named User Plus for 3 years	run-time	Oracle	2	2875	256 **	736,000		
Database Server Support Package for 3 years	run-time	Oracle	2	6900	64	441,600		
Unbreakable Linux Support: Enterprise Linux Basic Limited for 3 years	run-time	Oracle	2	1497	64		95,808	
				<b>Software Subtotal</b>		<b>\$6,425,600</b>	<b>\$95,808</b>	
HP Large Purchase and Net30 discount			1			(125,437)		
Oracle Mandatory E-Business Discount on Licenses and Support		Oracle	2			(1,839,152)		
				<b>Total</b>		<b>\$5,693,946</b>	<b>\$626,054</b>	
Pricing: 1- HP Direct at 16% discount 800-203-7648. Pricing: 2- Oracle pricing contact: MaryBeth Pierantoni, mary.beth.pierantoni@oracle.com, 916-315-5081. (* * 256 = 0.50 * 512) For the purposes of counting the number of processors which require licensing for Intel multicorechips, "n" cores shall be determined by multiplying the total number of cores by a core processor licensing factor of .50. Oracle Price quote is in Appendix G.						<b>3-Year Cost of Ownership in USD:</b>		<b>\$6,320,001 USD</b>
						<b>QphH Rating:</b>	<b>1,166,976.6</b>	
All discounts are based on US list prices and for similar quantities and configurations. Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing section of the TPC benchmark specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.						<b>USD\$ / QphH@1000GB:</b>	<b>\$5.42 USD</b>	



**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

**Report Date: June 3, 2009**

**Numerical Quantities**

**Measurement Results:**

Database Scale Factor	= 1000
Total Data Storage / Database Size	= 38.79
Start of Database Load (Part 1)	= 5/17/2009 17:20:29
End of Database Load (Part 1)	= 5/17/2009 19:08:10
Start of Database Load (Part 2)	= 5/17/2009 19:47:22
End of Database Load (Part 2)	= 5/17/2009 20:22:38
Database Load Time	= 2:22:57
Query Streams for Throughput Test	= 498
TPC-H Power	= 782,608.7
TPC-H Throughput	= 1,740,121.8
TPC-H Composite Query-per-Hour Metric (QphH@1000GB)	= 1,166,976.6
Total System Price Over 3 Years	= \$6,320,001USD
TPC-H Price/ Performance Metric (\$/QphH@1000GB)	= \$5.42USD

**Measurement Intervals:**

Measurement Interval in Throughput Test (Ts)	= 22,666.0 seconds
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**Duration of Stream Execution:**

Power Run	Seed	Query Start Time		Query End Time		Duration	RF1 Start Time			Duration	RF2 Start Time			Duration
		5/17/09	23:03:13	5/17/09	23:05:39	0:02:26	5/17/09	23:03:08	23:03:13	0:00:05	5/17/09	23:05:39	23:05:42	0:00:03
	517202238	5/17/09	23:03:13	5/17/09	23:05:39	0:02:26	5/17/09	23:03:08	23:03:13	0:00:05	5/17/09	23:05:39	23:05:42	0:00:03



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**Duration of Stream Execution**

Throughput Stream	Seed	Query Start Time	Query End Time	Duration	RF1			RF2		
					Start	End	Duration	Start	End	Duration
1	517202239	5/17/2009 23:05:46	5/18/2009 4:01:35	4:55:49	5/18/2009 4:13:26	4:13:30	0:00:04	5/18/2009 4:13:30	4:13:33	0:00:03
2	517202240	5/17/2009 23:05:46	5/18/2009 3:39:17	4:33:31	5/18/2009 4:13:33	4:13:37	0:00:04	5/18/2009 4:13:37	4:13:40	0:00:03
3	517202241	5/17/2009 23:05:46	5/18/2009 4:02:01	4:56:15	5/18/2009 4:13:40	4:13:43	0:00:03	5/18/2009 4:13:43	4:13:46	0:00:03
4	517202242	5/17/2009 23:05:46	5/18/2009 4:02:09	4:56:23	5/18/2009 4:13:46	4:13:51	0:00:05	5/18/2009 4:13:51	4:13:53	0:00:02
5	517202243	5/17/2009 23:05:46	5/18/2009 3:38:51	4:33:05	5/18/2009 4:13:53	4:13:56	0:00:03	5/18/2009 4:13:56	4:14:00	0:00:04
6	517202244	5/17/2009 23:05:46	5/18/2009 4:11:15	5:05:29	5/18/2009 4:14:00	4:14:03	0:00:03	5/18/2009 4:14:03	4:14:06	0:00:03
7	517202245	5/17/2009 23:05:46	5/18/2009 3:38:54	4:33:08	5/18/2009 4:14:06	4:14:10	0:00:04	5/18/2009 4:14:10	4:14:12	0:00:02
8	517202246	5/17/2009 23:05:46	5/18/2009 4:01:20	4:55:34	5/18/2009 4:14:12	4:14:16	0:00:04	5/18/2009 4:14:16	4:14:19	0:00:03
9	517202247	5/17/2009 23:05:46	5/18/2009 3:39:33	4:33:47	5/18/2009 4:14:19	4:14:24	0:00:05	5/18/2009 4:14:24	4:14:26	0:00:02
10	517202248	5/17/2009 23:05:46	5/18/2009 4:11:15	5:05:29	5/18/2009 4:14:26	4:14:30	0:00:04	5/18/2009 4:14:30	4:14:33	0:00:03
11	517202249	5/17/2009 23:05:46	5/18/2009 4:11:37	5:05:51	5/18/2009 4:14:33	4:14:38	0:00:05	5/18/2009 4:14:38	4:14:41	0:00:03
12	517202250	5/17/2009 23:05:46	5/18/2009 3:10:23	4:04:37	5/18/2009 4:14:41	4:14:45	0:00:04	5/18/2009 4:14:45	4:14:47	0:00:02
13	517202251	5/17/2009 23:05:46	5/18/2009 4:11:30	5:05:44	5/18/2009 4:14:47	4:14:51	0:00:04	5/18/2009 4:14:51	4:14:55	0:00:04
14	517202252	5/17/2009 23:05:46	5/18/2009 4:11:17	5:05:31	5/18/2009 4:14:55	4:14:59	0:00:04	5/18/2009 4:14:59	4:15:02	0:00:03
15	517202253	5/17/2009 23:05:46	5/18/2009 3:39:23	4:33:37	5/18/2009 4:15:02	4:15:05	0:00:03	5/18/2009 4:15:05	4:15:08	0:00:03
16	517202254	5/17/2009 23:05:46	5/18/2009 3:40:02	4:34:16	5/18/2009 4:15:08	4:15:12	0:00:04	5/18/2009 4:15:12	4:15:15	0:00:03
17	517202255	5/17/2009 23:05:46	5/18/2009 4:02:14	4:56:28	5/18/2009 4:15:15	4:15:19	0:00:04	5/18/2009 4:15:19	4:15:22	0:00:03
18	517202256	5/17/2009 23:05:46	5/18/2009 4:11:15	5:05:29	5/18/2009 4:15:22	4:15:26	0:00:04	5/18/2009 4:15:26	4:15:29	0:00:03
19	517202257	5/17/2009 23:05:46	5/18/2009 3:39:24	4:33:38	5/18/2009 4:15:29	4:15:33	0:00:04	5/18/2009 4:15:33	4:15:36	0:00:03
20	517202258	5/17/2009 23:05:46	5/18/2009 3:39:52	4:34:06	5/18/2009 4:15:36	4:15:41	0:00:05	5/18/2009 4:15:41	4:15:44	0:00:03
21	517202259	5/17/2009 23:05:46	5/18/2009 3:11:42	4:05:56	5/18/2009 4:15:44	4:15:48	0:00:04	5/18/2009 4:15:48	4:15:50	0:00:02
22	517202260	5/17/2009 23:05:46	5/18/2009 3:39:41	4:33:55	5/18/2009 4:15:50	4:15:55	0:00:05	5/18/2009 4:15:55	4:15:57	0:00:02
23	517202261	5/17/2009 23:05:47	5/18/2009 4:01:35	4:55:48	5/18/2009 4:15:57	4:16:01	0:00:04	5/18/2009 4:16:01	4:16:05	0:00:04
24	517202262	5/17/2009 23:05:47	5/18/2009 4:02:12	4:56:25	5/18/2009 4:16:05	4:16:09	0:00:04	5/18/2009 4:16:09	4:16:12	0:00:03
25	517202263	5/17/2009 23:05:47	5/18/2009 3:39:43	4:33:56	5/18/2009 4:16:12	4:16:15	0:00:03	5/18/2009 4:16:15	4:16:18	0:00:03
26	517202264	5/17/2009 23:05:47	5/18/2009 4:02:00	4:56:13	5/18/2009 4:16:18	4:16:23	0:00:05	5/18/2009 4:16:23	4:16:26	0:00:03
27	517202265	5/17/2009 23:05:47	5/18/2009 3:10:34	4:04:47	5/18/2009 4:16:26	4:16:30	0:00:04	5/18/2009 4:16:30	4:16:33	0:00:03
28	517202266	5/17/2009 23:05:47	5/18/2009 3:40:06	4:34:19	5/18/2009 4:16:33	4:16:39	0:00:06	5/18/2009 4:16:39	4:16:41	0:00:02
29	517202267	5/17/2009 23:05:47	5/18/2009 4:02:53	4:57:06	5/18/2009 4:16:41	4:16:45	0:00:04	5/18/2009 4:16:45	4:16:48	0:00:03
30	517202268	5/17/2009 23:05:47	5/18/2009 3:40:54	4:35:07	5/18/2009 4:16:48	4:16:53	0:00:05	5/18/2009 4:16:53	4:16:56	0:00:03
31	517202269	5/17/2009 23:05:47	5/18/2009 4:02:32	4:56:45	5/18/2009 4:16:56	4:17:01	0:00:05	5/18/2009 4:17:01	4:17:03	0:00:02
32	517202270	5/17/2009 23:05:47	5/18/2009 3:11:03	4:05:16	5/18/2009 4:17:03	4:17:08	0:00:05	5/18/2009 4:17:08	4:17:11	0:00:03
33	517202271	5/17/2009 23:05:47	5/18/2009 3:40:41	4:34:54	5/18/2009 4:17:11	4:17:15	0:00:04	5/18/2009 4:17:15	4:17:18	0:00:03
34	517202272	5/17/2009 23:05:47	5/18/2009 4:11:29	5:05:42	5/18/2009 4:17:18	4:17:23	0:00:05	5/18/2009 4:17:23	4:17:26	0:00:03
35	517202273	5/17/2009 23:05:47	5/18/2009 2:39:27	3:33:40	5/18/2009 4:17:26	4:17:30	0:00:04	5/18/2009 4:17:30	4:17:33	0:00:03
36	517202274	5/17/2009 23:05:47	5/18/2009 4:02:32	4:56:45	5/18/2009 4:17:33	4:17:39	0:00:06	5/18/2009 4:17:39	4:17:42	0:00:03
37	517202275	5/17/2009 23:05:59	5/18/2009 3:44:21	4:38:22	5/18/2009 4:17:42	4:17:47	0:00:05	5/18/2009 4:17:47	4:17:50	0:00:03
38	517202276	5/17/2009 23:05:47	5/18/2009 3:40:55	4:35:08	5/18/2009 4:17:50	4:17:56	0:00:06	5/18/2009 4:17:56	4:17:59	0:00:03
39	517202277	5/17/2009 23:05:47	5/18/2009 3:40:54	4:35:07	5/18/2009 4:17:59	4:18:04	0:00:05	5/18/2009 4:18:04	4:18:07	0:00:03
40	517202278	5/17/2009 23:05:47	5/18/2009 3:40:25	4:34:38	5/18/2009 4:18:07	4:18:14	0:00:07	5/18/2009 4:18:14	4:18:17	0:00:03
41	517202279	5/17/2009 23:05:47	5/18/2009 2:40:12	3:34:25	5/18/2009 4:18:17	4:18:22	0:00:05	5/18/2009 4:18:22	4:18:24	0:00:02
42	517202280	5/17/2009 23:05:47	5/18/2009 3:40:25	4:34:38	5/18/2009 4:18:24	4:18:29	0:00:05	5/18/2009 4:18:29	4:18:32	0:00:03
43	517202281	5/17/2009 23:05:49	5/18/2009 3:12:36	4:06:47	5/18/2009 4:18:32	4:18:37	0:00:05	5/18/2009 4:18:37	4:18:40	0:00:03
44	517202282	5/17/2009 23:05:57	5/18/2009 4:04:22	4:58:25	5/18/2009 4:18:40	4:18:45	0:00:05	5/18/2009 4:18:45	4:18:48	0:00:03
45	517202283	5/17/2009 23:06:00	5/18/2009 3:16:34	4:10:34	5/18/2009 4:18:48	4:18:52	0:00:04	5/18/2009 4:18:52	4:18:55	0:00:03
46	517202284	5/17/2009 23:05:48	5/18/2009 4:02:53	4:57:05	5/18/2009 4:18:55	4:19:00	0:00:05	5/18/2009 4:19:00	4:19:03	0:00:03
47	517202285	5/17/2009 23:05:47	5/18/2009 4:02:32	4:56:45	5/18/2009 4:19:03	4:19:07	0:00:04	5/18/2009 4:19:07	4:19:10	0:00:03
48	517202286	5/17/2009 23:05:47	5/18/2009 2:40:12	3:34:25	5/18/2009 4:19:10	4:19:15	0:00:05	5/18/2009 4:19:15	4:19:18	0:00:03
49	517202287	5/17/2009 23:06:00	5/18/2009 3:17:30	4:11:30	5/18/2009 4:19:18	4:19:22	0:00:04	5/18/2009 4:19:22	4:19:25	0:00:03
50	517202288	5/17/2009 23:05:49	5/18/2009 3:12:54	4:07:05	5/18/2009 4:19:25	4:19:30	0:00:05	5/18/2009 4:19:30	4:19:33	0:00:03



**HP BladeSystem c-Class 128P RAC  
with  
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TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

**Duration of Stream Execution**

51	517202289	5/17/2009	23:05:49	5/18/2009	4:03:25	4:57:36	5/18/2009	4:19:33	4:19:38	0:00:05	5/18/2009	4:19:38	4:19:41	0:00:03
52	517202290	5/17/2009	23:05:57	5/18/2009	2:43:10	3:37:13	5/18/2009	4:19:41	4:19:46	0:00:05	5/18/2009	4:19:46	4:19:49	0:00:03
53	517202291	5/17/2009	23:05:47	5/18/2009	3:41:10	4:35:23	5/18/2009	4:19:49	4:19:54	0:00:05	5/18/2009	4:19:54	4:19:57	0:00:03
54	517202292	5/17/2009	23:05:47	5/18/2009	3:40:55	4:35:08	5/18/2009	4:19:57	4:20:02	0:00:05	5/18/2009	4:20:02	4:20:05	0:00:03
55	517202293	5/17/2009	23:05:49	5/18/2009	3:41:42	4:35:53	5/18/2009	4:20:05	4:20:10	0:00:05	5/18/2009	4:20:10	4:20:14	0:00:04
56	517202294	5/17/2009	23:05:49	5/18/2009	4:11:37	5:05:48	5/18/2009	4:20:14	4:20:19	0:00:05	5/18/2009	4:20:19	4:20:22	0:00:03
57	517202295	5/17/2009	23:05:49	5/18/2009	3:42:49	4:37:00	5/18/2009	4:20:22	4:20:27	0:00:05	5/18/2009	4:20:27	4:20:30	0:00:03
58	517202296	5/17/2009	23:05:57	5/18/2009	4:05:53	4:59:56	5/18/2009	4:20:30	4:20:34	0:00:04	5/18/2009	4:20:34	4:20:37	0:00:03
59	517202297	5/17/2009	23:05:49	5/18/2009	4:11:38	5:05:49	5/18/2009	4:20:37	4:20:42	0:00:05	5/18/2009	4:20:42	4:20:45	0:00:03
60	517202298	5/17/2009	23:05:48	5/18/2009	3:42:16	4:36:28	5/18/2009	4:20:45	4:20:50	0:00:05	5/18/2009	4:20:50	4:20:53	0:00:03
61	517202299	5/17/2009	23:05:57	5/18/2009	3:13:03	4:07:06	5/18/2009	4:20:53	4:20:59	0:00:06	5/18/2009	4:20:59	4:21:01	0:00:02
62	51720300	5/17/2009	23:06:00	5/18/2009	3:23:00	4:17:00	5/18/2009	4:21:01	4:21:06	0:00:05	5/18/2009	4:21:06	4:21:09	0:00:03
63	51720301	5/17/2009	23:05:49	5/18/2009	2:41:29	3:35:40	5/18/2009	4:21:09	4:21:15	0:00:06	5/18/2009	4:21:15	4:21:18	0:00:03
64	51720302	5/17/2009	23:05:57	5/18/2009	4:04:08	4:58:11	5/18/2009	4:21:18	4:21:22	0:00:04	5/18/2009	4:21:22	4:21:26	0:00:04
65	51720303	5/17/2009	23:06:01	5/18/2009	3:49:42	4:43:41	5/18/2009	4:21:26	4:21:31	0:00:05	5/18/2009	4:21:31	4:21:34	0:00:03
66	51720304	5/17/2009	23:05:57	5/18/2009	3:42:50	4:36:53	5/18/2009	4:21:34	4:21:39	0:00:05	5/18/2009	4:21:39	4:21:41	0:00:02
67	51720305	5/17/2009	23:05:49	5/18/2009	3:12:09	4:06:20	5/18/2009	4:21:41	4:21:46	0:00:05	5/18/2009	4:21:46	4:21:49	0:00:03
68	51720306	5/17/2009	23:05:49	5/18/2009	4:03:06	4:57:17	5/18/2009	4:21:49	4:21:53	0:00:04	5/18/2009	4:21:53	4:21:56	0:00:03
69	51720307	5/17/2009	23:06:00	5/18/2009	3:47:05	4:41:05	5/18/2009	4:21:56	4:22:02	0:00:06	5/18/2009	4:22:02	4:22:04	0:00:02
70	51720308	5/17/2009	23:06:00	5/18/2009	4:06:15	5:00:15	5/18/2009	4:22:04	4:22:09	0:00:05	5/18/2009	4:22:09	4:22:12	0:00:03
71	51720309	5/17/2009	23:05:59	5/18/2009	3:22:26	4:16:27	5/18/2009	4:22:12	4:22:18	0:00:06	5/18/2009	4:22:18	4:22:21	0:00:03
72	51720310	5/17/2009	23:06:00	5/18/2009	3:45:26	4:39:26	5/18/2009	4:22:21	4:22:26	0:00:05	5/18/2009	4:22:26	4:22:29	0:00:03
73	51720311	5/17/2009	23:06:01	5/18/2009	3:22:58	4:16:57	5/18/2009	4:22:29	4:22:35	0:00:06	5/18/2009	4:22:35	4:22:38	0:00:03
74	51720312	5/17/2009	23:06:00	5/18/2009	3:47:44	4:41:44	5/18/2009	4:22:38	4:22:43	0:00:05	5/18/2009	4:22:43	4:22:45	0:00:02
75	51720313	5/17/2009	23:06:00	5/18/2009	4:12:21	5:06:21	5/18/2009	4:22:45	4:22:51	0:00:06	5/18/2009	4:22:51	4:22:54	0:00:03
76	51720314	5/17/2009	23:05:59	5/18/2009	2:44:20	3:38:21	5/18/2009	4:22:54	4:22:58	0:00:04	5/18/2009	4:22:58	4:23:01	0:00:03
77	51720315	5/17/2009	23:06:00	5/18/2009	4:05:29	4:59:29	5/18/2009	4:23:01	4:23:07	0:00:06	5/18/2009	4:23:07	4:23:09	0:00:02
78	51720316	5/17/2009	23:06:00	5/18/2009	3:45:26	4:39:26	5/18/2009	4:23:09	4:23:13	0:00:04	5/18/2009	4:23:13	4:23:16	0:00:03
79	51720317	5/17/2009	23:06:01	5/18/2009	4:09:15	5:03:14	5/18/2009	4:23:16	4:23:22	0:00:06	5/18/2009	4:23:22	4:23:24	0:00:02
80	51720318	5/17/2009	23:06:01	5/18/2009	3:52:12	4:46:11	5/18/2009	4:23:24	4:23:29	0:00:05	5/18/2009	4:23:29	4:23:32	0:00:03
81	51720319	5/17/2009	23:05:57	5/18/2009	4:04:07	4:58:10	5/18/2009	4:23:32	4:23:38	0:00:06	5/18/2009	4:23:38	4:23:41	0:00:03
82	51720320	5/17/2009	23:06:01	5/18/2009	3:48:48	4:42:47	5/18/2009	4:23:41	4:23:45	0:00:04	5/18/2009	4:23:45	4:23:47	0:00:02
83	51720321	5/17/2009	23:06:00	5/18/2009	4:05:13	4:59:13	5/18/2009	4:23:47	4:23:53	0:00:06	5/18/2009	4:23:53	4:23:56	0:00:03
84	51720322	5/17/2009	23:06:01	5/18/2009	3:50:44	4:44:43	5/18/2009	4:23:56	4:24:01	0:00:05	5/18/2009	4:24:01	4:24:03	0:00:02
85	51720323	5/17/2009	23:05:58	5/18/2009	3:45:59	4:40:01	5/18/2009	4:24:03	4:24:10	0:00:07	5/18/2009	4:24:10	4:24:13	0:00:03
86	51720324	5/17/2009	23:05:57	5/18/2009	3:42:16	4:36:19	5/18/2009	4:24:13	4:24:17	0:00:04	5/18/2009	4:24:17	4:24:20	0:00:03
87	51720325	5/17/2009	23:05:57	5/18/2009	4:03:53	4:57:56	5/18/2009	4:24:20	4:24:25	0:00:05	5/18/2009	4:24:25	4:24:29	0:00:04
88	51720326	5/17/2009	23:06:00	5/18/2009	3:47:28	4:41:28	5/18/2009	4:24:29	4:24:34	0:00:05	5/18/2009	4:24:34	4:24:36	0:00:02
89	51720327	5/17/2009	23:05:57	5/18/2009	3:13:20	4:07:23	5/18/2009	4:24:36	4:24:43	0:00:07	5/18/2009	4:24:43	4:24:46	0:00:03
90	51720328	5/17/2009	23:05:59	5/18/2009	3:44:58	4:38:59	5/18/2009	4:24:46	4:24:51	0:00:05	5/18/2009	4:24:51	4:24:54	0:00:03
91	51720329	5/17/2009	23:05:57	5/18/2009	2:46:57	3:41:00	5/18/2009	4:24:54	4:24:59	0:00:05	5/18/2009	4:24:59	4:25:02	0:00:03
92	51720330	5/17/2009	23:06:01	5/18/2009	4:07:36	5:01:35	5/18/2009	4:25:02	4:25:07	0:00:05	5/18/2009	4:25:07	4:25:11	0:00:04
93	51720331	5/17/2009	23:06:00	5/18/2009	3:19:13	4:13:13	5/18/2009	4:25:11	4:25:16	0:00:05	5/18/2009	4:25:16	4:25:19	0:00:03
94	51720332	5/17/2009	23:05:59	5/18/2009	3:47:44	4:41:45	5/18/2009	4:25:19	4:25:24	0:00:05	5/18/2009	4:25:24	4:25:27	0:00:03
95	51720333	5/17/2009	23:06:00	5/18/2009	4:04:40	4:58:40	5/18/2009	4:25:27	4:25:32	0:00:05	5/18/2009	4:25:32	4:25:34	0:00:02
96	51720334	5/17/2009	23:06:00	5/18/2009	4:04:55	4:58:55	5/18/2009	4:25:34	4:25:39	0:00:05	5/18/2009	4:25:39	4:25:42	0:00:03
97	51720335	5/17/2009	23:05:58	5/18/2009	4:04:21	4:58:23	5/18/2009	4:25:42	4:25:48	0:00:06	5/18/2009	4:25:48	4:25:50	0:00:02
98	51720336	5/17/2009	23:05:57	5/18/2009	2:44:17	3:38:20	5/18/2009	4:25:50	4:25:55	0:00:05	5/18/2009	4:25:55	4:25:58	0:00:03
99	51720337	5/17/2009	23:05:57	5/18/2009	4:08:24	5:02:27	5/18/2009	4:25:58	4:26:03	0:00:05	5/18/2009	4:26:03	4:26:07	0:00:04
100	51720338	5/17/2009	23:06:00	5/18/2009	3:44:56	4:38:56	5/18/2009	4:26:07	4:26:11	0:00:04	5/18/2009	4:26:11	4:26:14	0:00:03



**HP BladeSystem c-Class 128P RAC  
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**June 3, 2009**

**Duration of Stream Execution**

101	517202339	5/17/2009	23:05:57	5/18/2009	3:43:51	4:37:54	5/18/2009	4:26:14	4:26:20	0:00:06	5/18/2009	4:26:20	4:26:22	0:00:02
102	517202340	5/17/2009	23:06:00	5/18/2009	4:05:14	4:59:14	5/18/2009	4:26:22	4:26:27	0:00:05	5/18/2009	4:26:27	4:26:30	0:00:03
103	517202341	5/17/2009	23:06:02	5/18/2009	3:23:31	4:17:29	5/18/2009	4:26:30	4:26:35	0:00:05	5/18/2009	4:26:35	4:26:38	0:00:03
104	517202342	5/17/2009	23:05:59	5/18/2009	3:44:04	4:38:05	5/18/2009	4:26:38	4:26:43	0:00:05	5/18/2009	4:26:43	4:26:45	0:00:02
105	517202343	5/17/2009	23:06:01	5/18/2009	4:12:34	5:06:33	5/18/2009	4:26:45	4:26:51	0:00:06	5/18/2009	4:26:51	4:26:54	0:00:03
106	517202344	5/17/2009	23:06:02	5/18/2009	4:12:50	5:06:48	5/18/2009	4:26:54	4:26:59	0:00:05	5/18/2009	4:26:59	4:27:03	0:00:04
107	517202345	5/17/2009	23:06:00	5/18/2009	3:15:26	4:09:26	5/18/2009	4:27:03	4:27:08	0:00:05	5/18/2009	4:27:08	4:27:11	0:00:03
108	517202346	5/17/2009	23:06:02	5/18/2009	4:06:46	5:00:44	5/18/2009	4:27:11	4:27:16	0:00:05	5/18/2009	4:27:16	4:27:19	0:00:03
109	517202347	5/17/2009	23:06:02	5/18/2009	3:49:04	4:43:02	5/18/2009	4:27:19	4:27:23	0:00:04	5/18/2009	4:27:23	4:27:26	0:00:03
110	517202348	5/17/2009	23:06:00	5/18/2009	3:45:04	4:39:04	5/18/2009	4:27:26	4:27:30	0:00:04	5/18/2009	4:27:30	4:27:33	0:00:03
111	517202349	5/17/2009	23:06:01	5/18/2009	3:24:15	4:18:14	5/18/2009	4:27:33	4:27:37	0:00:04	5/18/2009	4:27:37	4:27:40	0:00:03
112	517202350	5/17/2009	23:05:58	5/18/2009	3:49:56	4:43:58	5/18/2009	4:27:40	4:27:44	0:00:04	5/18/2009	4:27:44	4:27:47	0:00:03
113	517202351	5/17/2009	23:06:00	5/18/2009	3:44:34	4:38:34	5/18/2009	4:27:47	4:27:51	0:00:04	5/18/2009	4:27:51	4:27:55	0:00:04
114	517202352	5/17/2009	23:05:58	5/18/2009	3:44:04	4:38:06	5/18/2009	4:27:55	4:27:59	0:00:04	5/18/2009	4:27:59	4:28:02	0:00:03
115	517202353	5/17/2009	23:06:02	5/18/2009	3:51:12	4:45:10	5/18/2009	4:28:02	4:28:06	0:00:04	5/18/2009	4:28:06	4:28:09	0:00:03
116	517202354	5/17/2009	23:06:02	5/18/2009	4:12:35	5:06:33	5/18/2009	4:28:09	4:28:13	0:00:04	5/18/2009	4:28:13	4:28:16	0:00:03
117	517202355	5/17/2009	23:05:58	5/18/2009	2:43:38	3:37:40	5/18/2009	4:28:16	4:28:21	0:00:05	5/18/2009	4:28:21	4:28:24	0:00:03
118	517202356	5/17/2009	23:06:00	5/18/2009	3:45:10	4:39:10	5/18/2009	4:28:24	4:28:29	0:00:05	5/18/2009	4:28:29	4:28:31	0:00:02
119	517202357	5/17/2009	23:05:59	5/18/2009	3:44:41	4:38:42	5/18/2009	4:28:31	4:28:36	0:00:05	5/18/2009	4:28:36	4:28:39	0:00:03
120	517202358	5/17/2009	23:05:58	5/18/2009	4:12:23	5:06:25	5/18/2009	4:28:39	4:28:44	0:00:05	5/18/2009	4:28:44	4:28:46	0:00:02
121	517202359	5/17/2009	23:06:00	5/18/2009	3:49:20	4:43:20	5/18/2009	4:28:46	4:28:51	0:00:05	5/18/2009	4:28:51	4:28:54	0:00:03
122	517202360	5/17/2009	23:06:00	5/18/2009	4:05:12	4:59:12	5/18/2009	4:28:54	4:29:00	0:00:06	5/18/2009	4:29:00	4:29:02	0:00:02
123	517202361	5/17/2009	23:05:59	5/18/2009	3:15:00	4:09:01	5/18/2009	4:29:02	4:29:07	0:00:05	5/18/2009	4:29:07	4:29:10	0:00:03
124	517202362	5/17/2009	23:06:00	5/18/2009	4:05:43	4:59:43	5/18/2009	4:29:10	4:29:15	0:00:05	5/18/2009	4:29:15	4:29:18	0:00:03
125	517202363	5/17/2009	23:06:02	5/18/2009	3:51:16	4:45:14	5/18/2009	4:29:18	4:29:22	0:00:04	5/18/2009	4:29:22	4:29:24	0:00:02
126	517202364	5/17/2009	23:06:00	5/18/2009	3:48:28	4:42:28	5/18/2009	4:29:24	4:29:29	0:00:05	5/18/2009	4:29:29	4:29:32	0:00:03
127	517202365	5/17/2009	23:06:00	5/18/2009	4:12:11	5:06:11	5/18/2009	4:29:32	4:29:37	0:00:05	5/18/2009	4:29:37	4:29:39	0:00:02
128	517202366	5/17/2009	23:06:02	5/18/2009	4:06:46	5:00:44	5/18/2009	4:29:39	4:29:44	0:00:05	5/18/2009	4:29:44	4:29:47	0:00:03
129	517202367	5/17/2009	23:05:59	5/18/2009	3:47:11	4:41:12	5/18/2009	4:29:47	4:29:52	0:00:05	5/18/2009	4:29:52	4:29:56	0:00:04
130	517202368	5/17/2009	23:05:58	5/18/2009	3:08:16	4:02:18	5/18/2009	4:29:56	4:30:01	0:00:05	5/18/2009	4:30:01	4:30:03	0:00:02
131	517202369	5/17/2009	23:05:59	5/18/2009	3:16:29	4:10:30	5/18/2009	4:30:03	4:30:08	0:00:05	5/18/2009	4:30:08	4:30:11	0:00:03
132	517202370	5/17/2009	23:06:00	5/18/2009	3:20:17	4:14:17	5/18/2009	4:30:11	4:30:15	0:00:04	5/18/2009	4:30:15	4:30:18	0:00:03
133	517202371	5/17/2009	23:06:00	5/18/2009	4:05:54	4:59:54	5/18/2009	4:30:18	4:30:23	0:00:05	5/18/2009	4:30:23	4:30:25	0:00:02
134	517202372	5/17/2009	23:05:58	5/18/2009	3:43:05	4:37:07	5/18/2009	4:30:26	4:30:31	0:00:05	5/18/2009	4:30:31	4:30:33	0:00:02
135	517202373	5/17/2009	23:05:59	5/18/2009	3:46:36	4:40:37	5/18/2009	4:30:33	4:30:38	0:00:05	5/18/2009	4:30:38	4:30:41	0:00:03
136	517202374	5/17/2009	23:06:00	5/18/2009	3:44:20	4:38:20	5/18/2009	4:30:41	4:30:45	0:00:04	5/18/2009	4:30:45	4:30:48	0:00:03
137	517202375	5/17/2009	23:06:02	5/18/2009	3:49:18	4:43:16	5/18/2009	4:30:48	4:30:53	0:00:05	5/18/2009	4:30:53	4:30:55	0:00:02
138	517202376	5/17/2009	23:06:00	5/18/2009	3:44:33	4:38:33	5/18/2009	4:30:55	4:31:00	0:00:05	5/18/2009	4:31:00	4:31:03	0:00:03
139	517202377	5/17/2009	23:06:00	5/18/2009	3:47:27	4:41:27	5/18/2009	4:31:03	4:31:08	0:00:05	5/18/2009	4:31:08	4:31:11	0:00:03
140	517202378	5/17/2009	23:05:59	5/18/2009	3:49:16	4:43:17	5/18/2009	4:31:11	4:31:16	0:00:05	5/18/2009	4:31:16	4:31:19	0:00:03
141	517202379	5/17/2009	23:06:00	5/18/2009	4:05:26	4:59:26	5/18/2009	4:31:19	4:31:24	0:00:05	5/18/2009	4:31:24	4:31:27	0:00:03
142	517202380	5/17/2009	23:06:00	5/18/2009	3:20:51	4:14:51	5/18/2009	4:31:27	4:31:31	0:00:04	5/18/2009	4:31:31	4:31:34	0:00:03
143	517202381	5/17/2009	23:06:00	5/18/2009	4:04:41	4:58:41	5/18/2009	4:31:34	4:31:39	0:00:05	5/18/2009	4:31:39	4:31:42	0:00:03
144	517202382	5/17/2009	23:05:58	5/18/2009	3:53:36	4:47:38	5/18/2009	4:31:42	4:31:47	0:00:05	5/18/2009	4:31:47	4:31:50	0:00:03
145	517202383	5/17/2009	23:06:00	5/18/2009	3:16:48	4:10:48	5/18/2009	4:31:50	4:31:54	0:00:04	5/18/2009	4:31:54	4:31:57	0:00:03
146	517202384	5/17/2009	23:05:59	5/18/2009	4:04:41	4:58:42	5/18/2009	4:31:57	4:32:02	0:00:05	5/18/2009	4:32:02	4:32:04	0:00:02
147	517202385	5/17/2009	23:06:00	5/18/2009	3:49:56	4:43:56	5/18/2009	4:32:04	4:32:10	0:00:06	5/18/2009	4:32:10	4:32:13	0:00:03
148	517202386	5/17/2009	23:05:58	5/18/2009	3:38:36	4:32:38	5/18/2009	4:32:13	4:32:17	0:00:04	5/18/2009	4:32:17	4:32:20	0:00:03
149	517202387	5/17/2009	23:06:00	5/18/2009	3:16:24	4:10:24	5/18/2009	4:32:20	4:32:25	0:00:05	5/18/2009	4:32:25	4:32:28	0:00:03
150	517202388	5/17/2009	23:06:00	5/18/2009	4:05:43	4:59:43	5/18/2009	4:32:28	4:32:33	0:00:05	5/18/2009	4:32:33	4:32:36	0:00:03



**HP BladeSystem c-Class 128P RAC  
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**Duration of Stream Execution**

151	517202389	5/17/2009	23:06:00	5/18/2009	3:48:05	4:42:05	5/18/2009	4:32:36	4:32:41	0:00:05	5/18/2009	4:32:41	4:32:44	0:00:03
152	517202390	5/17/2009	23:05:58	5/18/2009	4:04:22	4:58:24	5/18/2009	4:32:44	4:32:49	0:00:05	5/18/2009	4:32:49	4:32:52	0:00:03
153	517202391	5/17/2009	23:06:00	5/18/2009	3:22:41	4:16:41	5/18/2009	4:32:52	4:32:57	0:00:05	5/18/2009	4:32:57	4:33:00	0:00:03
154	517202392	5/17/2009	23:06:00	5/18/2009	3:44:34	4:38:34	5/18/2009	4:33:00	4:33:05	0:00:05	5/18/2009	4:33:05	4:33:08	0:00:03
155	517202393	5/17/2009	23:06:02	5/18/2009	3:22:58	4:16:56	5/18/2009	4:33:08	4:33:13	0:00:05	5/18/2009	4:33:13	4:33:15	0:00:02
156	517202394	5/17/2009	23:06:02	5/18/2009	3:49:35	4:43:33	5/18/2009	4:33:15	4:33:20	0:00:05	5/18/2009	4:33:20	4:33:23	0:00:03
157	517202395	5/17/2009	23:06:00	5/18/2009	4:13:25	5:07:25	5/18/2009	4:33:23	4:33:28	0:00:05	5/18/2009	4:33:28	4:33:31	0:00:03
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160	517202398	5/17/2009	23:06:01	5/18/2009	3:17:41	4:11:40	5/18/2009	4:33:47	4:33:53	0:00:06	5/18/2009	4:33:53	4:33:56	0:00:03
161	517202399	5/17/2009	23:06:01	5/18/2009	4:07:14	5:01:13	5/18/2009	4:33:56	4:34:01	0:00:05	5/18/2009	4:34:01	4:34:04	0:00:03
162	517202400	5/17/2009	23:06:01	5/18/2009	3:51:38	4:45:37	5/18/2009	4:34:04	4:34:09	0:00:05	5/18/2009	4:34:09	4:34:11	0:00:02
163	517202401	5/17/2009	23:06:01	5/18/2009	3:46:36	4:40:35	5/18/2009	4:34:11	4:34:17	0:00:06	5/18/2009	4:34:17	4:34:19	0:00:02
164	517202402	5/17/2009	23:06:01	5/18/2009	3:19:31	4:13:30	5/18/2009	4:34:19	4:34:24	0:00:05	5/18/2009	4:34:24	4:34:27	0:00:03
165	517202403	5/17/2009	23:06:07	5/18/2009	4:07:50	5:01:43	5/18/2009	4:34:27	4:34:31	0:00:04	5/18/2009	4:34:31	4:34:34	0:00:03
166	517202404	5/17/2009	23:06:01	5/18/2009	3:21:58	4:15:57	5/18/2009	4:34:34	4:34:39	0:00:05	5/18/2009	4:34:39	4:34:42	0:00:03
167	517202405	5/17/2009	23:06:02	5/18/2009	3:52:02	4:46:00	5/18/2009	4:34:42	4:34:47	0:00:05	5/18/2009	4:34:47	4:34:50	0:00:03
168	517202406	5/17/2009	23:06:01	5/18/2009	3:46:53	4:40:52	5/18/2009	4:34:50	4:34:55	0:00:05	5/18/2009	4:34:55	4:34:58	0:00:03
169	517202407	5/17/2009	23:06:01	5/18/2009	4:05:29	4:59:28	5/18/2009	4:34:58	4:35:03	0:00:05	5/18/2009	4:35:03	4:35:06	0:00:03
170	517202408	5/17/2009	23:05:48	5/18/2009	3:41:10	4:35:22	5/18/2009	4:35:06	4:35:10	0:00:04	5/18/2009	4:35:10	4:35:13	0:00:03
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172	517202410	5/17/2009	23:06:01	5/18/2009	3:47:03	4:41:02	5/18/2009	4:35:21	4:35:26	0:00:05	5/18/2009	4:35:26	4:35:29	0:00:03
173	517202411	5/17/2009	23:06:06	5/18/2009	2:54:33	3:48:27	5/18/2009	4:35:29	4:35:34	0:00:05	5/18/2009	4:35:34	4:35:37	0:00:03
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175	517202413	5/17/2009	23:06:01	5/18/2009	3:20:35	4:14:34	5/18/2009	4:35:44	4:35:49	0:00:05	5/18/2009	4:35:49	4:35:51	0:00:02
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177	517202415	5/17/2009	23:06:02	5/18/2009	3:49:35	4:43:33	5/18/2009	4:35:59	4:36:04	0:00:05	5/18/2009	4:36:04	4:36:06	0:00:02
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180	517202418	5/17/2009	23:06:01	5/18/2009	3:50:08	4:44:07	5/18/2009	4:36:22	4:36:27	0:00:05	5/18/2009	4:36:27	4:36:29	0:00:02
181	517202419	5/17/2009	23:06:02	5/18/2009	3:26:46	4:20:44	5/18/2009	4:36:29	4:36:35	0:00:06	5/18/2009	4:36:35	4:36:37	0:00:02
182	517202420	5/17/2009	23:06:01	5/18/2009	4:12:23	5:06:22	5/18/2009	4:36:37	4:36:43	0:00:06	5/18/2009	4:36:43	4:36:45	0:00:02
183	517202421	5/17/2009	23:06:01	5/18/2009	3:20:35	4:14:34	5/18/2009	4:36:45	4:36:51	0:00:06	5/18/2009	4:36:51	4:36:54	0:00:03
184	517202422	5/17/2009	23:06:02	5/18/2009	4:06:57	5:00:55	5/18/2009	4:36:54	4:36:59	0:00:05	5/18/2009	4:36:59	4:37:02	0:00:03
185	517202423	5/17/2009	23:06:01	5/18/2009	3:23:06	4:17:05	5/18/2009	4:37:02	4:37:07	0:00:05	5/18/2009	4:37:07	4:37:10	0:00:03
186	517202424	5/17/2009	23:06:06	5/18/2009	4:07:14	5:01:08	5/18/2009	4:37:10	4:37:15	0:00:05	5/18/2009	4:37:15	4:37:18	0:00:03
187	517202425	5/17/2009	23:06:01	5/18/2009	4:11:16	5:05:15	5/18/2009	4:37:18	4:37:22	0:00:04	5/18/2009	4:37:22	4:37:25	0:00:03
188	517202426	5/17/2009	23:06:01	5/18/2009	3:50:04	4:44:03	5/18/2009	4:37:25	4:37:31	0:00:06	5/18/2009	4:37:31	4:37:33	0:00:02
189	517202427	5/17/2009	23:06:01	5/18/2009	3:19:32	4:13:31	5/18/2009	4:37:33	4:37:39	0:00:06	5/18/2009	4:37:39	4:37:41	0:00:02
190	517202428	5/17/2009	23:06:01	5/18/2009	4:06:28	5:00:27	5/18/2009	4:37:41	4:37:47	0:00:06	5/18/2009	4:37:47	4:37:50	0:00:03
191	517202429	5/17/2009	23:06:01	5/18/2009	3:46:36	4:40:35	5/18/2009	4:37:50	4:37:55	0:00:05	5/18/2009	4:37:55	4:37:57	0:00:02
192	517202430	5/17/2009	23:05:49	5/18/2009	4:03:41	4:57:52	5/18/2009	4:37:57	4:38:03	0:00:06	5/18/2009	4:38:03	4:38:06	0:00:03
193	517202431	5/17/2009	23:06:01	5/18/2009	4:06:15	5:00:14	5/18/2009	4:38:06	4:38:11	0:00:05	5/18/2009	4:38:11	4:38:13	0:00:02
194	517202432	5/17/2009	23:06:01	5/18/2009	3:49:42	4:43:41	5/18/2009	4:38:13	4:38:19	0:00:06	5/18/2009	4:38:19	4:38:22	0:00:03
195	517202433	5/17/2009	23:05:48	5/18/2009	3:40:41	4:34:53	5/18/2009	4:38:22	4:38:26	0:00:04	5/18/2009	4:38:26	4:38:29	0:00:03
196	517202434	5/17/2009	23:05:49	5/18/2009	3:11:57	4:06:08	5/18/2009	4:38:29	4:38:34	0:00:05	5/18/2009	4:38:34	4:38:37	0:00:03
197	517202435	5/17/2009	23:05:49	5/18/2009	3:42:16	4:36:27	5/18/2009	4:38:37	4:38:42	0:00:05	5/18/2009	4:38:42	4:38:44	0:00:02
198	517202436	5/17/2009	23:05:49	5/18/2009	4:11:54	5:06:05	5/18/2009	4:38:44	4:38:49	0:00:05	5/18/2009	4:38:49	4:38:52	0:00:03
199	517202437	5/17/2009	23:05:49	5/18/2009	2:40:32	3:34:43	5/18/2009	4:38:52	4:38:56	0:00:04	5/18/2009	4:38:56	4:38:59	0:00:03
200	517202438	5/17/2009	23:05:49	5/18/2009	4:03:24	4:57:35	5/18/2009	4:38:59	4:39:05	0:00:06	5/18/2009	4:39:05	4:39:07	0:00:02





**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

**Duration of Stream Execution**

201	517202439	5/17/2009	23:05:49	5/18/2009	3:41:21	4:35:32	5/18/2009	4:39:07	4:39:12	0:00:05	5/18/2009	4:39:12	4:39:16	0:00:04
202	517202440	5/17/2009	23:05:49	5/18/2009	4:03:43	4:57:54	5/18/2009	4:39:16	4:39:21	0:00:05	5/18/2009	4:39:21	4:39:24	0:00:03
203	517202441	5/17/2009	23:05:59	5/18/2009	4:07:45	5:01:46	5/18/2009	4:39:24	4:39:29	0:00:05	5/18/2009	4:39:29	4:39:32	0:00:03
204	517202442	5/17/2009	23:05:49	5/18/2009	4:02:53	4:57:04	5/18/2009	4:39:32	4:39:37	0:00:05	5/18/2009	4:39:37	4:39:40	0:00:03
205	517202443	5/17/2009	23:05:49	5/18/2009	3:11:43	4:05:54	5/18/2009	4:39:40	4:39:45	0:00:05	5/18/2009	4:39:45	4:39:48	0:00:03
206	517202444	5/17/2009	23:05:49	5/18/2009	4:03:06	4:57:17	5/18/2009	4:39:48	4:39:53	0:00:05	5/18/2009	4:39:53	4:39:56	0:00:03
207	517202445	5/17/2009	23:05:49	5/18/2009	4:03:08	4:57:19	5/18/2009	4:39:56	4:40:01	0:00:05	5/18/2009	4:40:01	4:40:03	0:00:02
208	517202446	5/17/2009	23:05:49	5/18/2009	3:43:21	4:37:32	5/18/2009	4:40:03	4:40:08	0:00:05	5/18/2009	4:40:08	4:40:11	0:00:03
209	517202447	5/17/2009	23:05:49	5/18/2009	4:03:44	4:57:55	5/18/2009	4:40:11	4:40:16	0:00:05	5/18/2009	4:40:16	4:40:18	0:00:02
210	517202448	5/17/2009	23:05:49	5/18/2009	4:11:54	5:06:05	5/18/2009	4:40:18	4:40:24	0:00:06	5/18/2009	4:40:24	4:40:26	0:00:02
211	517202449	5/17/2009	23:05:49	5/18/2009	4:03:43	4:57:54	5/18/2009	4:40:26	4:40:32	0:00:06	5/18/2009	4:40:32	4:40:35	0:00:03
212	517202450	5/17/2009	23:06:00	5/18/2009	2:45:58	3:39:58	5/18/2009	4:40:35	4:40:40	0:00:05	5/18/2009	4:40:40	4:40:43	0:00:03
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214	517202452	5/17/2009	23:05:49	5/18/2009	3:14:39	4:08:50	5/18/2009	4:40:51	4:40:56	0:00:05	5/18/2009	4:40:56	4:40:58	0:00:02
215	517202453	5/17/2009	23:06:00	5/18/2009	3:47:29	4:41:29	5/18/2009	4:40:58	4:41:03	0:00:05	5/18/2009	4:41:03	4:41:06	0:00:03
216	517202454	5/17/2009	23:06:00	5/18/2009	3:48:01	4:42:01	5/18/2009	4:41:06	4:41:11	0:00:05	5/18/2009	4:41:11	4:41:14	0:00:03
217	517202455	5/17/2009	23:06:00	5/18/2009	3:19:13	4:13:13	5/18/2009	4:41:14	4:41:19	0:00:05	5/18/2009	4:41:19	4:41:22	0:00:03
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219	517202457	5/17/2009	23:05:49	5/18/2009	4:03:09	4:57:20	5/18/2009	4:41:30	4:41:35	0:00:05	5/18/2009	4:41:35	4:41:38	0:00:03
220	517202458	5/17/2009	23:05:50	5/18/2009	3:12:54	4:07:04	5/18/2009	4:41:38	4:41:43	0:00:05	5/18/2009	4:41:43	4:41:46	0:00:03
221	517202459	5/17/2009	23:06:00	5/18/2009	3:47:44	4:41:44	5/18/2009	4:41:46	4:41:50	0:00:04	5/18/2009	4:41:50	4:41:53	0:00:03
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223	517202461	5/17/2009	23:06:00	5/18/2009	4:05:43	4:59:43	5/18/2009	4:42:02	4:42:07	0:00:05	5/18/2009	4:42:07	4:42:09	0:00:02
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225	517202463	5/17/2009	23:06:00	5/18/2009	3:17:30	4:11:30	5/18/2009	4:42:17	4:42:22	0:00:05	5/18/2009	4:42:22	4:42:25	0:00:03
226	517202464	5/17/2009	23:05:59	5/18/2009	3:53:55	4:47:56	5/18/2009	4:42:25	4:42:30	0:00:05	5/18/2009	4:42:30	4:42:33	0:00:03
227	517202465	5/17/2009	23:05:57	5/18/2009	3:43:21	4:37:24	5/18/2009	4:42:33	4:42:38	0:00:05	5/18/2009	4:42:38	4:42:40	0:00:02
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232	517202470	5/17/2009	23:06:00	5/18/2009	4:05:12	4:59:12	5/18/2009	4:43:11	4:43:16	0:00:05	5/18/2009	4:43:16	4:43:18	0:00:02
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234	517202472	5/17/2009	23:05:58	5/18/2009	3:43:40	4:37:42	5/18/2009	4:43:26	4:43:31	0:00:05	5/18/2009	4:43:31	4:43:35	0:00:04
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237	517202475	5/17/2009	23:06:00	5/18/2009	4:04:54	4:58:54	5/18/2009	4:43:51	4:43:56	0:00:05	5/18/2009	4:43:56	4:44:00	0:00:04
238	517202476	5/17/2009	23:06:00	5/18/2009	3:21:22	4:15:22	5/18/2009	4:44:00	4:44:05	0:00:05	5/18/2009	4:44:05	4:44:08	0:00:03
239	517202477	5/17/2009	23:06:00	5/18/2009	4:06:15	5:00:15	5/18/2009	4:44:08	4:44:13	0:00:05	5/18/2009	4:44:13	4:44:16	0:00:03
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244	517202482	5/17/2009	23:05:58	5/18/2009	4:04:22	4:58:24	5/18/2009	4:44:48	4:44:54	0:00:06	5/18/2009	4:44:54	4:44:57	0:00:03
245	517202483	5/17/2009	23:05:58	5/18/2009	3:43:21	4:37:23	5/18/2009	4:44:57	4:45:02	0:00:05	5/18/2009	4:45:02	4:45:05	0:00:03
246	517202484	5/17/2009	23:05:58	5/18/2009	3:13:49	4:07:51	5/18/2009	4:45:05	4:45:10	0:00:05	5/18/2009	4:45:10	4:45:13	0:00:03
247	517202485	5/17/2009	23:05:58	5/18/2009	4:12:11	5:06:13	5/18/2009	4:45:13	4:45:17	0:00:04	5/18/2009	4:45:17	4:45:21	0:00:04
248	517202486	5/17/2009	23:05:58	5/18/2009	3:48:04	4:42:06	5/18/2009	4:45:21	4:45:26	0:00:05	5/18/2009	4:45:26	4:45:29	0:00:03
249	517202487	5/17/2009	23:05:58	5/18/2009	3:18:54	4:12:56	5/18/2009	4:45:29	4:45:34	0:00:05	5/18/2009	4:45:34	4:45:37	0:00:03
250	517202488	5/17/2009	23:05:58	5/18/2009	4:12:11	5:06:13	5/18/2009	4:45:37	4:45:42	0:00:05	5/18/2009	4:45:42	4:45:45	0:00:03





**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

**Duration of Stream Execution**

251	517202489	5/17/2009	23:05:58	5/18/2009	4:11:54	5:05:56	5/18/2009	4:45:45	4:45:49	0:00:04	5/18/2009	4:45:49	4:45:52	0:00:03
252	517202490	5/17/2009	23:06:00	5/18/2009	4:04:54	4:58:54	5/18/2009	4:45:52	4:45:57	0:00:05	5/18/2009	4:45:57	4:46:00	0:00:03
253	517202491	5/17/2009	23:06:00	5/18/2009	2:45:29	3:39:29	5/18/2009	4:46:00	4:46:05	0:00:05	5/18/2009	4:46:05	4:46:08	0:00:03
254	517202492	5/17/2009	23:06:00	5/18/2009	3:46:18	4:40:18	5/18/2009	4:46:08	4:46:14	0:00:06	5/18/2009	4:46:14	4:46:17	0:00:03
255	517202493	5/17/2009	23:06:01	5/18/2009	2:51:09	3:45:08	5/18/2009	4:46:17	4:46:21	0:00:04	5/18/2009	4:46:21	4:46:24	0:00:03
256	517202494	5/17/2009	23:06:00	5/18/2009	3:48:17	4:42:17	5/18/2009	4:46:24	4:46:30	0:00:06	5/18/2009	4:46:30	4:46:32	0:00:02
257	517202495	5/17/2009	23:06:00	5/18/2009	3:23:25	4:17:25	5/18/2009	4:46:32	4:46:37	0:00:05	5/18/2009	4:46:37	4:46:39	0:00:02
258	517202496	5/17/2009	23:06:00	5/18/2009	3:21:52	4:15:52	5/18/2009	4:46:39	4:46:44	0:00:05	5/18/2009	4:46:44	4:46:47	0:00:03
259	517202497	5/17/2009	23:06:00	5/18/2009	3:45:59	4:39:59	5/18/2009	4:46:47	4:46:51	0:00:04	5/18/2009	4:46:51	4:46:54	0:00:03
260	517202498	5/17/2009	23:06:00	5/18/2009	4:05:03	4:59:03	5/18/2009	4:46:54	4:47:00	0:00:06	5/18/2009	4:47:00	4:47:03	0:00:03
261	517202499	5/17/2009	23:06:01	5/18/2009	3:48:47	4:42:46	5/18/2009	4:47:03	4:47:07	0:00:04	5/18/2009	4:47:07	4:47:09	0:00:02
262	517202500	5/17/2009	23:06:00	5/18/2009	3:17:23	4:11:23	5/18/2009	4:47:09	4:47:14	0:00:05	5/18/2009	4:47:14	4:47:17	0:00:03
263	517202501	5/17/2009	23:06:02	5/18/2009	3:52:04	4:46:02	5/18/2009	4:47:17	4:47:21	0:00:04	5/18/2009	4:47:21	4:47:25	0:00:04
264	517202502	5/17/2009	23:06:01	5/18/2009	3:20:01	4:14:00	5/18/2009	4:47:25	4:47:29	0:00:04	5/18/2009	4:47:29	4:47:32	0:00:03
265	517202503	5/17/2009	23:06:01	5/18/2009	3:23:43	4:17:42	5/18/2009	4:47:32	4:47:36	0:00:04	5/18/2009	4:47:36	4:47:39	0:00:03
266	517202504	5/17/2009	23:06:02	5/18/2009	3:48:50	4:42:48	5/18/2009	4:47:39	4:47:44	0:00:05	5/18/2009	4:47:44	4:47:47	0:00:03
267	517202505	5/17/2009	23:06:01	5/18/2009	3:53:54	4:47:53	5/18/2009	4:47:47	4:47:51	0:00:04	5/18/2009	4:47:51	4:47:54	0:00:03
268	517202506	5/17/2009	23:06:02	5/18/2009	3:49:04	4:43:02	5/18/2009	4:47:54	4:47:59	0:00:05	5/18/2009	4:47:59	4:48:02	0:00:03
269	517202507	5/17/2009	23:06:07	5/18/2009	4:07:36	5:01:29	5/18/2009	4:48:02	4:48:06	0:00:04	5/18/2009	4:48:06	4:48:09	0:00:03
270	517202508	5/17/2009	23:06:01	5/18/2009	4:07:23	5:01:22	5/18/2009	4:48:09	4:48:14	0:00:05	5/18/2009	4:48:14	4:48:17	0:00:03
271	517202509	5/17/2009	23:06:01	5/18/2009	3:48:29	4:42:28	5/18/2009	4:48:17	4:48:22	0:00:05	5/18/2009	4:48:22	4:48:24	0:00:02
272	517202510	5/17/2009	23:06:01	5/18/2009	4:06:28	5:00:27	5/18/2009	4:48:24	4:48:29	0:00:05	5/18/2009	4:48:29	4:48:32	0:00:03
273	517202511	5/17/2009	23:06:01	5/18/2009	3:20:51	4:14:50	5/18/2009	4:48:32	4:48:37	0:00:05	5/18/2009	4:48:37	4:48:40	0:00:03
274	517202512	5/17/2009	23:06:01	5/18/2009	3:50:37	4:44:36	5/18/2009	4:48:40	4:48:45	0:00:05	5/18/2009	4:48:45	4:48:47	0:00:02
275	517202513	5/17/2009	23:06:06	5/18/2009	3:23:59	4:17:53	5/18/2009	4:48:47	4:48:52	0:00:05	5/18/2009	4:48:52	4:48:55	0:00:03
276	517202514	5/17/2009	23:06:02	5/18/2009	3:51:38	4:45:36	5/18/2009	4:48:55	4:49:00	0:00:05	5/18/2009	4:49:00	4:49:02	0:00:02
277	517202515	5/17/2009	23:06:02	5/18/2009	3:49:21	4:43:19	5/18/2009	4:49:02	4:49:07	0:00:05	5/18/2009	4:49:07	4:49:10	0:00:03
278	517202516	5/17/2009	23:06:04	5/18/2009	3:22:26	4:16:22	5/18/2009	4:49:10	4:49:15	0:00:05	5/18/2009	4:49:15	4:49:18	0:00:03
279	517202517	5/17/2009	23:06:06	5/18/2009	3:25:18	4:19:12	5/18/2009	4:49:18	4:49:23	0:00:05	5/18/2009	4:49:23	4:49:26	0:00:03
280	517202518	5/17/2009	23:06:05	5/18/2009	4:08:06	5:02:01	5/18/2009	4:49:26	4:49:30	0:00:04	5/18/2009	4:49:30	4:49:33	0:00:03
281	517202519	5/17/2009	23:06:05	5/18/2009	3:22:39	4:16:34	5/18/2009	4:49:33	4:49:38	0:00:05	5/18/2009	4:49:38	4:49:41	0:00:03
282	517202520	5/17/2009	23:06:07	5/18/2009	4:08:06	5:01:59	5/18/2009	4:49:41	4:49:46	0:00:05	5/18/2009	4:49:46	4:49:49	0:00:03
283	517202521	5/17/2009	23:06:04	5/18/2009	4:06:56	5:00:52	5/18/2009	4:49:49	4:49:54	0:00:05	5/18/2009	4:49:54	4:49:56	0:00:02
284	517202522	5/17/2009	23:06:07	5/18/2009	3:54:25	4:48:18	5/18/2009	4:49:56	4:50:01	0:00:05	5/18/2009	4:50:01	4:50:04	0:00:03
285	517202523	5/17/2009	23:06:06	5/18/2009	3:52:12	4:46:06	5/18/2009	4:50:04	4:50:09	0:00:05	5/18/2009	4:50:09	4:50:12	0:00:03
286	517202524	5/17/2009	23:06:06	5/18/2009	3:50:39	4:44:33	5/18/2009	4:50:12	4:50:16	0:00:04	5/18/2009	4:50:16	4:50:19	0:00:03
287	517202525	5/17/2009	23:06:06	5/18/2009	3:23:59	4:17:53	5/18/2009	4:50:19	4:50:24	0:00:05	5/18/2009	4:50:24	4:50:27	0:00:03
288	517202526	5/17/2009	23:06:07	5/18/2009	4:12:51	5:06:44	5/18/2009	4:50:27	4:50:32	0:00:05	5/18/2009	4:50:32	4:50:34	0:00:02
289	517202527	5/17/2009	23:06:07	5/18/2009	3:52:39	4:46:32	5/18/2009	4:50:34	4:50:40	0:00:06	5/18/2009	4:50:40	4:50:43	0:00:03
290	517202528	5/17/2009	23:06:07	5/18/2009	3:52:02	4:45:55	5/18/2009	4:50:43	4:50:49	0:00:06	5/18/2009	4:50:49	4:50:51	0:00:02
291	517202529	5/17/2009	23:06:06	5/18/2009	4:07:36	5:01:30	5/18/2009	4:50:51	4:50:56	0:00:05	5/18/2009	4:50:56	4:50:59	0:00:03
292	517202530	5/17/2009	23:06:07	5/18/2009	4:12:50	5:06:43	5/18/2009	4:50:59	4:51:03	0:00:04	5/18/2009	4:51:03	4:51:06	0:00:03
293	517202531	5/17/2009	23:06:07	5/18/2009	3:51:28	4:45:21	5/18/2009	4:51:06	4:51:12	0:00:06	5/18/2009	4:51:12	4:51:14	0:00:02
294	517202532	5/17/2009	23:06:07	5/18/2009	3:08:56	4:02:49	5/18/2009	4:51:14	4:51:19	0:00:05	5/18/2009	4:51:19	4:51:22	0:00:03
295	517202533	5/17/2009	23:06:06	5/18/2009	3:50:58	4:44:52	5/18/2009	4:51:22	4:51:27	0:00:05	5/18/2009	4:51:27	4:51:30	0:00:03
296	517202534	5/17/2009	23:06:07	5/18/2009	3:25:18	4:19:11	5/18/2009	4:51:30	4:51:34	0:00:04	5/18/2009	4:51:34	4:51:37	0:00:03
297	517202535	5/17/2009	23:06:07	5/18/2009	4:08:24	5:02:17	5/18/2009	4:51:37	4:51:43	0:00:06	5/18/2009	4:51:43	4:51:46	0:00:03
298	517202536	5/17/2009	23:06:07	5/18/2009	3:26:46	4:20:39	5/18/2009	4:51:46	4:51:50	0:00:04	5/18/2009	4:51:50	4:51:53	0:00:03
299	517202537	5/17/2009	23:06:07	5/18/2009	3:27:26	4:21:19	5/18/2009	4:51:53	4:51:58	0:00:05	5/18/2009	4:51:58	4:52:01	0:00:03
300	517202538	5/17/2009	23:06:07	5/18/2009	4:08:06	5:01:59	5/18/2009	4:52:01	4:52:06	0:00:05	5/18/2009	4:52:06	4:52:09	0:00:03



**HP BladeSystem c-Class 128P RAC  
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Report Date:  
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**Duration of Stream Execution**

301	517202539	5/17/2009	23:06:07	5/18/2009	3:51:35	4:45:28	5/18/2009	4:52:09	4:52:14	0:00:05	5/18/2009	4:52:14	4:52:17	0:00:03
302	517202540	5/17/2009	23:06:07	5/18/2009	3:25:54	4:19:47	5/18/2009	4:52:17	4:52:22	0:00:05	5/18/2009	4:52:22	4:52:25	0:00:03
303	517202541	5/17/2009	23:06:07	5/18/2009	3:51:50	4:45:43	5/18/2009	4:52:25	4:52:29	0:00:04	5/18/2009	4:52:29	4:52:32	0:00:03
304	517202542	5/17/2009	23:06:08	5/18/2009	3:52:37	4:46:29	5/18/2009	4:52:32	4:52:37	0:00:05	5/18/2009	4:52:37	4:52:40	0:00:03
305	517202543	5/17/2009	23:06:08	5/18/2009	3:52:13	4:46:05	5/18/2009	4:52:40	4:52:44	0:00:04	5/18/2009	4:52:44	4:52:47	0:00:03
306	517202544	5/17/2009	23:06:08	5/18/2009	3:53:06	4:46:58	5/18/2009	4:52:47	4:52:53	0:00:06	5/18/2009	4:52:53	4:52:56	0:00:03
307	517202545	5/17/2009	23:06:08	5/18/2009	3:25:55	4:19:47	5/18/2009	4:52:56	4:53:00	0:00:04	5/18/2009	4:53:00	4:53:03	0:00:03
308	517202546	5/17/2009	23:06:08	5/18/2009	3:54:34	4:48:26	5/18/2009	4:53:03	4:53:08	0:00:05	5/18/2009	4:53:08	4:53:11	0:00:03
309	517202547	5/17/2009	23:06:08	5/18/2009	3:51:39	4:45:31	5/18/2009	4:53:11	4:53:16	0:00:05	5/18/2009	4:53:16	4:53:19	0:00:03
310	517202548	5/17/2009	23:06:08	5/18/2009	3:52:23	4:46:15	5/18/2009	4:53:19	4:53:25	0:00:06	5/18/2009	4:53:25	4:53:27	0:00:02
311	517202549	5/17/2009	23:06:08	5/18/2009	2:57:22	3:51:14	5/18/2009	4:53:27	4:53:32	0:00:05	5/18/2009	4:53:32	4:53:34	0:00:02
312	517202550	5/17/2009	23:06:08	5/18/2009	3:38:36	4:32:28	5/18/2009	4:53:34	4:53:40	0:00:06	5/18/2009	4:53:40	4:53:43	0:00:03
313	517202551	5/17/2009	23:06:08	5/18/2009	4:08:22	5:02:14	5/18/2009	4:53:43	4:53:48	0:00:05	5/18/2009	4:53:48	4:53:50	0:00:02
314	517202552	5/17/2009	23:06:10	5/18/2009	3:53:26	4:47:16	5/18/2009	4:53:50	4:53:55	0:00:05	5/18/2009	4:53:55	4:53:58	0:00:03
315	517202553	5/17/2009	23:06:09	5/18/2009	3:53:21	4:47:12	5/18/2009	4:53:58	4:54:03	0:00:05	5/18/2009	4:54:03	4:54:06	0:00:03
316	517202554	5/17/2009	23:06:08	5/18/2009	4:08:23	5:02:15	5/18/2009	4:54:06	4:54:11	0:00:05	5/18/2009	4:54:11	4:54:14	0:00:03
317	517202555	5/17/2009	23:06:08	5/18/2009	3:53:36	4:47:28	5/18/2009	4:54:14	4:54:18	0:00:04	5/18/2009	4:54:18	4:54:21	0:00:03
318	517202556	5/17/2009	23:06:08	5/18/2009	4:08:07	5:01:59	5/18/2009	4:54:21	4:54:26	0:00:05	5/18/2009	4:54:26	4:54:29	0:00:03
319	517202557	5/17/2009	23:06:09	5/18/2009	3:52:50	4:46:41	5/18/2009	4:54:29	4:54:34	0:00:05	5/18/2009	4:54:34	4:54:37	0:00:03
320	517202558	5/17/2009	23:06:09	5/18/2009	4:08:59	5:02:50	5/18/2009	4:54:37	4:54:42	0:00:05	5/18/2009	4:54:42	4:54:45	0:00:03
321	517202559	5/17/2009	23:06:09	5/18/2009	4:13:05	5:06:56	5/18/2009	4:54:45	4:54:50	0:00:05	5/18/2009	4:54:50	4:54:53	0:00:03
322	517202560	5/17/2009	23:06:09	5/18/2009	3:26:55	4:20:46	5/18/2009	4:54:53	4:54:58	0:00:05	5/18/2009	4:54:58	4:55:01	0:00:03
323	517202561	5/17/2009	23:06:09	5/18/2009	4:08:42	5:02:33	5/18/2009	4:55:01	4:55:06	0:00:05	5/18/2009	4:55:06	4:55:08	0:00:02
324	517202562	5/17/2009	23:06:09	5/18/2009	3:52:37	4:46:28	5/18/2009	4:55:08	4:55:13	0:00:05	5/18/2009	4:55:13	4:55:16	0:00:03
325	517202563	5/17/2009	23:06:10	5/18/2009	3:55:06	4:48:56	5/18/2009	4:55:16	4:55:20	0:00:04	5/18/2009	4:55:20	4:55:23	0:00:03
326	517202564	5/17/2009	23:06:10	5/18/2009	4:08:55	5:02:45	5/18/2009	4:55:23	4:55:28	0:00:05	5/18/2009	4:55:28	4:55:31	0:00:03
327	517202565	5/17/2009	23:06:11	5/18/2009	3:53:26	4:47:15	5/18/2009	4:55:31	4:55:36	0:00:05	5/18/2009	4:55:36	4:55:39	0:00:03
328	517202566	5/17/2009	23:06:10	5/18/2009	3:27:44	4:21:34	5/18/2009	4:55:39	4:55:44	0:00:05	5/18/2009	4:55:44	4:55:47	0:00:03
329	517202567	5/17/2009	23:06:10	5/18/2009	3:53:26	4:47:16	5/18/2009	4:55:47	4:55:52	0:00:05	5/18/2009	4:55:52	4:55:54	0:00:02
330	517202568	5/17/2009	23:06:10	5/18/2009	3:53:44	4:47:34	5/18/2009	4:55:54	4:55:59	0:00:05	5/18/2009	4:55:59	4:56:02	0:00:03
331	517202569	5/17/2009	23:06:10	5/18/2009	3:53:55	4:47:45	5/18/2009	4:56:02	4:56:07	0:00:05	5/18/2009	4:56:07	4:56:10	0:00:03
332	517202570	5/17/2009	23:06:10	5/18/2009	4:08:42	5:02:32	5/18/2009	4:56:10	4:56:15	0:00:05	5/18/2009	4:56:15	4:56:18	0:00:03
333	517202571	5/17/2009	23:06:10	5/18/2009	3:52:50	4:46:40	5/18/2009	4:56:18	4:56:22	0:00:04	5/18/2009	4:56:22	4:56:25	0:00:03
334	517202572	5/17/2009	23:06:10	5/18/2009	4:13:06	5:06:56	5/18/2009	4:56:25	4:56:30	0:00:05	5/18/2009	4:56:30	4:56:32	0:00:02
335	517202573	5/17/2009	23:06:10	5/18/2009	2:57:06	3:50:56	5/18/2009	4:56:32	4:56:37	0:00:05	5/18/2009	4:56:37	4:56:40	0:00:03
336	517202574	5/17/2009	23:06:10	5/18/2009	3:27:35	4:21:25	5/18/2009	4:56:40	4:56:45	0:00:05	5/18/2009	4:56:45	4:56:48	0:00:03
337	517202575	5/17/2009	23:06:12	5/18/2009	2:57:29	3:51:17	5/18/2009	4:56:48	4:56:53	0:00:05	5/18/2009	4:56:53	4:56:56	0:00:03
338	517202576	5/17/2009	23:06:12	5/18/2009	4:09:29	5:03:17	5/18/2009	4:56:56	4:57:01	0:00:05	5/18/2009	4:57:01	4:57:04	0:00:03
339	517202577	5/17/2009	23:06:12	5/18/2009	3:54:07	4:47:55	5/18/2009	4:57:04	4:57:10	0:00:06	5/18/2009	4:57:10	4:58:00	0:00:50
340	517202578	5/17/2009	23:06:12	5/18/2009	3:29:01	4:22:49	5/18/2009	4:58:00	4:59:00	0:01:00	5/18/2009	4:59:00	4:59:14	0:00:14
341	517202579	5/17/2009	23:06:12	5/18/2009	4:08:58	5:02:46	5/18/2009	4:59:14	4:59:31	0:00:17	5/18/2009	4:59:31	4:59:55	0:00:24
342	517202580	5/17/2009	23:06:13	5/18/2009	3:54:36	4:48:23	5/18/2009	4:59:55	5:00:07	0:00:12	5/18/2009	5:00:07	5:00:21	0:00:14
343	517202581	5/17/2009	23:06:12	5/18/2009	3:28:49	4:22:37	5/18/2009	5:00:21	5:00:28	0:00:07	5/18/2009	5:00:28	5:00:35	0:00:07
344	517202582	5/17/2009	23:06:13	5/18/2009	3:54:25	4:48:12	5/18/2009	5:00:35	5:00:43	0:00:08	5/18/2009	5:00:43	5:00:50	0:00:07
345	517202583	5/17/2009	23:06:13	5/18/2009	4:09:15	5:03:02	5/18/2009	5:00:50	5:00:58	0:00:08	5/18/2009	5:00:58	5:01:02	0:00:04
346	517202584	5/17/2009	23:06:13	5/18/2009	3:54:49	4:48:36	5/18/2009	5:01:02	5:01:07	0:00:05	5/18/2009	5:01:07	5:01:11	0:00:04
347	517202585	5/17/2009	23:06:13	5/18/2009	3:29:15	4:23:02	5/18/2009	5:01:11	5:01:18	0:00:07	5/18/2009	5:01:18	5:01:23	0:00:05
348	517202586	5/17/2009	23:06:14	5/18/2009	3:30:05	4:23:51	5/18/2009	5:01:23	5:01:28	0:00:05	5/18/2009	5:01:28	5:01:32	0:00:04
349	517202587	5/17/2009	23:06:13	5/18/2009	3:55:53	4:49:40	5/18/2009	5:01:32	5:01:38	0:00:06	5/18/2009	5:01:38	5:01:41	0:00:03
350	517202588	5/17/2009	23:06:13	5/18/2009	3:54:25	4:48:12	5/18/2009	5:01:41	5:01:47	0:00:06	5/18/2009	5:01:47	5:01:50	0:00:03



**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

**Duration of Stream Execution**

351	517202589	5/17/2009	23:06:13	5/18/2009	3:53:37	4:47:24	5/18/2009	5:01:50	5:01:55	0:00:05	5/18/2009	5:01:55	5:01:59	0:00:04
352	517202590	5/17/2009	23:06:13	5/18/2009	4:13:26	5:07:13	5/18/2009	5:01:59	5:02:05	0:00:06	5/18/2009	5:02:05	5:02:08	0:00:03
353	517202591	5/17/2009	23:06:13	5/18/2009	3:30:16	4:24:03	5/18/2009	5:02:08	5:02:14	0:00:06	5/18/2009	5:02:14	5:02:17	0:00:03
354	517202592	5/17/2009	23:06:13	5/18/2009	2:59:19	3:53:06	5/18/2009	5:02:17	5:02:24	0:00:07	5/18/2009	5:02:24	5:02:27	0:00:03
355	517202593	5/17/2009	23:06:13	5/18/2009	3:29:53	4:23:40	5/18/2009	5:02:27	5:02:35	0:00:08	5/18/2009	5:02:35	5:02:38	0:00:03
356	517202594	5/17/2009	23:06:13	5/18/2009	3:55:21	4:49:08	5/18/2009	5:02:38	5:02:44	0:00:06	5/18/2009	5:02:44	5:02:48	0:00:04
357	517202595	5/17/2009	23:06:13	5/18/2009	4:09:15	5:03:02	5/18/2009	5:02:48	5:02:53	0:00:05	5/18/2009	5:02:53	5:02:56	0:00:03
358	517202596	5/17/2009	23:06:14	5/18/2009	3:31:41	4:25:27	5/18/2009	5:02:56	5:03:02	0:00:06	5/18/2009	5:03:02	5:03:06	0:00:04
359	517202597	5/17/2009	23:06:13	5/18/2009	4:09:16	5:03:03	5/18/2009	5:03:06	5:03:11	0:00:05	5/18/2009	5:03:11	5:03:15	0:00:04
360	517202598	5/17/2009	23:06:13	5/18/2009	3:55:21	4:49:08	5/18/2009	5:03:15	5:03:20	0:00:05	5/18/2009	5:03:20	5:03:23	0:00:03
361	517202599	5/17/2009	23:06:13	5/18/2009	3:30:57	4:24:44	5/18/2009	5:03:23	5:03:29	0:00:06	5/18/2009	5:03:29	5:03:33	0:00:04
362	517202600	5/17/2009	23:06:13	5/18/2009	4:09:26	5:03:13	5/18/2009	5:03:33	5:03:39	0:00:06	5/18/2009	5:03:39	5:03:43	0:00:04
363	517202601	5/17/2009	23:06:14	5/18/2009	2:29:24	3:23:10	5/18/2009	5:03:43	5:03:49	0:00:06	5/18/2009	5:03:49	5:03:52	0:00:03
364	517202602	5/17/2009	23:06:14	5/18/2009	4:09:37	5:03:23	5/18/2009	5:03:52	5:03:58	0:00:06	5/18/2009	5:03:58	5:04:01	0:00:03
365	517202603	5/17/2009	23:06:15	5/18/2009	3:55:39	4:49:24	5/18/2009	5:04:01	5:04:07	0:00:06	5/18/2009	5:04:07	5:04:10	0:00:03
366	517202604	5/17/2009	23:06:14	5/18/2009	3:56:14	4:50:00	5/18/2009	5:04:10	5:04:16	0:00:06	5/18/2009	5:04:16	5:04:18	0:00:02
367	517202605	5/17/2009	23:06:14	5/18/2009	4:09:26	5:03:12	5/18/2009	5:04:18	5:04:24	0:00:06	5/18/2009	5:04:24	5:04:27	0:00:03
368	517202606	5/17/2009	23:06:14	5/18/2009	3:54:35	4:48:21	5/18/2009	5:04:27	5:04:33	0:00:06	5/18/2009	5:04:33	5:04:36	0:00:03
369	517202607	5/17/2009	23:06:15	5/18/2009	3:30:31	4:24:16	5/18/2009	5:04:36	5:04:41	0:00:05	5/18/2009	5:04:41	5:04:44	0:00:03
370	517202608	5/17/2009	23:06:14	5/18/2009	3:55:53	4:49:39	5/18/2009	5:04:44	5:04:51	0:00:07	5/18/2009	5:04:51	5:04:54	0:00:03
371	517202609	5/17/2009	23:06:14	5/18/2009	3:30:36	4:24:22	5/18/2009	5:04:54	5:05:00	0:00:06	5/18/2009	5:05:00	5:05:03	0:00:03
372	517202610	5/17/2009	23:06:14	5/18/2009	4:09:36	5:03:22	5/18/2009	5:05:03	5:05:08	0:00:05	5/18/2009	5:05:08	5:05:12	0:00:04
373	517202611	5/17/2009	23:06:15	5/18/2009	3:31:09	4:24:54	5/18/2009	5:05:12	5:05:18	0:00:06	5/18/2009	5:05:18	5:05:21	0:00:03
374	517202612	5/17/2009	23:06:14	5/18/2009	4:09:50	5:03:36	5/18/2009	5:05:21	5:05:27	0:00:06	5/18/2009	5:05:27	5:05:30	0:00:03
375	517202613	5/17/2009	23:06:15	5/18/2009	4:13:06	5:06:51	5/18/2009	5:05:30	5:05:35	0:00:05	5/18/2009	5:05:36	5:05:39	0:00:03
376	517202614	5/17/2009	23:06:14	5/18/2009	3:31:08	4:24:54	5/18/2009	5:05:39	5:05:44	0:00:05	5/18/2009	5:05:44	5:05:47	0:00:03
377	517202615	5/17/2009	23:06:15	5/18/2009	3:31:37	4:25:22	5/18/2009	5:05:47	5:05:53	0:00:06	5/18/2009	5:05:53	5:05:56	0:00:03
378	517202616	5/17/2009	23:06:15	5/18/2009	3:01:21	3:55:06	5/18/2009	5:05:56	5:06:02	0:00:06	5/18/2009	5:06:02	5:06:05	0:00:03
379	517202617	5/17/2009	23:06:15	5/18/2009	4:09:50	5:03:35	5/18/2009	5:06:05	5:06:11	0:00:06	5/18/2009	5:06:11	5:06:14	0:00:03
380	517202618	5/17/2009	23:06:21	5/18/2009	3:32:53	4:26:32	5/18/2009	5:06:14	5:06:20	0:00:06	5/18/2009	5:06:20	5:06:23	0:00:03
381	517202619	5/17/2009	23:06:15	5/18/2009	3:56:41	4:50:26	5/18/2009	5:06:23	5:06:29	0:00:06	5/18/2009	5:06:29	5:06:32	0:00:03
382	517202620	5/17/2009	23:06:15	5/18/2009	3:56:14	4:49:59	5/18/2009	5:06:32	5:06:38	0:00:06	5/18/2009	5:06:38	5:06:41	0:00:03
383	517202621	5/17/2009	23:06:17	5/18/2009	3:56:13	4:49:56	5/18/2009	5:06:41	5:06:47	0:00:06	5/18/2009	5:06:47	5:06:50	0:00:03
384	517202622	5/17/2009	23:06:16	5/18/2009	3:56:35	4:50:19	5/18/2009	5:06:50	5:06:55	0:00:05	5/18/2009	5:06:55	5:06:59	0:00:04
385	517202623	5/17/2009	23:06:17	5/18/2009	3:55:53	4:49:36	5/18/2009	5:06:59	5:07:04	0:00:05	5/18/2009	5:07:04	5:07:07	0:00:03
386	517202624	5/17/2009	23:06:17	5/18/2009	4:13:20	5:07:03	5/18/2009	5:07:07	5:07:12	0:00:05	5/18/2009	5:07:12	5:07:16	0:00:04
387	517202625	5/17/2009	23:06:17	5/18/2009	3:00:58	3:54:41	5/18/2009	5:07:16	5:07:21	0:00:05	5/18/2009	5:07:21	5:07:25	0:00:04
388	517202626	5/17/2009	23:06:17	5/18/2009	3:56:14	4:49:57	5/18/2009	5:07:25	5:07:30	0:00:05	5/18/2009	5:07:30	5:07:34	0:00:04
389	517202627	5/17/2009	23:06:17	5/18/2009	3:56:31	4:50:14	5/18/2009	5:07:34	5:07:38	0:00:04	5/18/2009	5:07:38	5:07:42	0:00:04
390	517202628	5/17/2009	23:06:17	5/18/2009	3:56:24	4:50:07	5/18/2009	5:07:42	5:07:47	0:00:05	5/18/2009	5:07:47	5:07:50	0:00:03
391	517202629	5/17/2009	23:06:17	5/18/2009	3:31:26	4:25:09	5/18/2009	5:07:50	5:07:56	0:00:06	5/18/2009	5:07:56	5:07:59	0:00:03
392	517202630	5/17/2009	23:06:19	5/18/2009	3:32:00	4:25:41	5/18/2009	5:07:59	5:08:05	0:00:06	5/18/2009	5:08:05	5:08:07	0:00:02
393	517202631	5/17/2009	23:06:17	5/18/2009	3:57:03	4:50:46	5/18/2009	5:08:07	5:08:13	0:00:06	5/18/2009	5:08:13	5:08:17	0:00:04
394	517202632	5/17/2009	23:06:18	5/18/2009	3:31:45	4:25:27	5/18/2009	5:08:17	5:08:23	0:00:06	5/18/2009	5:08:23	5:08:26	0:00:03
395	517202633	5/17/2009	23:06:18	5/18/2009	3:32:14	4:25:56	5/18/2009	5:08:26	5:08:32	0:00:06	5/18/2009	5:08:32	5:08:36	0:00:04
396	517202634	5/17/2009	23:06:18	5/18/2009	3:56:14	4:49:56	5/18/2009	5:08:36	5:08:41	0:00:05	5/18/2009	5:08:41	5:08:45	0:00:04
397	517202635	5/17/2009	23:06:18	5/18/2009	4:10:08	5:03:50	5/18/2009	5:08:45	5:08:51	0:00:06	5/18/2009	5:08:51	5:08:54	0:00:03
398	517202636	5/17/2009	23:06:23	5/18/2009	3:57:06	4:50:43	5/18/2009	5:08:54	5:09:00	0:00:06	5/18/2009	5:09:00	5:09:03	0:00:03
399	517202637	5/17/2009	23:06:19	5/18/2009	3:56:48	4:50:29	5/18/2009	5:09:03	5:09:09	0:00:06	5/18/2009	5:09:09	5:09:12	0:00:03
400	517202638	5/17/2009	23:06:19	5/18/2009	3:56:30	4:50:11	5/18/2009	5:09:12	5:09:18	0:00:06	5/18/2009	5:09:18	5:09:22	0:00:04



**HP BladeSystem c-Class 128P RAC**  
with  
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Report Date:  
**June 3, 2009**

**Duration of Stream Execution**

401	517202639	5/17/2009	23:06:21	5/18/2009	4:10:00	5:03:39	5/18/2009	5:09:22	5:09:27	0:00:05	5/18/2009	5:09:27	5:09:31	0:00:04
402	517202640	5/17/2009	23:06:18	5/18/2009	3:31:59	4:25:41	5/18/2009	5:09:31	5:09:36	0:00:05	5/18/2009	5:09:36	5:09:39	0:00:03
403	517202641	5/17/2009	23:06:20	5/18/2009	4:09:59	5:03:39	5/18/2009	5:09:39	5:09:46	0:00:07	5/18/2009	5:09:46	5:09:50	0:00:04
404	517202642	5/17/2009	23:06:26	5/18/2009	3:03:21	3:56:55	5/18/2009	5:09:50	5:09:54	0:00:04	5/18/2009	5:09:54	5:09:58	0:00:04
405	517202643	5/17/2009	23:06:24	5/18/2009	3:57:28	4:51:04	5/18/2009	5:09:58	5:10:04	0:00:06	5/18/2009	5:10:04	5:10:08	0:00:04
406	517202644	5/17/2009	23:06:23	5/18/2009	3:32:53	4:26:30	5/18/2009	5:10:08	5:10:13	0:00:05	5/18/2009	5:10:13	5:10:17	0:00:04
407	517202645	5/17/2009	23:06:20	5/18/2009	4:10:10	5:03:50	5/18/2009	5:10:17	5:10:22	0:00:05	5/18/2009	5:10:22	5:10:26	0:00:04
408	517202646	5/17/2009	23:06:24	5/18/2009	4:10:58	5:04:34	5/18/2009	5:10:26	5:10:30	0:00:04	5/18/2009	5:10:30	5:10:34	0:00:04
409	517202647	5/17/2009	23:06:24	5/18/2009	3:57:06	4:50:42	5/18/2009	5:10:34	5:10:39	0:00:05	5/18/2009	5:10:39	5:10:42	0:00:03
410	517202648	5/17/2009	23:06:20	5/18/2009	3:32:35	4:26:15	5/18/2009	5:10:42	5:10:47	0:00:05	5/18/2009	5:10:47	5:10:51	0:00:04
411	517202649	5/17/2009	23:06:21	5/18/2009	4:10:10	5:03:49	5/18/2009	5:10:51	5:10:56	0:00:05	5/18/2009	5:10:56	5:11:00	0:00:04
412	517202650	5/17/2009	23:06:21	5/18/2009	3:32:41	4:26:20	5/18/2009	5:11:00	5:11:04	0:00:04	5/18/2009	5:11:04	5:11:08	0:00:04
413	517202651	5/17/2009	23:06:23	5/18/2009	3:57:28	4:51:05	5/18/2009	5:11:08	5:11:12	0:00:04	5/18/2009	5:11:12	5:11:16	0:00:04
414	517202652	5/17/2009	23:06:25	5/18/2009	3:57:30	4:51:05	5/18/2009	5:11:16	5:11:21	0:00:05	5/18/2009	5:11:21	5:11:25	0:00:04
415	517202653	5/17/2009	23:06:23	5/18/2009	3:57:16	4:50:53	5/18/2009	5:11:25	5:11:30	0:00:05	5/18/2009	5:11:30	5:11:33	0:00:03
416	517202654	5/17/2009	23:06:23	5/18/2009	3:57:13	4:50:50	5/18/2009	5:11:33	5:11:39	0:00:06	5/18/2009	5:11:39	5:11:42	0:00:03
417	517202655	5/17/2009	23:06:23	5/18/2009	3:33:06	4:26:43	5/18/2009	5:11:42	5:11:48	0:00:06	5/18/2009	5:11:48	5:11:51	0:00:03
418	517202656	5/17/2009	23:06:24	5/18/2009	3:33:45	4:27:21	5/18/2009	5:11:51	5:11:57	0:00:06	5/18/2009	5:11:57	5:12:00	0:00:03
419	517202657	5/17/2009	23:06:25	5/18/2009	3:59:29	4:53:04	5/18/2009	5:12:00	5:12:05	0:00:05	5/18/2009	5:12:05	5:12:08	0:00:03
420	517202658	5/17/2009	23:06:26	5/18/2009	4:10:42	5:04:16	5/18/2009	5:12:08	5:12:13	0:00:05	5/18/2009	5:12:13	5:12:17	0:00:04
421	517202659	5/17/2009	23:06:25	5/18/2009	3:33:30	4:27:05	5/18/2009	5:12:17	5:12:23	0:00:06	5/18/2009	5:12:23	5:12:26	0:00:03
422	517202660	5/17/2009	23:06:25	5/18/2009	3:57:39	4:51:14	5/18/2009	5:12:26	5:12:32	0:00:06	5/18/2009	5:12:32	5:12:35	0:00:03
423	517202661	5/17/2009	23:06:25	5/18/2009	3:58:16	4:51:51	5/18/2009	5:12:35	5:12:41	0:00:06	5/18/2009	5:12:41	5:12:44	0:00:03
424	517202662	5/17/2009	23:06:25	5/18/2009	3:57:41	4:51:16	5/18/2009	5:12:44	5:12:51	0:00:07	5/18/2009	5:12:51	5:12:54	0:00:03
425	517202663	5/17/2009	23:06:25	5/18/2009	3:57:24	4:50:59	5/18/2009	5:12:54	5:13:00	0:00:06	5/18/2009	5:13:00	5:13:03	0:00:03
426	517202664	5/17/2009	23:06:25	5/18/2009	3:57:58	4:51:33	5/18/2009	5:13:03	5:13:09	0:00:06	5/18/2009	5:13:09	5:13:12	0:00:03
427	517202665	5/17/2009	23:06:26	5/18/2009	4:00:34	4:54:08	5/18/2009	5:13:12	5:13:17	0:00:05	5/18/2009	5:13:17	5:13:20	0:00:03
428	517202666	5/17/2009	23:06:26	5/18/2009	4:10:23	5:03:57	5/18/2009	5:13:20	5:13:26	0:00:06	5/18/2009	5:13:26	5:13:29	0:00:03
429	517202667	5/17/2009	23:06:26	5/18/2009	3:59:29	4:53:03	5/18/2009	5:13:29	5:13:35	0:00:06	5/18/2009	5:13:35	5:13:38	0:00:03
430	517202668	5/17/2009	23:06:26	5/18/2009	3:34:02	4:27:36	5/18/2009	5:13:38	5:13:44	0:00:06	5/18/2009	5:13:44	5:13:47	0:00:03
431	517202669	5/17/2009	23:06:26	5/18/2009	3:37:55	4:31:29	5/18/2009	5:13:47	5:13:52	0:00:05	5/18/2009	5:13:52	5:13:56	0:00:04
432	517202670	5/17/2009	23:06:27	5/18/2009	3:58:16	4:51:49	5/18/2009	5:13:56	5:14:01	0:00:05	5/18/2009	5:14:01	5:14:04	0:00:03
433	517202671	5/17/2009	23:06:26	5/18/2009	3:58:17	4:51:51	5/18/2009	5:14:04	5:14:10	0:00:06	5/18/2009	5:14:10	5:14:13	0:00:03
434	517202672	5/17/2009	23:06:27	5/18/2009	4:01:04	4:54:37	5/18/2009	5:14:13	5:14:18	0:00:05	5/18/2009	5:14:18	5:14:22	0:00:04
435	517202673	5/17/2009	23:06:27	5/18/2009	3:38:17	4:31:50	5/18/2009	5:14:22	5:14:27	0:00:05	5/18/2009	5:14:27	5:14:30	0:00:03
436	517202674	5/17/2009	23:06:27	5/18/2009	4:10:23	5:03:56	5/18/2009	5:14:30	5:14:36	0:00:06	5/18/2009	5:14:36	5:14:38	0:00:02
437	517202675	5/17/2009	23:06:27	5/18/2009	3:58:34	4:52:07	5/18/2009	5:14:38	5:14:43	0:00:05	5/18/2009	5:14:43	5:14:47	0:00:04
438	517202676	5/17/2009	23:06:27	5/18/2009	3:36:45	4:30:18	5/18/2009	5:14:47	5:14:52	0:00:05	5/18/2009	5:14:52	5:14:55	0:00:03
439	517202677	5/17/2009	23:06:27	5/18/2009	3:34:33	4:28:06	5/18/2009	5:14:55	5:15:00	0:00:05	5/18/2009	5:15:00	5:15:04	0:00:04
440	517202678	5/17/2009	23:06:27	5/18/2009	4:01:17	4:54:50	5/18/2009	5:15:04	5:15:09	0:00:05	5/18/2009	5:15:09	5:15:12	0:00:03
441	517202679	5/17/2009	23:06:27	5/18/2009	3:58:35	4:52:08	5/18/2009	5:15:12	5:15:17	0:00:05	5/18/2009	5:15:17	5:15:20	0:00:03
442	517202680	5/17/2009	23:06:27	5/18/2009	3:35:22	4:28:55	5/18/2009	5:15:20	5:15:26	0:00:06	5/18/2009	5:15:26	5:15:29	0:00:03
443	517202681	5/17/2009	23:06:27	5/18/2009	3:36:39	4:30:12	5/18/2009	5:15:29	5:15:33	0:00:04	5/18/2009	5:15:33	5:15:37	0:00:04
444	517202682	5/17/2009	23:06:28	5/18/2009	4:00:46	4:54:18	5/18/2009	5:15:37	5:15:41	0:00:04	5/18/2009	5:15:41	5:15:45	0:00:04
445	517202683	5/17/2009	23:06:28	5/18/2009	3:03:52	3:57:24	5/18/2009	5:15:45	5:15:50	0:00:05	5/18/2009	5:15:50	5:15:54	0:00:04
446	517202684	5/17/2009	23:06:27	5/18/2009	3:59:15	4:52:48	5/18/2009	5:15:54	5:15:59	0:00:05	5/18/2009	5:15:59	5:16:02	0:00:03
447	517202685	5/17/2009	23:06:28	5/18/2009	3:58:34	4:52:06	5/18/2009	5:16:02	5:16:07	0:00:05	5/18/2009	5:16:07	5:16:11	0:00:04
448	517202686	5/17/2009	23:06:28	5/18/2009	3:38:03	4:31:35	5/18/2009	5:16:11	5:16:16	0:00:05	5/18/2009	5:16:16	5:16:19	0:00:03
449	517202687	5/17/2009	23:06:28	5/18/2009	4:10:58	5:04:30	5/18/2009	5:16:19	5:16:25	0:00:06	5/18/2009	5:16:25	5:16:28	0:00:03
450	517202688	5/17/2009	23:06:28	5/18/2009	3:58:53	4:52:25	5/18/2009	5:16:28	5:16:33	0:00:05	5/18/2009	5:16:33	5:16:36	0:00:03



**HP BladeSystem c-Class 128P RAC  
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**Report Date:  
June 3, 2009**

**Duration of Stream Execution**

451	517202689	5/17/2009	23:06:28	5/18/2009	3:34:23	4:27:55	5/18/2009	5:16:36	5:16:41	0:00:05	5/18/2009	5:16:41	5:16:44	0:00:03
452	517202690	5/17/2009	23:06:28	5/18/2009	4:13:20	5:06:52	5/18/2009	5:16:44	5:16:49	0:00:05	5/18/2009	5:16:49	5:16:52	0:00:03
453	517202691	5/17/2009	23:06:28	5/18/2009	3:58:19	4:51:51	5/18/2009	5:16:52	5:16:57	0:00:05	5/18/2009	5:16:57	5:17:00	0:00:03
454	517202692	5/17/2009	23:06:28	5/18/2009	4:00:05	4:53:37	5/18/2009	5:17:00	5:17:05	0:00:05	5/18/2009	5:17:05	5:17:08	0:00:03
455	517202693	5/17/2009	23:06:28	5/18/2009	4:00:20	4:53:52	5/18/2009	5:17:08	5:17:13	0:00:05	5/18/2009	5:17:13	5:17:17	0:00:04
456	517202694	5/17/2009	23:06:28	5/18/2009	4:10:23	5:03:55	5/18/2009	5:17:17	5:17:22	0:00:05	5/18/2009	5:17:22	5:17:25	0:00:03
457	517202695	5/17/2009	23:06:28	5/18/2009	4:13:20	5:06:52	5/18/2009	5:17:25	5:17:31	0:00:06	5/18/2009	5:17:31	5:17:34	0:00:03
458	517202696	5/17/2009	23:06:28	5/18/2009	3:38:04	4:31:36	5/18/2009	5:17:34	5:17:39	0:00:05	5/18/2009	5:17:39	5:17:42	0:00:03
459	517202697	5/17/2009	23:06:28	5/18/2009	3:58:59	4:52:31	5/18/2009	5:17:42	5:17:48	0:00:06	5/18/2009	5:17:48	5:17:51	0:00:03
460	517202698	5/17/2009	23:06:28	5/18/2009	3:37:03	4:30:35	5/18/2009	5:17:51	5:17:56	0:00:05	5/18/2009	5:17:56	5:17:59	0:00:03
461	517202699	5/17/2009	23:06:28	5/18/2009	4:10:51	5:04:23	5/18/2009	5:17:59	5:18:05	0:00:06	5/18/2009	5:18:05	5:18:08	0:00:03
462	517202700	5/17/2009	23:06:28	5/18/2009	3:07:06	4:00:38	5/18/2009	5:18:08	5:18:14	0:00:06	5/18/2009	5:18:14	5:18:17	0:00:03
463	517202701	5/17/2009	23:06:28	5/18/2009	3:59:15	4:52:47	5/18/2009	5:18:17	5:18:23	0:00:06	5/18/2009	5:18:23	5:18:27	0:00:04
464	517202702	5/17/2009	23:06:28	5/18/2009	3:38:52	4:32:24	5/18/2009	5:18:27	5:18:32	0:00:05	5/18/2009	5:18:32	5:18:35	0:00:03
465	517202703	5/17/2009	23:06:28	5/18/2009	3:59:21	4:52:53	5/18/2009	5:18:35	5:18:41	0:00:06	5/18/2009	5:18:41	5:18:44	0:00:03
466	517202704	5/17/2009	23:06:28	5/18/2009	3:35:13	4:28:45	5/18/2009	5:18:44	5:18:50	0:00:06	5/18/2009	5:18:50	5:18:53	0:00:03
467	517202705	5/17/2009	23:06:28	5/18/2009	3:59:15	4:52:47	5/18/2009	5:18:53	5:18:59	0:00:06	5/18/2009	5:18:59	5:19:02	0:00:03
468	517202706	5/17/2009	23:06:28	5/18/2009	4:00:48	4:54:20	5/18/2009	5:19:02	5:19:08	0:00:06	5/18/2009	5:19:08	5:19:11	0:00:03
469	517202707	5/17/2009	23:06:28	5/18/2009	4:13:20	5:06:52	5/18/2009	5:19:11	5:19:16	0:00:05	5/18/2009	5:19:16	5:19:20	0:00:04
470	517202708	5/17/2009	23:06:28	5/18/2009	3:37:21	4:30:53	5/18/2009	5:19:20	5:19:25	0:00:05	5/18/2009	5:19:25	5:19:28	0:00:03
471	517202709	5/17/2009	23:06:28	5/18/2009	3:35:15	4:28:47	5/18/2009	5:19:28	5:19:34	0:00:06	5/18/2009	5:19:34	5:19:37	0:00:03
472	517202710	5/17/2009	23:06:28	5/18/2009	3:37:37	4:31:09	5/18/2009	5:19:37	5:19:43	0:00:06	5/18/2009	5:19:43	5:19:46	0:00:03
473	517202711	5/17/2009	23:06:28	5/18/2009	3:59:41	4:53:13	5/18/2009	5:19:46	5:19:51	0:00:05	5/18/2009	5:19:51	5:19:54	0:00:03
474	517202712	5/17/2009	23:06:28	5/18/2009	3:38:54	4:32:26	5/18/2009	5:19:54	5:19:59	0:00:05	5/18/2009	5:19:59	5:20:03	0:00:04
475	517202713	5/17/2009	23:06:28	5/18/2009	4:01:04	4:54:36	5/18/2009	5:20:03	5:20:07	0:00:04	5/18/2009	5:20:07	5:20:11	0:00:04
476	517202714	5/17/2009	23:06:28	5/18/2009	3:58:56	4:52:28	5/18/2009	5:20:11	5:20:16	0:00:05	5/18/2009	5:20:16	5:20:20	0:00:04
477	517202715	5/17/2009	23:06:28	5/18/2009	3:35:36	4:29:08	5/18/2009	5:20:20	5:20:25	0:00:05	5/18/2009	5:20:25	5:20:28	0:00:03
478	517202716	5/17/2009	23:06:28	5/18/2009	3:35:29	4:29:01	5/18/2009	5:20:28	5:20:33	0:00:05	5/18/2009	5:20:33	5:20:37	0:00:04
479	517202717	5/17/2009	23:06:28	5/18/2009	4:00:50	4:54:22	5/18/2009	5:20:37	5:20:42	0:00:05	5/18/2009	5:20:42	5:20:46	0:00:04
480	517202718	5/17/2009	23:06:29	5/18/2009	3:35:57	4:29:28	5/18/2009	5:20:46	5:20:51	0:00:05	5/18/2009	5:20:51	5:20:54	0:00:03
481	517202719	5/17/2009	23:06:29	5/18/2009	3:37:47	4:31:18	5/18/2009	5:20:54	5:20:59	0:00:05	5/18/2009	5:20:59	5:21:03	0:00:04
482	517202720	5/17/2009	23:06:29	5/18/2009	3:59:29	4:53:00	5/18/2009	5:21:03	5:21:09	0:00:06	5/18/2009	5:21:09	5:21:12	0:00:03
483	517202721	5/17/2009	23:06:28	5/18/2009	3:37:21	4:30:53	5/18/2009	5:21:12	5:21:17	0:00:05	5/18/2009	5:21:17	5:21:20	0:00:03
484	517202722	5/17/2009	23:06:29	5/18/2009	3:07:24	4:00:55	5/18/2009	5:21:20	5:21:26	0:00:06	5/18/2009	5:21:26	5:21:29	0:00:03
485	517202723	5/17/2009	23:06:29	5/18/2009	4:10:58	5:04:29	5/18/2009	5:21:29	5:21:35	0:00:06	5/18/2009	5:21:35	5:21:38	0:00:03
486	517202724	5/17/2009	23:06:29	5/18/2009	3:36:29	4:30:00	5/18/2009	5:21:38	5:21:44	0:00:06	5/18/2009	5:21:44	5:21:47	0:00:03
487	517202725	5/17/2009	23:06:29	5/18/2009	4:00:20	4:53:51	5/18/2009	5:21:47	5:21:53	0:00:06	5/18/2009	5:21:53	5:21:56	0:00:03
488	517202726	5/17/2009	23:06:29	5/18/2009	3:59:57	4:53:28	5/18/2009	5:21:56	5:22:02	0:00:06	5/18/2009	5:22:02	5:22:05	0:00:03
489	517202727	5/17/2009	23:06:29	5/18/2009	4:01:18	4:54:49	5/18/2009	5:22:05	5:22:11	0:00:06	5/18/2009	5:22:11	5:22:14	0:00:03
490	517202728	5/17/2009	23:06:29	5/18/2009	3:59:53	4:53:24	5/18/2009	5:22:14	5:22:20	0:00:06	5/18/2009	5:22:20	5:22:23	0:00:03
491	517202729	5/17/2009	23:06:29	5/18/2009	3:59:41	4:53:12	5/18/2009	5:22:23	5:22:28	0:00:05	5/18/2009	5:22:28	5:22:32	0:00:04
492	517202730	5/17/2009	23:06:29	5/18/2009	4:00:04	4:53:35	5/18/2009	5:22:32	5:22:37	0:00:05	5/18/2009	5:22:37	5:22:40	0:00:03
493	517202731	5/17/2009	23:06:29	5/18/2009	4:10:41	5:04:12	5/18/2009	5:22:40	5:22:45	0:00:05	5/18/2009	5:22:45	5:22:49	0:00:04
494	517202732	5/17/2009	23:06:29	5/18/2009	4:10:38	5:04:09	5/18/2009	5:22:49	5:22:53	0:00:04	5/18/2009	5:22:53	5:22:56	0:00:03
495	517202733	5/17/2009	23:06:29	5/18/2009	4:10:59	5:04:30	5/18/2009	5:22:56	5:23:01	0:00:05	5/18/2009	5:23:01	5:23:04	0:00:03
496	517202734	5/17/2009	23:06:29	5/18/2009	4:10:50	5:04:21	5/18/2009	5:23:04	5:23:10	0:00:06	5/18/2009	5:23:10	5:23:14	0:00:04
497	517202735	5/17/2009	23:06:29	5/18/2009	3:36:26	4:29:57	5/18/2009	5:23:14	5:23:19	0:00:05	5/18/2009	5:23:19	5:23:23	0:00:04
498	517202736	5/17/2009	23:06:29	5/18/2009	4:00:34	4:54:05	5/18/2009	5:23:23	5:23:28	0:00:05	5/18/2009	5:23:28	5:23:32	0:00:04



**HP BladeSystem c-Class 128P RAC  
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Report Date:  
**June 3, 2009**

**Timing Intervals (in seconds)**

Stream	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
0	10.3	1.8	2.4	0.8	6.8	1	7	5.2	24.3	4.2	6.4	3.8
1	0.1	1798	1907	0.1	1707.1	0.1	0.1	1876.3	0.1	0.1	1696.6	0.1
2	0.1	1974.1	0.1	0.1	0.1	64.4	0.1	1880.2	0.1	0.1	9.5	1863.3
3	0.1	1847.9	0.1	1691.9	1910.2	1682.2	1998.1	136.2	0.1	0.1	4	0.1
4	0.1	1863.9	0.4	0.1	101.7	0.1	0.1	1864.9	2008.8	0.2	2.6	1676.1
5	0.1	1869.7	0.1	0.1	0.1	0.1	1730.8	1804.5	0.1	0.1	3.2	0.1
6	0.1	1857.1	1926.1	0.1	0.1	1687.4	1692.5	1692.6	0.1	101.3	7.1	1862
7	0.1	1680.8	0.1	0.1	0.1	0.1	1807.8	1913.4	0.1	0.1	4.2	1782.4
8	1896.4	1380.6	0.1	0.1	0.1	0.1	1881.6	1689.3	0.1	0.1	2.3	1964.6
9	0.1	1694.6	1993.6	0.1	0.1	0.1	1868.9	101.7	0.1	0.1	5.8	0.1
10	1679.4	1874.2	0.1	0.1	0.1	85.1	1975.8	578.2	0.1	0.1	2.8	1682.7
11	0.1	1800.6	0.1	0.1	0.1	0.1	572.5	1880.6	0.1	1682.9	8.5	1860
12	130.5	0.1	0.1	0.4	0.1	0.1	1916.1	1879.4	0.1	0.1	5	2001.4
13	1669.8	1867.4	1686.8	0.4	0.1	0.1	1704.3	1804	0.1	0.1	5.4	1976.6
14	0.1	80.5	0.1	1688.4	1683.2	0.1	1802.4	1796.7	1938.3	0.1	11.2	555.1
15	0.1	1799.1	0.1	0.1	0.1	0.1	1977.1	1698.1	1937	0.1	4.3	1680.9
16	130	1693.3	1903	0.1	0.1	1705	1799.3	1796.4	0.1	0.1	4.4	0.1
17	0.1	1667.7	136.3	0.1	0.1	0.1	1879.7	1812.3	1720.5	0.1	1702.1	0.1
18	0.1	1972.4	0.1	1920.9	0.1	1667.8	1799.1	1689.5	0.1	0.1	1695.7	1856.6
19	0.1	1673.6	0.1	111.1	0.1	0.1	1809.3	1998.2	1853	0.1	5.5	1921
20	0.1	1862.8	0.1	0.1	0.1	0.2	1686.7	1799.3	0.1	0.1	2.5	1999.5
21	0.1	1849.9	0.1	0.1	0.1	0.1	0.1	1892.2	0.1	0.1	2.3	1720.2
22	0.1	1694.1	0.1	0.1	0.1	0.1	0.1	1814.2	0.1	1687	8.7	1997.1
23	0.1	1685.6	0.1	0.1	0.1	0.1	0.1	1979.2	1726.6	0.1	3.1	1686.1
24	0.1	1875.5	1891.2	0.1	0.1	0.1	200.8	1670.4	0.1	1679.7	3.9	1818.7
25	1882.1	1994	0.1	0.1	0.1	0.1	1697.8	1857.5	0.1	1663.5	2.3	0.1
26	0.1	1911.7	0.1	0.1	0.1	0.1	1992.5	1802.2	0.1	0.1	1677.9	1856.9
27	0.1	0.1	0.1	1702.3	0.1	0.1	0.1	1687.5	0.1	0.1	3.5	1886.8
28	0.1	1667.4	1878.9	0.1	0.1	0.1	0.1	1800.7	0.1	199	4.2	1673.7
29	1705.8	1778.7	0.1	0.1	0.1	0.1	0.1	1876.3	1722.1	219.3	2.7	1671.3
30	0.1	1774	1662.7	0.1	0.1	0.1	278.7	1826.6	0.1	0.1	4.7	1869.2
31	0.1	164.6	1688.8	1687.9	0.1	0.1	1671.4	1863.7	1918	0.1	4.3	0.1
32	0.1	0.1	0.1	1663	0.1	0.1	0.1	1719.7	0.1	0.1	4	1863.7
33	0.1	1718.1	0.1	0.1	0.1	0.1	0.1	1826.7	0.1	0.1	1659	1887.4
34	255.1	537.5	0.1	0.1	0.1	1655.2	0.1	1778.3	0.1	0.1	1729.2	1874.4
35	0.1	1875.4	0.1	0.1	0.1	0.1	0.1	1681.9	0.1	0.1	2.5	0.1
36	0.1	1789.3	1676.6	0.1	1676.8	0.1	1698.1	1852.3	218.3	0.1	4.1	0.1
37	0.1	1842	0.1	0.1	1656.2	0.1	0.1	2038.7	0.1	0.1	4.8	0.1
38	1680	1852.1	0.1	1715.1	1838.3	0.1	0.1	1884.8	0.1	0.1	10.1	0.1
39	0.1	1773.7	244.1	0.1	0.1	0.1	1868.1	1878.6	0.1	0.1	7.9	1815.9
40	0.1	1807.4	1680.5	0.1	0.1	0.1	0.1	1888.5	0.1	0.1	2.4	0.1
41	0.1	1871.2	0.1	0.1	0.1	0.1	0.1	1689.6	1729.5	0.1	6.2	0.1
42	0.1	1875.4	1861.3	0.1	1680.3	0.1	1701.4	1821.9	0.1	0.1	5.4	0.1
43	0.1	1982.9	0.1	0.1	0.1	367.1	0.1	1892.8	1715.4	0.1	13.5	0.1
44	0.1	1766.1	0.1	0.1	1756.7	0.1	1637.6	556.5	2038	0.1	16.1	1232.4
45	0.1	1840.9	0.1	0.1	672.3	0.1	0.1	1788.3	0.1	0.1	2.2	1653
46	0.1	1803.6	1888.5	0.1	0.1	0.1	1739.5	1854.4	0.1	0.1	6.2	0.2
47	0.1	0.1	1863.5	0.1	0.1	1665.8	1990.2	1680.2	0.1	243.8	6.5	0.1
48	0.1	1662.5	0.1	0.1	0.1	0.1	1874	1877.2	0.1	0.1	2.6	0.1
49	1790.8	1837.4	0.1	0.1	0.1	0.1	0.1	1647.1	1831.2	0.1	7.9	0.1
50	0.1	1712	1992.6	0.1	0.1	0.1	0.1	334.9	0.1	0.1	6.5	0.1





**HP BladeSystem c-Class 128P RAC  
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TPC-H Rev. 2.8.0

**Report Date:  
June 3, 2009**

**Timing Intervals (in seconds)**

51	1672.4	1975.1	0.1	0.1	0.1	385.6	1711.6	1284.6	0.1	0.1	10	0.1
52	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2044.6	0.1	0.1	2.3	0.1
53	291	1823.3	0.1	0.1	0.1	0.1	1840.4	1878.8	0.1	0.1	8.2	1980.3
54	0.1	1876.8	0.1	0.1	0.1	0.1	1712.7	1819.1	0.1	0.1	2.3	1660.8
55	0.1	332.6	0.1	1643.6	1701.1	0.1	0.1	1857.6	1859.9	0.1	3.5	0.1
56	0.1	524.1	1818.8	0.1	0.1	0.1	1867.2	1652.8	1856.8	0.1	1693.5	1976.1
57	416	1675.5	1848.5	0.1	0.1	1674.9	0.1	1855.6	0.1	0.1	3.6	0.1
58	0.1	1826.1	893.1	0.1	0.1	0.1	1809.1	1788.4	1662.8	0.1	1631.3	0.1
59	0.1	1884	0.1	1850.9	1680.8	1701.7	0.1	1664	0.1	0.1	3.2	1765.6
60	0.1	1703.5	1778.6	386	0.1	0.1	0.1	1990.1	0.1	0.1	4.1	1867.5
61	0.1	1785.1	0.1	0.1	0.1	0.2	0.1	1862.8	0.1	0.1	7.4	2007.4
62	0.1	0.1	1828.8	0.1	0.1	0.1	0.1	1810.8	0.1	0.1	4	1660.7
63	0.1	1711.9	0.1	0.1	0.1	0.1	0.1	1899.3	0.1	0.1	3.5	1696.4
64	0.1	2020.9	0.1	0.1	0.1	0.1	0.1	1862.3	1700.1	0.1	6.3	1704.3
65	0.1	1810.8	1768.6	0.1	0.1	0.1	1061.3	1825.7	0.1	0.1	9.2	1806.5
66	1782.9	1707	0.1	0.1	0.1	0.1	1688.3	1777.6	0.1	0.1	8.3	0.1
67	0.1	1852	0.1	1682.5	0.1	0.1	0.1	1894.7	0.1	0.1	5.1	1788.1
68	0.1	1666.6	1887	1676	0.1	0.1	0.1	1712.5	0.1	0.1	2.1	1840.8
69	0.1	1820.2	1804.7	0.1	0.1	0.1	0.1	1713.8	0.1	850.1	10.5	1629.9
70	0.1	1710.8	0.1	0.1	0.1	1815.9	0.1	1730.8	1671.1	895.5	4.6	1638.5
71	0.1	1844.8	1617.8	0.1	0.1	0.1	1063.6	1815.8	0.1	0.1	3.3	0.1
72	0.1	699.1	1789	1645.3	0.1	0.1	1646.5	1787.6	0.1	0.1	5.1	0.1
73	0.1	1844.6	0.1	1622.3	0.1	0.1	0.1	1654.3	0.1	0.1	2.7	1701.7
74	0.1	1639.4	0.1	0.1	0.1	0.1	0.1	1796.2	1987	0.1	4.1	1803.1
75	848.2	365.7	1624.4	1666.1	0.1	0.1	0.1	1713.3	1988.7	0.1	1746.9	1792.1
76	0.1	1835.7	0.1	0.1	0.1	0.1	0.1	1730.4	0.1	0.1	2.9	0.1
77	0.1	1837.5	1640.9	0.1	1619.8	0.1	0.1	1787.4	763.5	0.1	5.3	1732
78	0.1	1855.5	0.1	0.1	1639.9	0.1	0.1	2034.4	0.1	0.1	2.4	0.1
79	1841.2	1847	0.1	1677.1	1700.8	0.1	0.1	1773.9	0.1	0.1	1642.4	0.1
80	0.1	1561.8	1279.3	0.1	0.1	0.1	1708.4	1796	0.1	0.1	2.4	0.1
81	0.1	0.1	2026.8	0.1	0.1	0.1	0.1	1866.1	1768.2	0.1	1704.6	0.1
82	0.1	1746.7	0.1	0.1	0.1	0.1	0.1	2009.7	1708.1	0.1	4.6	1665
83	0.1	1781.8	1750.6	0.1	1641.9	0.1	0.1	1841.1	0.1	0.1	1647.1	0.1
84	0.1	1789.4	0.1	0.1	0.1	1155.5	0.1	1812.4	2000.7	0.1	4.3	0.1
85	1810.8	1784	0.1	1727.9	0.1	0.1	1655.8	802.1	0.1	0.1	2.2	0.1
86	0.1	1782.2	0.2	0.1	417.8	0.1	0.1	2002.5	0.1	0.1	2.6	1701
87	0.1	1859.7	1778.1	0.1	0.1	1675	1683	1767.5	0.1	0.1	6.4	0.1
88	0.1	1790.8	1710.7	0.1	0.1	1629.1	1824.4	1674	0.1	884.7	4	0.1
89	0.1	1657.6	0.1	0.1	0.1	0.1	0.1	1797	0.1	0.1	6.6	1850.1
90	1784.8	1734.7	0.1	0.1	0.1	0.1	0.1	1650.7	1740.3	0.1	3.2	2012.3
91	0.1	1639.5	0.1	0.1	0.1	0.1	0.1	784.9	0.1	0.1	3	0.1
92	0.1	2005.9	0.1	0.1	0.1	1149.6	1839.8	1026.8	0.1	0.1	2.4	1618.2
93	0.1	1798.7	0.1	0.1	0.1	0.1	0.1	1814.3	0.1	0.1	8	1802.7
94	923.2	1794.2	0.1	0.1	0.1	0.1	1706.1	1810.9	0.1	0.1	3.6	1992.6
95	0.1	1793.2	0.1	0.1	0.1	0.1	1662.4	1859	0.1	1619	2.7	1725.6
96	0.1	753.1	0.1	1634	1619.1	0.1	0.1	1850.3	1773.5	0.1	6.4	1162.4
97	0.1	1239.9	0.1	0.1	0.1	0.1	1851.8	1646.3	1798.7	0.1	1694.6	2039.4
98	579.3	1692.1	1768.8	0.1	0.1	0.1	0.1	1865.6	0.1	0.1	2.3	0.1
99	0.1	1805.2	1291.8	0.1	0.1	0.1	1787.4	1803.1	1671.3	0.1	1678.7	0.1
100	0.1	2041.3	0.1	1762.4	1649.5	0.1	0.1	1651.2	0.1	0.1	2.3	0.1





**HP BladeSystem c-Class 128P RAC  
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TPC-H Rev. 2.8.0

**Report Date:  
June 3, 2009**

**Timing Intervals (in seconds)**

101	0.1	1705.3	1758.8	563.6	0.1	0.1	0.1	2044.7	0.1	0.1	11.1	1781.7
102	0.1	1735.6	1835.2	0.1	0.1	0.1	1789.3	1175.7	0.1	0.1	7.6	1985.5
103	0.1	1837.2	0.1	0.1	0.1	0.1	0.1	1815.3	0.1	0.1	2.5	1668.6
104	0.1	1710.5	0.1	0.1	0.1	0.1	1840.7	1776.3	0.1	0.1	2.8	1706.5
105	0.1	2010	0.1	0.1	0.1	0.1	0.1	1802.2	1694.7	0.1	4	1819.9
106	0.1	1809.6	1739.8	0.1	0.1	1610.7	1098.1	2004.1	0.1	0.1	7.9	1846.6
107	1785.5	1627.9	0.1	0.1	0.1	0.1	0.1	1844.1	0.1	0.1	3.3	0.1
108	0.1	1721.8	0.1	1994.1	0.1	0.1	0.1	1787.2	0.1	0.1	1613.8	1861.7
109	0.1	1589.4	0.1	1822	0.1	0.1	0.1	1695.6	0.1	0.1	2.3	1800.7
110	0.1	1744.4	1833.3	0.1	0.1	0.1	0.1	1737.6	0.1	635.8	6.8	1660.7
111	1619.5	0.1	0.1	0.1	0.1	0.1	0.1	1715.8	1683.3	1150.3	2.2	0.1
112	0.1	1628.2	1618.6	0.1	0.1	0.1	1063.9	1807.1	0.1	0.1	3.7	1810.1
113	0.1	651	0.1	1665.8	0.1	0.1	0.1	1791.5	1770.4	0.1	1645.8	0.1
114	0.1	1743.8	1857	0.1	0.1	0.1	0.1	1706.8	0.1	0.1	4.5	1778.3
115	0.1	1697.6	0.1	0.1	0.1	0.1	1847.3	1798.2	0.1	0.1	2.3	1792.9
116	1020.6	0.1	0.1	1614.8	0.1	0.1	2009	1065.1	0.1	0.1	1660.6	1810.3
117	0.1	1857	0.1	0.1	0.1	0.1	0.1	1704.8	0.1	0.1	3.7	0.1
118	0.1	0.1	1742.1	0.1	1641.4	0.1	1676.1	1858.8	634.6	0.1	2.6	0.1
119	0.1	1856.3	0.1	0.1	1656.2	0.1	0.1	2039.9	0.1	0.1	3.8	0.1
120	1789.1	1658.8	1834.3	1646.9	1773.9	0.1	0.1	1816.9	0.1	0.1	14.2	0.1
121	0.1	1647.8	975.8	0.1	0.1	0.1	1775.8	1816.3	0.1	0.1	2.9	0.1
122	0.1	1837.3	0.1	0.1	0.1	0.1	1991.6	1801.7	0.1	0.1	1794.1	0.1
123	0.1	1769.8	0.1	0.1	0.1	1638.2	0.1	2046.4	0.2	0.1	2.7	0.1
124	0.1	1775.4	1737.8	0.1	1631	0.1	0.1	1837.6	0.1	0.1	1657.7	0.1
125	0.1	2011.8	0.1	0.1	0.1	1155.4	0.1	1793.9	1857.2	0.1	4.5	1861.5
126	0.1	1797.3	0.1	0.1	1722	1687.5	1825.6	915.4	0.1	0.1	2.4	0.1
127	0.1	1706.7	0.1	0.1	797.7	0.1	0.1	1783.9	1853.5	0.1	2.3	1965.2
128	0.5	1796.1	1814.4	1675.7	0.1	0.1	0.1	1847.3	0.1	0.1	5.4	0.1
129	0.1	1809.8	1742.7	0.1	0.1	1619.7	0.1	1676.3	0.1	849.5	3.3	0.1
130	0.1	1718.3	0.1	0.1	0.1	0.1	0.1	1897.5	0.1	0.1	12.7	1869.4
131	1804.9	0.1	0.1	0.1	0.1	0.1	0.1	1655.8	1785.6	0.1	3.8	1969
132	0.1	1720.7	0.1	0.1	0.1	0.1	0.1	937.6	0.1	0.1	1827.1	1791.2
133	0.1	1987.6	0.1	0.1	0.1	859.8	1821.3	1138.5	0.1	0.1	3.2	1669.4
134	0.1	1853.7	0.1	0.1	0.1	0.2	0.1	1863.4	0.1	1622.4	2.7	0.1
135	849.3	1777.1	0.1	0.1	0.1	0.1	1735.3	1839.8	0.2	0.1	4.8	1967.7
136	0.1	0.1	0.1	0.1	0.1	0.1	1667.2	1784.6	2030.5	0.1	3.8	1627.7
137	0.1	980.4	0.1	1601.4	1670.5	0.1	0.1	1860.4	1781	0.1	3.3	0.1
138	0.1	1747.6	0.1	0.1	0.1	0.1	2040.8	1630.5	1778.9	0.1	6.6	1716.2
139	885.2	1676.9	0.1	0.1	1626.3	1708.1	0.1	1856.7	0.1	0.1	2.1	0.1
140	0.1	1806.6	976.7	0.1	0.1	0.1	0.1	1828	1607.7	0.1	1698.8	0.1
141	0.1	0.1	0.1	0.1	1654.7	0.1	0.1	1801	0.1	0.1	1653.9	1823.6
142	0.1	1823.6	0.1	945.2	0.1	0.1	0.1	2005.6	0.1	0.1	3.7	1723.1
143	0.1	1754.8	0.1	1612.5	0.1	0.1	0.1	1237.7	0.1	0.1	7.5	1840.6
144	0.1	1535.5	0.1	0.1	0.1	0.1	0.1	1807.6	0.1	0.1	4.8	1705.7
145	0.1	1654.7	0.1	0.1	0.1	0.1	0.1	1842.6	0.1	1648.8	3.9	0.1
146	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2053.7	1711.3	0.1	5.2	1711.9
147	0.1	1804.6	1768.4	0.1	0.1	0.1	1062.8	1831.4	0.1	1655.6	5.4	0.1
148	1886.2	1679.7	0.1	0.1	0.1	0.1	1706.3	1800.3	0.1	0.1	5	0.1
149	0.1	1800	0.1	0.1	0.1	0.1	0.1	1842.1	0.1	0.1	1649.4	1801.8
150	0.1	0.1	0.1	1789.5	0.1	0.1	1845.4	1649.1	1683.5	0.1	5	1829.1



**HP BladeSystem c-Class 128P RAC  
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TPC-H Rev. 2.8.0

Report Date:  
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**Timing Intervals (in seconds)**

151	0.1	1822.3	0.1	0.1	0.1	0.1	1798.9	1698.2	0.1	933.7	3	1676.4
152	1693.9	1772.8	0.1	0.1	0.1	0.1	0.1	1806.9	1709	504.1	7.1	1630.9
153	0.1	1848.9	0.1	0.1	1608.5	0.1	1042.8	1818.3	0.1	0.1	5.8	0.1
154	0.1	634.2	0.1	1654.6	0.1	0.1	1638.1	1798.2	1787	0.1	4.4	0.1
155	0.1	1827.5	0.1	0.1	0.1	0.1	0.1	1658.6	0.1	0.1	2.5	1786.7
156	0.1	1646.3	0.1	0.1	0.1	0.1	1804.7	1814.1	0.1	0.1	4.4	1815.1
157	964.9	49.9	0.1	1602.8	0.1	0.1	2009.6	1079.4	0.1	0.1	1697.7	1807
158	0.1	1848.9	0.1	0.1	0.1	0.1	0.1	1825.5	0.1	0.1	2.4	0.1
159	0.1	1611.7	1827.7	0.1	1653.4	0.1	0.1	1842.7	1136.1	0.1	1636.4	0.6
160	0.1	0.1	0.1	0.1	1629.6	0.1	0.1	1972.1	0.1	0.1	5.4	0.1
161	1638.8	1802.6	0.1	1655.8	1750.2	0.1	0.1	2013.1	0.1	0.1	2.9	1835.6
162	0.1	1579.5	1217.4	0.1	0.1	0.1	1708.5	1797.5	0.1	0.1	2.5	0.1
163	0.1	1786.2	0.1	1785.6	0.1	0.1	0.1	1849.2	0.1	0.1	3.3	0.1
164	0.1	1703	0.1	0.1	0.1	0.1	0.1	1996.5	1687.1	0.1	2.4	0.1
165	0.1	1806.7	0.1	0.1	1706.7	1596.4	0.1	1857.8	0.1	0.1	1704.9	0.1
166	0.1	2014.8	0.1	0.1	0.1	990	0.1	1818.6	1804.1	0.1	6.3	0.1
167	1874.2	1810.9	0.1	0.1	1668.2	0.1	1615.7	1258.3	0.1	0.1	16.4	0.1
168	0.1	1777.3	0.1	0.1	833.2	0.1	0.1	1983	0.1	0.1	3.5	0.1
169	0.1	1800.2	0.1	1628.3	0.1	0.1	1655.6	1840.5	0.1	0.1	2.2	0.1
170	0.1	0.1	1838	0.1	0.1	0.1	1693	1668.3	0.1	321	14.6	0.1
171	0.1	1607.8	0.1	0.1	0.1	0.1	0.1	1738.3	0.1	0.1	2.1	0.1
172	1753.3	0.1	0.1	0.1	0.1	0.1	0.1	1825.6	2005	0.1	9.2	1824
173	0.1	1670.5	0.1	0.1	0.1	1840.9	0.1	1254.6	0.1	0.1	7.3	0.1
174	0.1	1842.6	0.1	0.1	0.1	1226.1	1612.5	1598.4	0.1	0.1	4.2	0.1
175	0.1	1783.8	0.1	0.1	0.1	0.1	0.1	1824.4	0.1	0.1	2.4	1807
176	968.5	1811.5	1653.5	0.1	0.1	0.1	1723.3	2013.1	0.1	0.1	3.6	0.1
177	0.1	1819.1	0.1	0.1	0.1	0.1	1654	1804.4	0.1	0.1	4.3	1621.6
178	0.1	937.3	0.1	1627.2	1658.2	0.1	0.1	1858.1	1741	0.1	4.9	0.1
179	0.1	1155.6	0.1	0.1	0.1	1959.1	1857.6	1672.4	1764.3	0.1	4.7	1807.6
180	1131.1	1624	0.1	0.1	1647.6	1708	0.1	1849.6	0.1	0.1	2.8	0.1
181	0.1	1641.1	1287.1	0.1	0.1	0.1	0.1	2024	1677.3	0.1	3.6	0.1
182	0.1	1813.3	0.1	0.1	1657.2	1998.2	0.1	1825	0.1	0.1	1631.5	1694.3
183	0.1	1819.9	0.1	936.8	0.1	0.1	0.1	2016.1	0.1	0.1	2.3	1702.4
184	0.1	1668.2	1843.6	1648.7	0.1	0.1	1986.4	1062.3	0.1	0.1	3.7	0.1
185	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1806	0.1	0.1	3.5	1663.2
186	0.1	1664	1834.3	1621.9	0.1	0.1	0.1	1806.7	0.2	0.1	2.3	2013.6
187	0.1	1979.9	0.1	0.1	0.1	0.1	0.1	1864.9	1745.7	0.1	2.9	1680.4
188	0.1	1817.9	1739.8	1818.7	0.1	0.1	1098.6	2008.3	0.1	0.1	4.1	0.1
189	0.1	1638.6	0.1	0.1	0.1	0.1	1730.7	1816.3	0.1	0.1	6.4	0.1
190	0.1	1711.8	0.1	0.1	0.1	0.1	2006.7	1790.9	0.1	0.1	1613.3	1854.9
191	0.1	1672.4	1833.4	1811.1	0.1	0.1	0.1	1622.3	0.1	0.1	5.7	0.1
192	0.1	1694.4	1787.2	0.1	0.1	0.1	1883.9	1282.2	0.1	415.2	15.9	1656.7
193	1814.2	1712.6	0.1	0.1	0.1	0.1	0.1	1717.1	1653.8	891.3	2.7	1649.1
194	0.1	1628.7	0.1	0.1	1609.9	0.1	1080.2	1814.1	0.1	0.1	5.1	1806.5
195	0.1	289.1	1714.6	1652.4	0.1	0.1	1683.7	1856.1	1822.5	0.1	2.2	0.1
196	0.1	1843.1	0.1	0.1	0.1	0.1	0.3	1714	0.1	0.1	10.7	1846.3
197	0.1	1667	0.1	0.1	0.1	0.1	1688.9	1804.2	0.1	0.1	5.8	1888.9
198	417.7	490.4	0.1	0.1	0.2	0.1	0.2	1757	2029.5	0.1	1696.6	1780
199	0.1	1873.9	0.1	0.1	0.1	0.1	0.1	1692.7	0.1	0.1	3.4	0.1
200	0.1	1755.4	1699.7	0.1	0.1	0.1	1682.1	1854.2	376.4	0.1	1666.1	0.3



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Report Date:  
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**Timing Intervals (in seconds)**

201	0.1	1850.9	0.1	0.1	1689.8	0.1	1885	1993	0.1	0.1	7.7	0.1
202	1704.1	1855.4	0.1	1667.3	1847.6	0.1	0.1	1872.1	0.1	0.1	3.9	0.1
203	0.1	1010.8	1159.6	0.1	0.1	0.1	1739.5	1811.3	0.1	0.1	11.8	0.1
204	0.1	1863.8	0.1	1690	0.1	0.1	0.1	1809.3	1901	0.1	3.6	0.1
205	0.1	1848.1	0.1	0.1	0.1	0.1	0.1	1986.3	1731.3	0.1	2.3	0.1
206	0.1	1794	1825	0.1	1701	0.1	1646.9	1855.1	0.1	0.1	6.3	0.1
207	0.1	2005	1272.9	0.1	0.1	374.1	0.1	1886.7	1673.3	0.1	2.1	1851.7
208	0.1	1769.7	0.1	0.1	1789	1676	1686.2	565.3	0.1	0.1	4.5	0.1
209	0.1	1852.2	0.1	0.1	415.1	0.1	0.1	1889.4	1995.3	0.1	7.8	1699.4
210	0.1	1780.4	0.1	1668.6	0.1	0.1	1682.9	1858.3	0.1	0.1	4.9	1247.4
211	0.1	1786.3	1866.8	0.1	0.1	1663.2	0.1	1711.8	0.1	386.3	11.8	0.1
212	0.1	1648.9	0.1	0.1	0.1	0.1	0.1	1802.4	0.1	0.1	2.2	0.1
213	1809.3	1850.4	1700.4	0.1	0.1	0.1	0.1	1663	0.1	0.1	6	0.1
214	0.1	1684.1	0.1	0.1	0.1	0.1	0.1	564.8	0.1	0.1	2.3	1772.3
215	0.1	1824.7	0.1	0.1	0.1	889.5	0.1	1704.3	0.1	0.1	10.3	1659.9
216	0.1	1851.3	0.1	0.1	0.1	0.1	0.1	2004.9	0.1	0.1	3.1	1793.2
217	885.9	1804	0.1	0.1	0.1	0.1	1724.1	1998.8	0.1	0.1	2.6	0.1
218	0.1	1862.1	0.1	0.1	0.1	0.1	1687.1	1759.9	1856.9	1661.6	4.6	1705.7
219	1682.4	375.5	0.4	1655.2	1678.5	0.1	0.1	1763.8	1853.6	0.1	2.4	0.1
220	0.1	1849.5	0.1	0.1	0.1	0.1	0.1	1662.5	1878.4	0.1	8.9	1701.3
221	922.6	1641.9	1705.3	0.1	0.1	1655.7	0.1	1858.5	0.1	0.1	5.3	0.1
222	0.1	1606.3	974.8	0.1	0.1	0.1	0.1	2013	0.1	0.1	1700.9	0.1
223	0.1	1980.9	0.1	0.1	1669.3	0.1	0.1	1645.4	0.1	0.1	3.2	1837.4
224	0.1	1844.1	1804.9	1156	0.1	0.1	0.1	2016.3	0.1	0.1	5.4	1731.9
225	0.1	1793.2	0.1	0.1	0.1	0.1	0.1	1847.2	0.1	0.1	4.3	0.1
226	0.1	1518	0.1	0.1	0.1	0.1	1764.9	1826.2	0.1	0.1	3	1679.8
227	0.1	1693.7	0.1	0.1	0.1	0.1	0.1	1781.4	0.1	1660.8	3.5	2039.6
228	0.1	1709.3	0.1	0.1	0.1	0.1	0.1	2058.9	1656.2	0.1	6.5	1643.1
229	0.1	0.1	0.1	1804.1	0.1	1650.3	1042.8	2010.6	0.1	1766.2	2.1	0.1
230	1786.5	1734.2	0.1	0.1	0.1	0.1	1639.9	1803.6	0.1	0.1	8.3	0.1
231	0.1	1786.8	0.1	1735.3	0.1	0.1	0.1	1846.7	0.1	0.1	3.3	1801.1
232	0.1	1647.3	1828.5	0.1	0.1	0.1	0.1	1652	1781.8	0.1	11.9	1843.5
233	0.1	1828.7	1794.8	0.1	0.1	0.1	0.1	1683.7	0.1	948.9	7.2	1695.8
234	1694.8	0.1	0.1	0.1	0.1	0.1	0.1	1790	1673	556.5	11.9	1642
235	1848.6	1607.8	0.1	0.1	1629.2	0.1	1102.3	1805.3	0.1	0.1	5.1	0.1
236	0.1	672	1642.7	0.1	0.1	0.1	1652.8	1859.5	1784.2	0.1	1721.6	0.1
237	0.1	1210.5	0.1	1637.6	0.1	0.1	1792.1	1645.3	0.1	0.1	4.7	1795.4
238	0.1	1699.5	2010.4	0.1	0.1	0.1	0.1	1825.5	0.1	0.1	3.3	0.1
239	884.4	0.1	0.1	0.1	0.1	1675.7	0.1	1713.1	0.1	0.1	1636.8	1807.7
240	0.1	1847.9	0.1	0.1	0.1	0.1	0.1	1825.7	0.1	0.1	4.7	1789.5
241	0.1	1748.6	1701.2	0.1	0.1	0.1	1707	1865.4	533.1	0.1	1644.9	1232.8
242	0.1	1752.4	0.1	0.1	1681.8	0.1	1852.7	2027.1	0.1	0.1	4.3	0.1
243	1799.3	1849.7	0.1	1689.3	1706.4	0.1	0.1	1785.7	0.1	0.1	6.5	1543
244	0.1	0.1	525.1	0.1	0.1	1634.4	1786.3	1775.4	0.1	0.1	2.5	1750.7
245	0.1	1771.4	0.1	0.1	0.1	0.1	0.1	1866	2037.4	0.1	7	0.1
246	0.1	1780	0.1	0.1	0.1	1638.9	0.1	2029.9	0.1	0.1	2.7	0.1
247	0.1	1858.6	1777.4	0.1	1680.6	0.1	0.1	1765.4	0.1	0.1	1646.6	1865
248	0.1	0.1	0.1	0.1	0.1	939.7	0.1	1811	1997.8	0.1	2.6	1848.8
249	1805.8	0.1	0.1	0.1	1706.5	0.1	1693.9	892.1	0.1	0.1	2.6	0.1
250	0.1	1717.5	0.1	0.1	825.4	0.1	0.1	1799.7	1828.4	0.1	4.6	1970.2



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**Timing Intervals (in seconds)**

251	0.1	1769.5	0.1	1679.3	0.1	0.1	1647.2	1864.2	0.1	0.1	2.2	1240.6
252	0.1	1781.3	1790.9	0.1	0.1	1657.2	1731.1	1644.2	0.1	635.8	4.6	0.1
253	0.1	1643.8	0.1	0.1	0.1	0.1	0.1	1804.2	0.1	0.1	4.4	1802.6
254	1786.2	0.1	0.1	0.1	0.1	0.1	1828.1	1672.8	1837.1	0.1	3.6	1966.5
255	0.1	1675.2	0.1	0.1	0.1	0.1	0.1	1000.2	0.1	0.1	2.6	0.1
256	0.1	1819.7	0.1	0.1	0.1	947.1	0.1	1693.8	0.1	0.1	2.4	1627.7
257	1830.6	1803.2	0.1	0.1	0.1	0.1	0.1	2008.3	0.1	0.1	3.2	0.1
258	1013.9	1823.6	0.1	0.1	0.1	0.1	1778.4	2003.6	0.1	0.1	4.5	0.1
259	0.1	0.1	1640.1	0.1	0.1	0.1	1657.8	1801.4	0.1	0.1	2.7	1797
260	1721.6	659.3	1.7	1630.3	1656.2	0.1	0.1	1746.8	1768.3	0.1	7	0.1
261	0.1	1676.7	0.1	0.1	0.1	0.1	0.1	1579.4	1758.7	0.1	1829.5	1998.6
262	764.7	1647.9	1762.4	0.1	0.1	1638.3	0.1	1793.7	0.1	0.1	6.7	0.1
263	0.1	1831.6	1287.5	0.1	1645.7	0.1	0.1	1796.2	1661.4	0.1	2.3	0.1
264	0.1	0.1	0.1	1703.6	1686.4	0.1	0.1	1630.5	0.1	0.1	10	0.1
265	0.1	1819.6	0.1	1155.4	0.1	0.1	0.1	2000.1	0.1	0.1	3.1	1712.9
266	1789.8	1850.7	0.1	0.1	0.1	0.1	0.1	1669.3	0.1	0.1	7.7	1998.5
267	0.1	1516.8	0.1	0.1	0.1	0.1	0.1	1820.1	0.1	0.1	2.9	1681.2
268	0.1	1696.2	0.1	0.1	0.1	0.1	0.1	1790.7	0.1	0.1	1606.8	1997.9
269	0.1	1838	0.1	0.1	0.1	0.1	0.1	2023.8	1709	0.1	4.2	1603.6
270	0.1	1816.4	1706.2	1827.8	0.1	0.1	1132.2	2014.9	0.1	0.1	4.4	0.1
271	14.2	1819.9	0.1	0.1	0.1	0.1	1715.5	1802	0.1	0.1	2.3	0.1
272	0.1	1738.1	1806.9	0.1	0.1	0.1	0.1	1799.2	0.1	0.1	1602.8	1832.6
273	0.1	1600.5	2005.8	0.1	0.1	0.1	0.1	1698	0.1	0.1	2.1	0.1
274	0.1	1820.4	1811.7	0.1	0.1	0.1	0.1	1608.7	0.7	1150.4	4.2	1686.6
275	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1728.9	1668.8	1146.7	2.2	1618
276	1615.7	1579.2	0.1	0.1	0.1	0.1	1221.4	1807.9	0.1	0.1	2.2	1779.6
277	0.1	991.6	1655.6	0.1	0.1	0.1	0.1	1796.9	1799.9	0.1	1611.7	0.1
278	0.1	1845.3	0.1	0.1	0.1	0.1	0.1	1642.7	0.1	0.1	7.5	1784.4
279	0.1	1693.8	0.1	0.1	0.1	0.1	1855.5	1796.9	0.1	0.1	3.2	0.1
280	1232	976.3	1699.5	0.1	0.1	0.1	0.1	1856.1	0.1	0.1	1695.9	2013.9
281	0.1	1810.5	0.1	0.1	0.1	0.1	0.1	1825.7	0.1	0.1	2.4	1809.7
282	0.1	1592.8	1850.4	0.1	0.1	0.1	1692.8	1866.8	1197.8	0.1	1611.4	0.3
283	0.1	1653.7	0.1	0.1	1648.9	0.1	0.1	2012.3	0.1	0.1	10.5	1835
284	1653.9	0.1	0.1	1672.3	1708.9	0.1	0.1	2006.6	0.1	0.1	6	1798.1
285	0.1	1561.1	1282.8	0.1	0.1	0.1	1713.3	1796.1	0.1	0.1	2.1	0.1
286	0.1	1808.4	0.1	0.1	0.1	0.1	0.1	1792.8	2036.3	0.1	2.9	0.1
287	0.1	1710.6	0.1	0.1	0.1	0.1	0.1	2012.8	1687.6	0.1	2.8	0.1
288	0.1	1861.4	1685.9	0.1	1694.5	0.1	1847.5	1595.9	0.1	0.1	1611.6	0.1
289	0.1	2026.4	0.1	0.1	0.1	1290.6	0.1	1799	1820.4	0.1	2.3	1853.1
290	0.1	1799.2	0.1	0.1	1705.7	1653.1	1852.4	1275.6	0.1	0.1	10.8	0.1
291	0.1	1843.8	0.1	0.1	1146.6	0.1	0.1	1808.9	0.1	0.1	6.3	2012.6
292	0.1	1799.3	0.1	1700.7	0.1	1686.9	1611.8	1861.5	0.1	0.1	4.9	1016.3
293	0.1	0.1	1705.2	0.1	0.1	1684.8	1846	1613.1	0.1	1198.8	3.1	0.1
294	0.1	1681.8	0.1	1678.4	0.1	0.1	0.1	1913.1	0.1	0.1	2.2	0.1
295	1692.8	1598.1	0.1	0.1	0.1	0.1	2000.2	1606.3	0.1	0.1	4.6	1847.4
296	0.1	1698.3	1859.4	0.1	0.1	0.1	0.1	1252.8	0.1	0.1	10.6	1803.2
297	0.1	1817	1772.5	0.1	0.1	1316.2	0.1	955.3	0.1	0.1	5.6	1625.3
298	0.1	1800.8	0.1	0.1	0.1	0.1	0.1	2036.2	0.1	0.1	5	0.1
299	1314.1	1797.7	0.1	0.1	0.1	0.1	1719.5	2049	0.1	0.1	5	1810.5
300	0.1	1806.8	1614.2	0.1	0.1	0.1	1687.3	1858	0.1	0.1	2.6	1862



**HP BladeSystem c-Class 128P RAC  
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Report Date:  
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**Timing Intervals (in seconds)**

301	1606.6	1263	0.5	1684.7	0.1	0.1	0.1	1855	1662.1	0.1	4.7	0.1
302	0.1	0.1	2023.2	0.1	0.1	0.1	0.1	1652.6	1705.8	0.1	4.8	1825.8
303	1263.1	1625.8	1662.8	0.1	1694.3	0.1	0.1	1863.4	0.1	0.1	4.4	0.1
304	0.1	1827.9	1307	0.1	1660.9	0.1	0.1	1798.9	0.1	0.1	1641.5	0.1
305	0.1	2021.8	0.1	1716.1	0.1	1812.9	0.1	1655.1	0.1	0.1	1670.4	0.1
306	0.1	1810.9	1802.3	1321.9	0.1	0.1	0.1	2049	0.1	0.1	3.4	1706.5
307	0.1	1800.5	0.1	0.1	0.1	0.1	0.1	1862.9	0.1	0.1	4.7	0.1
308	0.1	1511	0.1	0.1	0.1	0.1	0.1	1834.1	0.1	0.1	2.4	1677.6
309	0.1	1655.5	0.2	0.1	0.1	0.2	0.1	1806.8	0.1	0.1	1616.4	2018
310	0.1	1639.3	0.1	0.1	0.1	0.1	0.1	1834.7	1717.2	0.1	13.7	1677
311	0.1	0.1	1695.2	1621.7	0.1	0.1	1383.9	1839.8	0.1	0.1	5.8	0.1
312	1898.1	1684.5	0.1	0.1	0.1	0.1	1721.3	1800.1	0.1	0.1	3	0.1
313	0.1	1712	1780.6	0.1	0.1	0.1	0.1	1814	0.1	0.1	1637.2	1852.1
314	0.1	1626.4	1803.2	0.1	0.1	0.1	0.1	1698.4	1837.7	0.1	4.9	0.1
315	0.1	1822.7	1792	0.1	0.1	0.1	0.1	1541.2	0.1	1336.8	14.1	1701.6
316	1799.7	1533.2	0.1	0.3	0.1	0.1	0.1	1723.9	1701.5	1282.7	2.7	1637.1
317	1625.8	1516.1	0.1	0.1	0.1	0.1	1365.5	1817.4	0.1	0.1	2	1794.5
318	0.1	1289.6	0.1	1640	0.1	0.1	1652.1	1797.5	1705.7	0.1	7.7	1544.5
319	0.1	1547.1	0.1	1635.8	0.1	0.1	0.1	1683.5	0.1	0.1	7	1709.1
320	0.1	1702.9	0.1	0.1	0.1	0.1	2022.3	1857	0.1	0.1	1620.1	1810.9
321	1365.7	247.2	1687.6	0.1	0.1	0.1	2006.1	1528.4	1861.7	0.1	1732.6	0.1
322	0.1	1783.2	0.1	0.1	0.1	0.1	0.1	1819.1	0.1	0.1	8.5	1791.2
323	0.1	1539	1809.2	1686	0.1	0.1	0.1	1864.1	1324.1	0.1	1639.3	0.1
324	0.1	1862.2	0.1	0.1	1663.6	0.1	0.1	2036.2	0.1	0.1	4.9	0.1
325	1637.1	1819.6	0.1	1702.5	1686.8	0.1	0.1	2011.1	0.1	0.1	6.8	0.1
326	0.1	909.7	1390.7	0.1	0.1	0.1	1706.1	1816.2	1773.7	0.1	2.8	0.1
327	0.1	1790.8	0.1	0.1	0.1	0.1	0.1	2028.1	0.1	0.1	7.5	1853.3
328	0.1	1705.9	0.1	0.1	0.1	0.1	0.1	2033.3	1722.9	0.1	3.5	0.1
329	0.1	1782.5	0.1	0.1	1711.1	0.1	0.1	1807	0.1	0.1	1708.6	0.1
330	0.1	2019.2	0.1	0.1	0.1	1366.9	0.1	1789.7	0.1	0.1	5.9	1866.1
331	0.1	1819.3	0.1	0.1	1709.3	1675.6	1836.6	1409.9	0.1	0.1	5.9	0.1
332	0.1	1844.9	0.1	0.1	1348.7	0.1	0.1	1792.1	2010.1	0.1	4.7	1825.2
333	0.1	0.1	1794.2	1705	0.1	0.1	1689.4	1802.2	0.1	0.1	2.2	0.1
334	0.1	1854.1	1715.5	0.1	0.1	0.1	2048.2	1649.5	1796.7	1324.7	4.7	0.1
335	0.1	1623.6	0.1	0.1	0.1	0.1	0.1	1718.3	0.1	0.1	4.6	0.1
336	1719.2	1853.6	0.1	0.1	0.1	0.1	0.1	1623.4	0.1	0.1	2.9	1827
337	0.1	1709.6	0.1	1996.2	0.1	0.1	0.1	1408.9	0.1	0.1	4.5	0.1
338	0.1	2007.7	0.1	0.1	0.1	1437.6	1858	865.8	0.1	0.1	14	1651.5
339	0.1	1847.2	1822	0.1	0.1	0.1	0.1	1854.8	0.1	0.1	6	1786.5
340	1434.7	1777	0.1	0.1	0.1	0.1	1699.9	2001.8	0.1	0.1	7.5	0.1
341	0.1	1827.7	1674.3	0.1	0.1	1772.5	0.1	1858.7	0.1	0.1	2.4	1633.6
342	1650.7	1445.7	0.1	1677.1	0.1	0.1	0.1	1859.4	1691.3	0.1	10.3	0.1
343	0.1	0.1	0.1	0.1	0.1	0.1	1997.1	1641.1	1718.9	0.1	6.3	1847.2
344	1436.8	1646.3	0.1	0.1	1686.2	1701.4	0.1	1867.7	0.1	0.1	7.3	0.1
345	0.1	1848	1478.1	0.1	1703	0.1	1785.3	1818.7	0.1	0.1	1629.7	0.1
346	0.1	2001.9	0.1	1702.2	0.1	1639.8	0.1	1687	0.1	0.1	2.4	0.1
347	0.1	1847.7	0.1	1423.6	0.1	0.1	0.1	2012.2	0.1	0.1	5.6	1710.3
348	0.2	0.1	0.1	0.1	0.1	0.1	1855.6	1876.4	0.1	0.1	2.1	2007.2
349	0.1	1494.7	1848.9	0.1	0.1	0.1	0.1	1789.6	0.1	0.1	3.7	1721.1
350	0.1	1671.1	0.1	0.1	0.1	0.1	1774.3	1822	0.1	0.1	2.6	1852.1



**HP BladeSystem c-Class 128P RAC  
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**Report Date:  
June 3, 2009**

**Timing Intervals (in seconds)**

351	0.1	1620	0.1	0.1	0.1	0.1	0.1	1841.9	1670.2	0.1	5.9	0.1
352	0.1	1863.5	0.1	1949.3	0.1	1621.1	1530.9	1804.8	0.1	1661.1	3.5	1476.9
353	0.1	1631.8	0.1	0.1	0.1	0.1	1698.2	1791.1	0.1	0.1	4.2	0.1
354	0.1	1696.2	1988.7	0.1	0.1	0.1	0.1	1797.6	0.1	0.1	4.7	0.1
355	0.1	1638.9	2002.7	0.1	0.1	0.1	0.1	1698.9	0.1	0.1	3.1	0.1
356	0.1	1845	0.1	0.1	0.1	0.3	1785.7	1500.6	0.1	1477.6	13.4	1711.9
357	1840	1496.1	0.1	0.1	0.1	0.1	0.1	1714.3	1710	1436.8	3.9	1632.8
358	1953.4	0.1	0.1	0.1	1641.2	0.1	1569.9	1860.2	0.1	0.1	4.9	0.1
359	0.1	1445.6	0.1	1682.5	0.1	0.1	1650.9	1816.3	1691.3	0.1	3.7	1511.6
360	0.1	1476.6	0.1	1618.5	0.1	0.1	0.1	1708.4	0.1	0.1	6.5	1664.1
361	0.1	1706.6	0.1	0.1	0.1	0.1	0.1	1782.6	0.1	0.1	1626	0.1
362	1503.8	859.4	1702.5	0.1	0.1	0.1	1856.2	1865.2	0.1	0.1	9.2	0.2
363	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1879.9	0.1	0.1	6.8	0.1
364	0.1	1868.7	0.1	1697	0.1	0.1	0.1	1819	1518.2	0.1	1635.9	1493.5
365	0.1	1860.2	0.1	0.1	0.1	0.1	0.1	1940.7	1951	0.1	3.7	0.1
366	1929.5	1803.9	0.1	1699.1	1653.6	0.1	0.1	1788.4	0.1	0.1	1649.2	0.1
367	0.1	860	1506.7	0.1	0.1	1624.8	1672.4	1822.1	0.1	0.1	6.8	0.1
368	0.1	1809.2	0.1	0.1	0.1	0.1	1842.7	1788	0.1	0.1	14.5	0.1
369	0.1	1661.2	0.1	0.1	0.1	1618.7	0.1	1976.2	0.1	0.1	3.3	0.1
370	0.1	0.1	1658.7	0.1	0.1	1630.8	0.1	1814	0.1	0.1	1706.6	0.1
371	0.1	1975.3	0.1	0.1	0.1	1519.5	0.1	1797.6	1879.4	0.1	3.7	0.1
372	0.1	1873.4	0.1	1702.3	1653	1618.3	1976.4	1543.6	0.1	0.1	7.1	0.1
373	0.1	0.1	0.1	0.1	1556.4	0.1	0.1	1972.9	0.1	0.1	2.4	0.1
374	0.1	1805.8	0.1	1701.5	0.1	1635.9	0.1	1862.2	0.1	0.1	6.6	0.1
375	0.1	1860.4	1653.2	0.1	0.1	1701.7	0.1	1649.1	1937.3	1527.3	6.8	1791.7
376	0.1	1626.1	0.1	0.1	0.1	0.1	1810.4	1674.1	0.1	0.1	5.9	0.1
377	0.1	1812.3	0.1	0.1	0.1	0.1	0.2	1727.5	1656.7	0.1	2.6	1939.9
378	0.1	1634.8	0.1	0.1	0.1	0.1	1779.7	1583.9	0.1	0.1	3.6	0.1
379	0.1	0.1	1782.4	0.1	0.1	1544.7	1929.6	849.5	0.1	0.1	2.1	1623.2
380	0.1	1861.1	0.1	0.1	0.1	0.1	0.1	1936.9	0.1	0.1	3.9	0.1
381	1603.6	1851.3	0.1	0.1	0.1	0.1	1671.4	1795.7	0.1	0.1	5	1928.8
382	0.1	1793	0.1	0.1	0.1	0.1	1711.2	1848.3	0.1	0.1	8.2	1634.3
383	1633.4	1577.1	0.1	1712.1	0.1	0.1	0.1	1860.7	1627.5	0.1	20.1	0.1
384	0.1	1460	0.1	0.2	0.1	0.1	1934	1643.5	1678.9	0.1	9.3	1947
385	1566.8	1716.7	0.1	0.1	1638.5	0.1	0.1	1855.7	0.1	0.1	4.5	1809.5
386	0.1	1926.1	1593.3	0.1	1709.7	0.1	1852.9	1812.9	1936.9	0.1	1645.9	0.1
387	0.1	0.1	0.1	0.2	1634.6	0.1	0.1	1728	0.1	0.1	5.4	0.1
388	0.1	1919.9	0.1	1589	0.1	0.1	0.1	1793.7	0.1	0.1	4.5	1668.5
389	0.1	1808.1	0.1	0.1	0.1	0.1	1943.6	1496.2	0.1	0.1	4.3	0.1
390	0.1	1465.4	0.1	0.1	0.1	0.1	0.1	1859.9	0.1	0.1	6.1	1708.4
391	0.1	1727.4	0.1	0.1	0.1	0.1	0.1	1846.5	0.1	0.1	1619.8	1938.2
392	0.1	1640.9	0.1	0.3	0.1	0.1	0.1	1942.7	0.1	0.1	6.9	1744.1
393	0.1	1796	1643.2	1604.4	0.1	0.1	1639.5	1961.7	0.1	0.1	5.2	0.1
394	0.1	1647	0.1	0.1	0.1	0.1	1631	1804.4	0.1	0.1	3.1	0.1
395	0.1	1638.1	1927.8	0.1	0.1	0.1	0.1	1804.3	0.1	0.1	3	0.1
396	0.1	1642.9	1790.1	0.1	0.1	0.1	1922.3	1731.5	0.1	0.1	2.2	0.1
397	0.1	1617.3	1788.2	0.1	0.1	1445.2	1925.1	801.3	0.1	1599.9	6.7	0.1
398	0.1	1808.3	0.1	0.1	0.1	0.1	0.1	1651.8	1744.4	1642.7	7.2	1610
399	1640.8	1452.6	0.1	0.1	0.1	0.1	1618	1856.1	0.1	0.1	7.2	1797.7
400	0.1	1589.4	0.1	1680.6	0.1	0.1	1646.6	1859.2	1680.9	0.1	5.3	1802



**HP BladeSystem c-Class 128P RAC  
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TPC-H Rev. 2.8.0

Report Date:  
**June 3, 2009**

**Timing Intervals (in seconds)**

401	0.1	790.3	0.1	1604.4	0.1	0.1	1850.3	1730.4	0.1	0.1	11.9	1678
402	0.1	1727.9	0.1	0.1	0.1	0.1	1646.9	1798.9	0.1	0.1	3.2	1934
403	1630.7	790	1632	0.1	0.1	0.1	1934.9	1799.2	0.1	0.1	1716	0.1
404	0.1	1782.6	0.1	0.1	0.1	0.1	0.1	1935.7	0.1	0.1	5.4	0.1
405	0.1	1811	0.1	1720.4	0.1	0.1	0.1	1860.3	1695.8	0.1	1629.6	0.1
406	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1931.4	1939.4	0.1	7	0.1
407	1625.2	1812.7	1847.5	1748.9	1660.9	0.2	0.1	1949.4	0.1	0.1	8.2	0.1
408	0.1	624.4	1819.5	0.1	0.1	1634.1	1712.9	1876.8	0.1	0.1	4.7	0.1
409	0.1	1788.8	0.1	0.1	0.1	0.1	0.1	1933.3	0.1	0.1	7.1	1805
410	0.1	1681	0.1	0.1	0.1	0.1	0.1	1928.2	1718.6	0.1	2.2	0.1
411	0.1	1862.6	0.1	0.1	1661.4	1631.4	0.1	1823.6	0.1	0.1	1750.7	0.1
412	0.1	1920.9	0.1	0.1	0.2	1642.3	0.1	1799.4	0.1	0.1	5.6	0.1
413	0.1	1862.8	0.1	1746.3	1647.1	0.1	1937.1	1658.9	0.1	0.1	2.9	0.1
414	0.1	1860.6	0.1	0.1	1657.1	0.1	0.1	1950.1	0.1	0.1	2.4	1945.7
415	0.1	1789.5	0.1	1637.3	0.2	1743.2	0.1	1864.3	0.1	0.1	3.4	1447.7
416	0.1	1858.4	1649.5	0.1	0.1	1749.9	1935.7	1622.8	0.1	1645.2	6.3	0.1
417	0.1	1612.4	0.1	1939.2	0.1	0.1	0.1	1646.9	0.1	0.1	4.5	0.1
418	0.1	1810.1	0.1	0.1	0.1	0.1	1940.5	1741.5	0.1	0.1	3.2	1632.8
419	0.1	1726.6	1887.3	0.1	0.1	0.1	0.1	1769.8	0.1	0.1	2.2	1808.7
420	0.1	2000.7	1796.2	0.1	0.1	1802.9	1652.9	640.5	0.1	0.1	6.2	1704.8
421	0.1	1862.2	1772.2	0.1	0.1	0.1	0.1	1943	0.1	0.1	5.1	0.1
422	1719.1	0.1	0.1	0.1	0.1	1781.4	1627.2	1857.7	0.1	0.1	9.8	1910.7
423	0.1	1785.6	0.1	0.2	0.1	0.1	1714.2	1872.3	0.1	0.1	2.4	1623.8
424	1635.4	1679.1	0.1	1748.3	0.1	0.1	0.1	1814.8	1625.3	0.1	2.2	0.1
425	0.1	1432.9	0.1	0.3	0.1	0.1	1927.4	1623.1	1650.3	0.1	3.7	1934.8
426	1694.9	1723.4	1634.6	0.1	0.1	0.1	0.1	1871.6	0.1	0.1	10.6	1789.6
427	0.1	1982.2	1831.2	0.1	1705.2	0.1	0.1	1815.4	0.1	0.1	1660.1	0.1
428	0.1	1916	0.1	0.1	1628.2	0.1	0.1	1641.7	0.1	0.1	1728.4	1807.5
429	0.1	1963.6	0.1	1776	0.1	0.1	1849.3	1896.9	0.1	0.1	5.6	1705.5
430	0.1	0.1	0.1	1725.4	0.1	0.2	0.1	1816	0.1	0.1	12.8	1921.3
431	0.1	1790.3	0.1	0.1	0.1	0.1	0.1	1798.7	0.1	0.1	10.5	1714.7
432	0.1	1708.3	0.1	1947.6	0.1	0.1	0.1	1883.1	0.1	0.1	1632	0.1
433	0.1	1625.1	0.1	0.1	0.1	0.1	0.1	1942.4	1663.5	0.1	6.7	1734.5
434	0.1	1878.1	1692.2	1983.1	0.1	0.1	1861.8	1860	0.1	1724.4	2.3	0.1
435	1886.1	1676.5	0.1	0.1	0.1	0.1	1678.8	1798.9	0.1	0.1	4.1	0.1
436	0.1	1656.8	1783.1	0.1	0.1	1911.5	0.1	1871.8	0.1	0.1	4.2	1810.2
437	0.1	1619.2	1779	0.1	0.1	0.1	0.1	1730.5	1980.3	0.1	3.5	0.1
438	0.1	1988.3	1816.1	0.1	0.1	0.1	0.1	1808.8	0.1	1816.7	5.3	1700.6
439	0.1	1863.8	0.1	0.1	0.1	0.1	0.1	1687.2	1728.7	1717	3.9	1642.9
440	1708.5	1392	0.1	0.1	0.1	0.1	1880.3	1873.8	0.1	0.1	2.1	1796.4
441	0.1	1739.6	0.1	1734.1	0.1	0.1	1640.4	1877.1	1650.6	0.1	8	0.1
442	0.1	1792.8	0.1	0.1	0.1	0.1	0.1	1741	0.1	0.1	2.3	1686.3
443	0.1	1695.4	0.1	0.1	0.1	0.1	0.1	1813.9	0.1	0.1	1645.6	0.1
444	1809.9	1404.7	1723.7	0.1	0.1	0.1	0.1	1883.6	2013.3	0.1	1720.2	0.1
445	0.1	1774.8	0.1	0.1	0.1	0.1	0.1	1955.1	0.1	0.1	4.1	0.1
446	1972.4	1801.2	0.1	0.1	0.1	0.1	1728.3	1870.7	1750.8	0.1	7	0.1
447	0.1	0.1	0.1	0.1	0.1	1873.1	1887.3	1791.8	1979.4	0.1	2.2	0.1
448	1704.4	0.1	0.1	1709.6	1670.6	0.1	1874	1873	0.1	0.1	6.2	0.1
449	0.1	611.5	1856.9	0.1	0.1	0.1	1699.7	1872	1784.3	0.1	3.6	1794.8
450	0.1	1868.6	0.1	1630.5	0.1	0.1	1981.8	1792.9	0.1	0.1	3	0.1





**HP BladeSystem c-Class 128P RAC  
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TPC-H Rev. 2.8.0

**Report Date:  
June 3, 2009**

**Timing Intervals (in seconds)**

451	0.1	1662.1	0.1	0.1	0.1	0.1	0.1	1955.9	1743.6	0.1	2.3	1802.2
452	0.1	1788.3	1901.5	0.1	1715.9	0.1	1699.1	1362.4	0.1	0.1	1704.8	1810.9
453	0.1	1928	0.1	0.1	0.1	1716.7	0.1	1795.4	1911.1	0.1	2.9	1790.5
454	0.1	1863.9	0.1	1697.6	1705.9	1636.6	0.1	1809.3	0.1	0.1	2.2	0.1
455	0.1	1872	0.1	0.1	1827.4	0.1	0.1	1857.1	0.1	0.1	2.8	1978.2
456	0.1	1874	0.1	1664.1	0.1	1732.4	1641.4	1800.1	0.1	0.1	2.5	0.1
457	0.1	1802.6	1657	0.1	0.1	0.1	1925.4	1734.9	1641.3	1716.6	3.4	1791.1
458	0.1	1718.3	0.1	1674.9	0.1	0.1	1857.2	1897.8	0.1	0.1	4.5	0.1
459	0.1	1434.3	1884.3	1968.2	0.1	0.1	0.1	1740.1	0.1	0.1	3.7	1642.2
460	0.1	1698.3	1984.3	0.1	0.1	0.1	0.1	1847.7	0.1	0.1	6.7	1867.3
461	0.1	1859.4	0.1	0.1	0.1	1820.9	2001.1	629.5	0.1	0.1	2.2	1619.2
462	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1844.8	0.1	0.1	6.7	0.1
463	1740.8	1867.7	0.1	0.1	0.2	0.1	1674.6	1802.7	0.1	0.1	5	1878.3
464	0.1	1879	0.1	0.1	0.1	0.1	1720.5	1804.6	0.1	0.1	2.5	1693.4
465	1632.7	1749.4	0.2	1734.1	0.1	0.1	0.1	1809.9	1663.7	0.1	5.3	0.1
466	0.1	1809.2	0.1	0.1	0.1	0.1	0.1	1641.2	1697.2	0.1	6.7	1958.7
467	1740.8	1629.6	0.1	0.1	1737.6	1664	0.1	1815.9	0.1	0.1	6.3	0.1
468	0.1	1998.2	1856.6	0.1	1715.8	0.1	0.1	1809	0.1	0.1	1665	0.1
469	0.1	1870.3	1881.6	0.1	1662.4	1968	0.1	1640.1	0.1	0.1	1734.9	0.1
470	0.1	1976.6	0.1	1820.3	0.1	0.1	0.1	1856.2	0.1	0.1	3.2	1716.7
471	0.1	0.1	1863.3	0.1	0.1	0.1	1963.4	1806.9	0.1	0.1	3.6	0.1
472	1938.7	1806.1	0.1	0.1	0.1	0.1	0.1	1793.6	0.1	0.1	4.3	1731.8
473	0.1	1718.7	0.1	1638	0.1	0.1	0.1	1872.6	0.1	0.1	2.3	1889.4
474	0.1	1684.3	0.1	0.1	0.1	0.1	0.1	1972.9	1719.3	0.1	5.2	1689.3
475	0.1	1870	1684.7	1982.9	0.1	1710.2	1879.4	1860.1	0.1	0.1	2.2	0.1
476	0.1	1965.6	0.1	0.1	0.1	0.1	1727.9	1872.8	0.1	0.1	6.9	0.1
477	0.1	1704.9	0.1	0.1	0.1	0.1	1876.6	1877.3	0.1	0.1	1640.9	0.1
478	0.1	1637.4	0.1	2.7	0.1	1955.8	0.1	1723.2	0.1	0.1	2.9	0.1
479	0.1	1994.9	0.2	0.1	0.1	0.1	1806.9	1406.8	0.1	1844.7	2.1	1719.2
480	1646	0.1	0.1	0.1	0.1	0.1	0.1	1712.2	0.1	1768.6	2.8	1718.4
481	1703.8	1783.1	0.1	0.1	0.1	0.1	1878.8	1810	0.1	0.1	3.4	0.1
482	0.1	1767.7	0.1	1698.1	0.1	0.1	1651.8	1856.9	1711.8	0.1	2.5	0.1
483	0.1	1814.4	0.1	0.1	0.1	0.1	1851	1721.8	0.1	0.1	2.8	1713.5
484	0.1	1715.7	0.1	0.1	0.1	0.1	0.1	1850.6	0.1	0.1	4.1	0.1
485	1846.5	593.8	1725.1	0.1	0.1	1651.2	0.1	1802.3	0.1	0.1	1705.2	0.1
486	0.1	1805.3	0.1	0.1	0.1	0.1	1866.8	1988.1	0.1	0.1	3.1	0.1
487	0.1	1816.6	0.1	1638.5	0.1	0.1	1708.7	1864.2	1802.2	0.1	8.6	0.1
488	0.1	1798.1	0.1	0.1	0.1	0.1	1807.7	1872.5	1982.5	0.1	8.6	0.1
489	1689.3	0.1	0.1	1711.2	1678.9	1949.7	1802.2	1799.6	0.1	0.1	10.4	0.1
490	0.1	1425.9	1788.6	0.1	0.1	1694.5	1716.6	1808.4	0.1	0.1	4.1	0.1
491	0.1	1860.8	0.1	0.1	0.1	0.2	1984.2	1818.7	0.1	0.1	10.9	0.1
492	0.1	1702.5	0.1	0.1	0.1	1648.1	1437.1	1862.1	0.1	0.1	9.6	0.2
493	0.1	1860.6	1711.8	0.1	0.1	0.1	1648.2	1822.2	0.1	0.1	1711.5	0.1
494	0.1	1801.6	0.1	0.1	0.1	1788.4	1451	1863.2	1849.3	0.1	4.9	0.1
495	0.1	1799.6	0.1	1703.6	1703.6	1660.8	1881.4	1859.2	0.1	0.1	2.5	0.1
496	0.1	1801.3	1409.3	0.1	1824.9	0.1	1868.7	1989.7	0.1	0.1	4.2	1656.1
497	0.1	1802.7	0.1	1704.7	0.1	0.1	1717.6	1859	0.1	0.1	2.2	0.1
498	0.1	0.1	1700.3	0.1	0.1	0.1	1990.9	1710.2	1671.7	1814.4	11.2	1807.1
Min Si	0.1	0.1	0.1	0.1	0.1	0.1	0.1	5.2	0.1	0.1	2.0	0.1
Max Si	1972.4	2041.3	2026.8	1996.2	1910.2	1998.2	2048.2	2058.9	2038.0	1844.7	1829.5	2039.6
Avg Si	289.4	1503.9	512.1	366.3	293.5	274.2	720.4	1750.4	456.5	121.9	242.4	883.8



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**Timing Intervals (in seconds)**

Stream	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
0	10.8	2.5	1.8	3.3	5.3	16.9	6.2	5.6	16	3.6	5.2	2.5
1	0.1	0.1	0.1	1869.4	1969.8	0.1	1795.2	1686.5	63	1379.9	4.0	2.5
2	0.1	1693.5	0.1	1685.2	1944.3	0.1	1686	1796	0.1	1814.2	4.1	3.1
3	0.1	0.1	0.1	1338.1	1687	0.1	1790.1	1812	0.2	1876.8	3.6	2.7
4	0.1	0.1	0.1	1810.5	1696.3	0.1	1695.6	1338.6	1926.1	1797.8	4.6	2.5
5	0.1	0.1	1898.9	1686.6	1793.3	0.1	1686	1877	71.1	1964.3	3.2	3.3
6	0.1	0.1	0.1	1799.2	564.2	0.1	1794.8	1346.7	0.1	1997.6	3.9	2.9
7	0.1	0.1	0.1	1871.6	1976.5	56.6	1871.6	1730.6	0.1	1692.3	3.1	2.4
8	0.1	0.1	1673.4	1865	1730.3	0.1	51.1	1798.1	0.1	1800.7	3.6	3.5
9	1926.1	0.1	0.1	1791.7	1677.1	0.1	1857.9	1698.2	0.1	1811.4	4.7	2.6
10	0.1	0.1	1942.1	1871.4	1685.8	0.1	1348.1	1795.4	0.1	1808.2	3.7	3.2
11	0.1	1932.9	86.9	1967.2	1693.6	0.1	1352	1692.7	0.1	1821	5.1	2.9
12	0.1	0.1	0.1	1693	1691.6	0.1	1857.5	1816	0.1	1685.9	3.6	2.6
13	0.1	0.1	0.1	1798.1	1941.2	0.1	579.3	1345.8	87	1877.7	4.0	3.6
14	0.1	0.1	0.1	1975.5	1879	0.9	1859.5	1697.5	0.1	1362.7	3.5	3.0
15	0.1	0.1	0.1	81.8	1683.2	0.1	1864.7	1809.5	0.1	1881.4	3.8	2.7
16	0.1	0.1	0.1	1683.9	0.1	0.1	1857	1880	0.1	2003.5	3.8	3.2
17	0.1	0.1	0.1	1907.5	1994.4	0.1	1856	1323.6	0.1	1787.4	3.8	3.3
18	0.1	101	0.1	580.1	0.1	0.1	1805.4	1880.1	0.1	1359.8	4.0	2.9
19	0.1	0.1	0.1	1686.8	0.1	0.1	1795.7	1863.1	0.1	1700.6	3.8	2.9
20	0.1	0.1	1908.4	123.3	1863.9	0.1	1698.9	1799	0.1	1701	5.1	2.9
21	0.1	1853.7	0.1	1991.1	1671.8	0.1	1707.9	260	0.1	1806.6	4.0	2.5
22	0.1	1901.9	0.1	137.1	1796.9	0.1	1863	1856.5	0.1	1678	4.6	2.7
23	0.1	0.1	1893.2	1810.8	1866.3	55.6	1791.7	1379.9	0.1	1870.1	3.8	3.2
24	0.1	0.1	0.1	1318	1787.3	0.1	1842.9	1708	0.1	1989.4	4.2	3.0
25	0.1	0.1	0.1	1709.5	0.1	164.7	1870.1	1799.3	0.1	1796	3.8	2.7
26	160.6	0.1	0.1	1329.1	1788.6	0.1	1878.4	1688.7	0.1	1687.1	4.9	2.9
27	0.1	157.6	0.1	1993.4	1914.9	0.1	1852	1817.1	0.1	1671.9	4.2	3.2
28	0.1	0.1	0.1	1992.8	1801.4	0.1	1855.9	1701.6	0.1	1883.4	5.2	2.7
29	0.1	0.1	0.1	1852	1875.7	0.1	1303	1998.1	0.1	1821.6	3.8	2.8
30	0.1	0.1	0.1	1975.4	1851.6	0.1	1707.3	1844.7	0.1	1712.6	5.1	3.1
31	0.1	0.1	0.1	1992.4	1796.1	0.1	1810.5	1880.2	0.1	1327.3	4.7	2.6
32	0.1	0.1	234	1986.9	1876.9	0.1	1865	1820.3	0.1	1683.1	4.9	2.6
33	0.1	0.1	243.9	1865	1695.7	0.1	1849.6	1988	0.1	1760.4	4.4	2.6
34	1858.2	0.1	0.1	1810.8	1851.5	0.1	1310.3	1985.1	0.1	1697	4.7	2.8
35	0.1	164.7	0.1	1989.7	1907.6	0.1	1803.7	1708.6	0.1	1686.6	4.7	2.9
36	0.1	0.1	0.1	1879.7	1874.2	0.1	1327.3	1817	0.1	1991.3	5.8	2.7
37	668.4	1759.7	0.1	1792.3	1825.5	0.1	1723.7	1746.8	0.1	1644.1	5.1	2.9
38	0.1	1659.6	0.1	1992.1	0.1	0.1	1763.2	293	0.1	1819.7	6.6	3.1
39	0.1	1715.8	0.1	1696.6	0.1	0.1	1984.1	1670.1	0.1	1852.6	4.8	2.8
40	200.5	0.1	1882.1	1845.8	1688.9	0.1	1782.5	1991.5	0.1	1707.9	6.9	2.9
41	0.1	226.4	0.1	1872.4	0.1	0.1	1818.1	1667.6	0.1	1984.4	5.0	2.7
42	0.1	0.1	0.1	1989.8	0.1	0.1	1859.7	1669.4	231.5	1782.4	5.1	2.8
43	0.1	0.1	0.1	1682.6	1850	0.1	1661.2	1839.5	0.1	1802.1	4.9	2.8
44	0.1	0.1	0.1	1764.4	1706.6	0.1	1857.5	1865.5	0.1	1707.7	4.8	3.3
45	0.1	4.3	0.1	1990	1649.4	0.1	1796	1850.4	0.1	1787.5	4.1	2.8
46	0.1	0.1	1827.1	1664.2	1292.5	0.1	1695.6	1765.4	303.1	1984.6	5.1	2.9
47	0.1	0.1	1710.1	1807.7	1311.5	0.1	1855.7	1788	0.1	1881.6	4.3	2.9
48	0.1	0.1	0.1	1822.5	0.1	234	1982.2	1720.5	0.2	1688.7	5.0	2.7
49	0.1	0.1	0.1	1842.5	1640.9	0.1	723.5	1990.2	0.1	1778.4	4.1	2.7
50	1845.3	0.1	0.1	1859.8	1719.6	0.1	1895.4	1655.4	0.1	1803.7	5.3	2.8



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51	0.1	0.1	1832.4	1802.6	1682.2	0.1	1768.2	1840	0.1	1891.6	4.7	2.9
52	0.1	1780.4	532.8	1700.7	1706.5	0.1	1780	1635.2	0.1	1849.9	5.2	3.4
53	0.1	0.1	0.1	1720.4	1669.4	0.1	1777.6	1841.5	0.1	1692.3	4.8	3.2
54	0.1	0.1	0.1	1973.9	1852.5	0.1	1774.4	1866.9	277.9	1690.2	4.9	2.7
55	0.1	0.1	0.1	1997.4	1885.1	0.1	1798	1707.3	0.1	1767.6	5.3	3.9
56	0.1	0.1	0.1	302.8	1722.7	0.1	1294.9	1786.6	0.1	1852.7	4.6	3.0
57	0.1	0.1	0.1	1703.3	1868.7	0.1	1768.4	1782.4	0.1	2022.4	5.3	2.9
58	0.1	0.1	0.1	1715.3	1984.3	0.1	1851.1	1122.1	0.1	1712	4.3	3.0
59	0.1	385.3	0.1	494	1985.4	0.1	1852.6	1799.2	0.1	1281.6	5.0	2.6
60	0.1	0.1	0.1	1661.4	1901.9	0.1	1761.1	1865.7	0.1	1667.5	5.0	3.1
61	0.1	1655.7	1824	432.7	0.1	0.1	1703.3	1884.6	0.1	1662.7	5.9	2.7
62	0.1	1758.1	0.1	2006.8	1629.4	0.1	1820.6	1081.1	0.1	1819.5	4.9	3.0
63	0.1	1835.4	0.1	344.3	0.1	0.1	1992	1806.5	0.1	1650.8	5.6	2.8
64	0.1	1650.3	1782.9	1856.3	0.1	482.1	1772.2	1279.6	0.1	1773.6	4.9	3.1
65	0.1	1643.1	0.1	1627.2	0.1	0.1	1845.6	1621.2	0.1	2002.2	5.3	2.9
66	0.1	0.1	0.1	1672.6	1864.5	482.1	2019.4	1753.6	0.1	1856.3	4.8	2.5
67	327.4	0.1	0.1	1854.8	0.1	0.1	1997.1	1665.7	0.1	1712.8	5.1	2.7
68	0.1	334.7	0.1	1800.9	1856.7	0.1	1276.6	1778.6	0.1	2004.3	4.5	2.8
69	0.1	0.1	0.1	1991.4	1781.4	0.1	1844.4	1676.7	0.1	1741.5	5.3	2.7
70	0.1	0.1	0.1	1844.8	1803.7	0.1	1111.1	2001.8	0.1	1786	4.9	3.1
71	0.1	0.1	0.1	2008.9	1756.3	0.1	1807.9	1811.6	0.1	1657.1	6.0	2.8
72	0.1	0.1	0.1	1798.8	1835.2	0.1	1841	1987.5	0.1	1730.9	4.9	3.2
73	0.1	0.1	1150.2	2002.6	0.1	0.1	1802.7	1808.6	0.1	1826.8	5.7	2.9
74	0.1	0.1	911.3	1711.5	1658.4	0.1	1858.2	1823.8	0.1	1711.3	4.9	2.7
75	0.1	0.1	0.1	1846.9	0.1	0.1	1143.1	1822.4	0.1	1823.1	5.8	2.9
76	0.1	598.8	0.1	2043.5	1781.5	0.1	1785.6	1628.7	0.2	1694	4.3	2.6
77	0.1	0.1	0.1	1996.6	1762.4	0.1	1184	1838.8	0.1	1800.8	5.6	2.5
78	686.3	1786.6	0.1	1788.2	1839.7	0.1	1737.1	1741.2	0.1	1654.5	4.1	2.7
79	0.1	0.1	0.1	2013.2	907.8	0.1	1521.8	1447.8	0.1	1820.7	5.9	2.7
80	0.1	1652.1	0.1	1857.4	1797.4	0.1	2024.8	1626.3	0.1	1865.2	4.9	2.6
81	504.3	0.1	1774.3	1767.4	1697.5	0.1	1261.7	1857.1	0.1	1662	5.8	2.9
82	0.1	967	0.1	1803.9	1831.5	0.1	1846.1	1578	0.1	1806.2	4.2	2.7
83	0.1	0.1	0.1	1837.4	1996.3	0.1	1729.2	1800.3	753.2	1174.5	5.5	2.9
84	0.1	1675.6	0.1	1625.5	1725.4	0.1	1849.2	1600.4	0.1	1844.4	4.8	2.5
85	0.1	0.1	0.1	1730.8	1639.8	0.1	1839	1841.2	0.1	1968.2	7.0	2.7
86	0.1	1838.9	0.1	1879.3	1671.5	0.1	1672.3	1753.5	0.1	1856.7	4.3	2.8
87	0.1	0.1	1812.4	1704.7	0.1	0.1	2011.5	1279.4	444.3	1853.6	5.2	3.2
88	0.1	0.1	0.1	1804.4	0.1	0.1	1842.6	1728.9	0.1	1994.4	4.9	2.9
89	0.1	0.1	0.1	1776.3	2018.3	481.1	1858.2	1688.6	0.1	1709.4	6.8	2.9
90	0.1	0.1	0.1	1780.6	1645.8	0.1	672.2	1847.7	0.1	1866.2	5.2	2.9
91	1745.3	0.1	0.1	1780.8	1824.5	0.1	1964.7	1655.8	0.1	1861.1	5.1	2.9
92	0.1	0.1	1702.7	1814.4	1667	0.1	1604.5	1848.6	0.1	1814.9	5.2	3.5
93	0.1	0.1	896.7	1643.8	1726.2	0.1	1845.8	1659.4	0.1	1997.5	4.9	3.0
94	0.1	0.1	0.1	1668.6	1640.5	0.1	1692.7	1850.3	0.1	1822.5	5.1	2.8
95	0.1	0.1	0.1	1840.7	1785.7	0.1	1218.4	1745.7	635.8	2032.1	5.0	2.7
96	0.1	0.1	0.1	1979.8	1843.3	0.1	1787.5	1793.7	0.1	1731.6	5.0	2.8
97	0.1	0.1	0.1	524.9	1696.6	0.1	1769.5	1861.8	0.1	1779.8	5.4	2.8
98	0.1	0.1	0.1	1641.4	0.1	0.1	1794	2044.8	0.1	1711.6	4.3	3.6
99	0.1	0.1	0.1	1714.3	2049	0.1	1864.3	933.8	0.1	1547.4	5.2	3.4
100	0.1	671.8	0.1	1722.7	1725.9	0.1	1800.3	1849	0.1	1859.2	4.0	3.1



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101	0.1	0.1	0.1	1644.5	1861.6	0.1	1750.4	1870.1	0.1	1682.1	5.6	2.7
102	0.1	0.1	1790.5	685	1842.6	0.1	1648.9	1803.2	0.1	1655	5.0	2.8
103	0.1	1731.9	0.1	2011	1639.1	0.1	1832.4	1097.9	0.1	1814	5.5	2.7
104	0.1	1774.6	0.1	587.6	1743.4	0.1	2044.1	1872.2	0.1	1626.4	4.5	2.7
105	0.1	1599.3	1729.7	1852.3	1678.6	949.4	1092.5	366.3	0.1	1794	5.6	2.7
106	0.1	1647.7	0.1	327.9	1038.2	0.1	1639.5	1822.5	0.1	1816.1	5.1	4.1
107	0.1	0.1	0.1	1660.7	1792.5	635.8	1717.3	1853.4	0.1	2045.9	4.9	3.0
108	963.3	0.1	0.1	1088	1683.2	0.1	1816.5	1825.6	0.1	1688.7	4.7	3.6
109	0.1	963.4	0.1	1816.3	1749	0.1	1679.2	1853.5	0.1	2010.8	4.0	2.6
110	0.1	0.1	0.1	2038	1799.2	0.1	1846	1651.2	0.1	1791.2	4.0	2.8
111	0.1	0.1	0.1	1812.6	2025.1	0.1	1859.3	1834.9	0.1	1790.5	4.4	2.9
112	0.1	0.1	0.1	2008.3	1768.6	0.1	1830.3	1843	0.1	1655.9	4.3	2.6
113	0.1	0.1	0.1	1717.7	1853.5	0.1	1843.9	2043.3	0.1	1731.2	4.8	3.1
114	0.1	0.1	578.3	1698.5	2035	0.1	1860.6	1783.5	0.1	1639.9	4.9	3.0
115	0.1	0.1	1156.3	1735.3	1614	0.1	1865.1	2016.8	0.1	1584.7	4.0	3.0
116	1771.2	0.1	0.1	1837.5	1653.6	0.1	315	1816.6	0.1	1819.1	4.1	2.8
117	0.1	577	0.1	2042.6	1778.7	0.1	1762.9	1648.5	0.1	1684.3	4.7	2.8
118	0.1	0.1	0.1	1844.6	1786.7	0.1	1736.7	1788.2	0.1	2038.3	4.8	2.7
119	659.9	1768.8	0.1	1788.3	1843	0.1	1723.4	1739	0.1	1643.9	5.2	2.6
120	0.1	1613.1	0.1	2001.4	337.1	0.1	1051.7	1037.3	0.1	1810.7	4.9	2.6
121	0.1	1682.4	0.1	1817.7	1809.9	0.1	2003.1	1619.7	0.1	1849.1	4.9	2.6
122	704.9	0.1	1782.7	1726.1	1657.1	0.1	1173.4	1842.2	0.1	1641.4	5.6	2.8
123	0.1	584.8	0.1	1773.4	1712.8	0.1	1871.8	1685.6	0.1	1855.2	4.5	2.7
124	0.1	0.1	0.1	1861.9	1968.9	0.1	1713.2	1830.9	800	1168.4	5.2	2.7
125	0.1	0.1	0.1	1694.5	1725	0.1	1608	1599.1	0.1	1803.8	4.1	2.8
126	0.1	0.1	0.1	1690.6	1636.3	0.1	1853.2	1813.3	0.1	2004.4	5.0	3.1
127	0.1	1729.3	1661.8	1829.6	1829	0.1	1640.1	401.7	0.1	1169.6	4.3	2.7
128	0.1	0.1	1779.2	1614	1061.8	0.1	1805.1	1662.7	981.5	2000.8	5.0	3.0
129	0.1	0.1	0.1	1990.8	1729.4	0.1	1784.6	1837.4	0.1	1828.6	5.1	3.1
130	0.1	0.1	0.1	1794.3	1958.3	44.6	1867	1694.9	0.1	1681.1	5.2	2.6
131	0.1	0.1	0.1	1801.1	1655.5	0.1	652.7	1845.6	0.1	1856.2	5.1	2.7
132	0.1	0.1	0.1	1853.3	1636.8	0.1	2006.1	1677.5	0.1	1806.4	4.2	2.6
133	0.1	0.1	1731	1780.2	1627.7	0.1	1711.2	1846.7	0.1	1817.4	4.8	2.7
134	0.2	1765.3	525.1	2027.1	1713.7	0.1	1758.1	1707.7	0.1	1788.2	5.4	2.6
135	0.1	0.1	0.1	1625.8	1672.8	0.1	1715.3	1835.3	0.1	1814.1	4.2	2.9
136	1.5	0.1	0.2	1854.2	1777.6	0.1	1737.1	1882	627.9	1706.6	4.7	2.9
137	0.1	0.1	0.1	2010.1	1811.4	0.1	1805.9	1812.2	0.1	1659.4	4.5	2.8
138	0.1	0.1	0.1	626.6	1677.5	0.1	1851.6	1794.7	0.1	1842.8	4.9	2.6
139	0.1	0.1	0.1	1822.3	1813.2	0.1	1711.9	1793	0.1	1991.4	5.0	3.0
140	0.1	0.1	0.1	1756.8	2012.1	0.1	1799.2	1662.4	0.1	1849	4.9	2.9
141	1780	696.2	0.1	1180.8	2003.7	0.1	1801.8	1838.8	0.1	1731.7	5.4	2.8
142	0.1	0.1	0.1	1615.6	1816.3	0.1	1848.5	1813.7	0.1	1694.8	4.6	2.7
143	0.1	1695.8	1753.2	626.4	1774.5	0.1	2044.9	1854.8	0.1	1718.7	5.0	2.7
144	0.1	1691.5	1616.1	1791.8	1826.5	0.1	2019.2	1393.4	0.1	1865.8	5.2	3.0
145	0.1	1779	0.1	697.2	1848.2	0.1	1997.4	1786.1	0.1	1790	4.5	2.9
146	0.1	1615.5	1755.6	1775.8	1861.9	606.6	1743.9	1237.5	0.1	1843.6	4.4	2.7
147	0.1	0.1	0.1	1623.2	1846.8	0.1	1810.6	1620.2	0.1	2007.4	5.6	2.7
148	0.1	0.1	0.1	1719.2	1865.6	44.4	1974.6	1803.9	0.1	1872.7	4.7	2.7
149	672.3	0.1	0.1	1841.4	0.1	0.1	2001	1776.8	0.1	1639.7	4.8	2.8
150	0.1	781.3	0.1	1780.4	1756.5	0.1	1174.5	1717.2	0.1	1971.5	5.0	3.3



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151	0.1	0.1	0.1	2009.2	1791.1	0.1	1853	1626.2	0.1	1713.5	5.1	3.0
152	0.1	0.1	0.1	1855.1	1843.1	0.1	1260.5	2040.9	0.1	1779.8	5.2	2.7
153	0.1	0.1	0.1	2020.8	1776	0.1	1816.7	1805.8	0.1	1657.6	5.0	3.0
154	0.1	0.1	0.1	1708	1867.7	0.1	1855.4	2035.1	0.1	1731.5	5.3	2.9
155	0.1	0.1	1029.4	1829.1	2009.1	0.1	1819.5	1824.4	0.1	1629.2	4.7	2.7
156	0.1	0.1	1026.8	1779.9	1624.3	0.1	1845	2010.6	0.1	1642.4	4.9	2.7
157	1727.5	0.1	0.1	1846.5	1664.9	0.1	347.4	1807.4	0.1	1839.7	4.9	3.0
158	0.1	800.9	0.1	1955.3	1756.7	0.1	1782.7	1672.2	0.1	1628.2	5.3	3.0
159	0.1	0.1	0.1	1812.3	1712.2	0.1	1024.2	1819.2	0.1	2001.1	5.0	3.1
160	800.8	1738.1	0.1	1782.4	1853.4	0.1	1828.5	1829.2	0.1	1660.7	5.3	2.9
161	0.1	0.1	0.1	1820	1037.8	0.1	1628.1	1080.6	0.1	1807.9	5.1	2.9
162	0.1	1690.5	0.1	1851.7	1805.5	0.1	2015.5	1618.4	0.1	1850	4.9	2.7
163	831.9	0.1	1736.9	1834.6	1630.4	0.1	1725.2	1980.9	0.1	1671.8	5.3	2.7
164	0.1	932	0.1	1782.4	1821.7	0.1	1847.9	1626.2	0.1	1810.9	4.6	2.7
165	0.1	0.5	0.1	1777.6	2019.8	0.1	1582.3	1854.3	1198.3	998.4	4.8	2.8
166	0.1	0.1	0.1	1677.6	1772.9	0.1	1626.8	1840.2	0.1	1806	4.8	2.9
167	0.1	0.1	0.1	1551.5	1699	0.1	1853.7	1796.9	0.1	2015.4	5.2	3.0
168	0.1	1749.4	1672.8	1824.6	1822.9	0.1	1627.2	1724.9	0.1	1833.1	5.2	2.9
169	0.1	0.1	1726	1809.2	1169.5	0.1	1969	1729.3	800.8	1837.8	4.6	2.7
170	0.1	0.1	1693.4	1891.6	1765.9	0.1	1806.2	1852.9	0.1	1976.9	4.6	2.8
171	0.1	0.1	0.1	1806.1	2020.9	1152.8	1793.1	1705.4	0.1	1855.3	5.4	2.8
172	0.1	0.1	1614.4	1840.4	1671.6	0.1	818.5	1773.9	0.1	1726.5	4.8	2.6
173	0.1	0.1	0.1	1801.3	1626.2	0.1	2017.8	1696.8	0.1	1792.2	5.1	3.0
174	0.1	0.1	1690	1782.3	1688.4	0.1	1864.9	1808.9	0.1	2005.8	4.7	2.8
175	0.1	0.1	947.9	1615.6	1730.4	0.1	1864.8	1683.4	0.1	2014.2	4.3	2.8
176	0.1	0.2	0.1	1694.2	1603.4	0.1	1862.2	1810.7	0.1	1829.6	4.9	2.6
177	0.1	0.1	0.1	1999.1	1783.2	0.1	1651.7	1848.3	1023.3	1804	4.7	2.8
178	0.1	0.1	0.1	1995.1	1811.2	0.1	1791.9	1821	0.1	1694	5.1	2.7
179	0.1	0.1	0.1	818.4	1617	0.1	1714.8	1835.4	0.1	1784.4	4.9	2.6
180	0.1	0.1	0.1	1823.3	1823.9	0.1	1621.9	1819.4	0.1	1995.6	5.0	2.6
181	0.1	0.1	0.1	1707.1	1834.4	0.1	1801	1862.5	0.1	1806.2	5.3	2.9
182	1723.8	955.4	0.1	354.6	0.1	0.1	1847.1	1788.4	0.1	1092.9	5.5	2.6
183	0.1	0.1	0.1	1636.8	1816.4	0.1	1850.6	1797.1	0.1	1695.9	5.5	2.9
184	0.1	0.1	1790.8	992.4	1824.4	0.1	1804.6	1810.7	0.1	1619	5.5	2.7
185	0.1	1750.2	1624.3	1821.1	1829	0.1	2012.3	1079.9	0.1	1835.6	5.1	2.8
186	0.1	1713.1	0.1	1122.9	1020.9	0.1	1814.6	1627.1	0.1	1826.8	5.3	2.7
187	0.1	0.1	1673.4	1866.1	1785.1	1927.5	1381	598.2	0.1	1810.1	4.4	2.7
188	0.1	1647.9	0.1	1620.7	0.1	0.1	1846.7	1631.5	0.1	1808.9	5.5	2.9
189	0.1	0.1	0.1	1655.3	1799.5	895.2	1815.7	1849.9	0.1	2002.9	5.5	2.6
190	923.3	0.1	0.2	1106.5	1697	0.1	1811	1825.2	0.1	1686.2	5.3	2.8
191	0.1	832.5	0.1	1780.1	1749.7	0.1	1722.4	1830.7	0.1	1975.3	4.9	2.7
192	0.1	0.1	0.1	2003.3	1859	0.1	1749.3	1676.2	0.1	1849.3	5.6	2.7
193	0.1	0.1	0.1	1839.5	1806.6	0.1	1128.4	2005.6	0.1	1792.9	5.0	2.7
194	0.1	0.1	0.1	2002.5	1749.9	0.1	1823	1845	0.1	1655.7	5.4	2.9
195	0.1	0.1	0.1	1984	0.1	0.1	1822.6	1877.7	0.1	1787.7	4.3	2.8
196	0.1	0.1	332.9	1696	1980.6	0.1	1798.7	1891.9	0.1	1652.6	5.1	3.0
197	0.1	0.1	409.8	1842.6	1671.8	0.1	1858.7	1987	0.1	1761.8	5.0	2.6
198	1846.9	0.1	1653.8	1856.4	0.1	0.1	1269.8	1861.7	0.1	1703.9	4.9	2.7
199	0.1	300.9	0.1	1980.7	1850.5	0.1	1813.1	1668.9	0.1	1699.8	4.2	3.2
200	0.1	0.1	0.1	1889.9	1852	0.1	1289.9	1805.2	0.1	1983.2	5.2	2.7



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201	326	1853.9	0.1	1798	0.1	0.1	1694.6	1768.4	0.1	1664.8	5.1	3.5
202	0.1	1670.5	0.1	2020.7	1272.1	0.1	1755.6	424.9	0.1	1780	5.0	3.1
203	0.1	1695.3	1599.8	2008.6	1850.3	0.1	1792.1	1839.6	0.1	1587.6	5.3	2.9
204	325.6	0.1	1825.6	1762.7	1690.9	0.1	1281.7	1992.5	0.1	1678	5.0	2.9
205	0.1	303	0.1	1804.6	1693.1	0.1	1849.5	1653.2	0.1	1883.2	5.3	2.7
206	0.1	0.1	0.1	1883.7	1989.8	0.1	1776.8	1697.4	367.7	1294.2	5.1	2.8
207	0.1	0.1	0.1	1689.2	1843.2	0.1	1666.2	1772.9	0.1	1802.3	4.6	2.8
208	0.1	0.1	0.1	1762.4	1649.4	0.1	1859.7	1862	0.1	2028.2	4.1	3.3
209	0.1	0.1	0.1	1783.8	1671.7	0.1	1683	1271.8	1839.4	1766.4	4.7	2.8
210	0.1	0.1	1818.9	1705.1	479.8	0.1	2032.1	1768.4	452.4	1865.6	5.4	2.7
211	0.1	0.1	1667.9	1874.5	1299.6	0.1	1844.6	1766.7	0.1	1995.1	5.6	2.9
212	0.1	0.1	0.1	1800.9	1990	672.3	1841.2	1655.9	0.1	1784.1	5.1	2.6
213	0.1	0.1	0.1	1853.2	1693.8	0.1	473	2024.2	0.1	1776.8	4.7	3.1
214	1790.9	0.1	0.1	1865.3	1698	0.1	2040.7	1647.8	0.1	1863.6	5.3	2.6
215	0.1	0.1	1714.9	1799.7	1647.2	0.1	1840.2	1800.7	0.1	1997.5	4.6	3.1
216	0.1	1705.3	922.9	1821.4	1668.7	0.1	1697.3	1641.2	0.1	1811.7	5.2	2.9
217	0.1	0.1	0.1	1641.5	1659.6	0.1	1844.7	1806.3	0.1	1824.8	5.3	2.7
218	0.1	0.1	0.1	1775.9	1785.7	0.1	465.6	1261.5	503.5	2026.5	5.2	3.0
219	0.1	0.1	0.1	1898.1	1789.3	0.1	1841.3	2006.1	0.1	1293	4.3	2.9
220	0.1	0.1	0.1	385.5	1672.8	0.1	1783.6	1881.4	0.1	2001.1	5.1	3.3
221	0.1	0.1	0.1	1821.1	1803.5	0.1	1691.7	1799	0.1	1999.1	4.4	2.6
222	0.1	0.1	0.1	1760.2	1806.1	0.1	1821.3	1850.5	0.1	1804.9	5.0	3.9
223	1771.4	704.9	0.1	1183.2	1826.4	0.1	1784.2	1844.2	0.1	1732.5	4.9	2.7
224	0.1	0.1	0.1	1604.9	1788.9	0.1	1598.6	1856.9	0.1	1699.8	4.5	3.0
225	0.1	1627.2	1763.3	764.1	1980.1	0.1	1820.4	1843.9	0.1	1646.6	4.8	3.1
226	0.1	1705.2	0.1	2012.9	1624.6	0.1	1850.6	1420.1	0.1	1871	5.2	3.4
227	0.1	1798.9	0.1	472.5	1761.6	0.1	1852.6	1864.8	0.1	1714.7	4.4	2.5
228	0.1	0.1	1775.6	1787	0.1	652	1857.5	1741.7	0.1	1836.7	4.5	2.9
229	0.1	0.1	0.1	1647.5	1846.4	0.1	1807.1	1625	0.1	1820.4	4.0	2.8
230	0.1	0.1	0.1	1652.8	1863.2	686.3	2040.3	1737.1	0.1	1832.9	4.6	3.4
231	652.5	0.1	0.1	1735.4	1845.3	0.1	2031.2	1652.9	0.1	1659.9	5.2	3.0
232	0.1	680.9	0.1	1800.5	1791.7	0.1	1186.6	1741.3	0.1	1986.4	4.9	2.8
233	0.1	0.1	0.1	2011.8	1796.9	0.1	1851.9	1603.9	0.1	1742.1	5.0	2.8
234	0.1	0.1	0.1	1867.3	1853.3	0.1	1755	2045.6	0.1	1772.7	5.1	3.3
235	0.1	0.1	0.1	1814.1	1740.5	0.1	2006.6	1835.3	0.1	1660.5	5.0	2.9
236	0.1	0.1	0.1	2031.9	1737.3	0.1	1800.3	1848.2	0.1	1183.7	5.9	3.0
237	0.1	0.1	660.4	2041.4	1833.2	0.1	1723.8	1865.3	0.1	1724.4	5.1	3.1
238	0.1	0.1	969.1	1753.8	1605.5	0.1	1805.5	1801.9	0.1	1847.1	5.4	3.0
239	1707.6	0.1	0.1	1788	1841.8	0.1	1143.1	1994.9	0.1	1821.9	5.0	2.7
240	0.1	763.1	0.1	1981.2	1741.7	0.1	1839.2	1655.8	0.1	1650.4	6.0	2.7
241	0.1	0.1	0.1	1861.8	1790.9	0.1	467.8	1774.7	0.1	2044.4	4.9	3.1
242	504.2	1780.2	0.1	1855.6	1786	0.1	1706.9	1264.2	0.1	1660	5.8	2.5
243	0.1	1634	0.1	2050.5	248.6	0.1	951.5	1337.4	0.1	1811	4.6	2.9
244	0.1	1694	0.1	2040.9	1865.1	0.1	1853.8	1717.4	0.1	1259.4	5.7	2.8
245	504.2	0.1	1784.9	1852.3	1715	0.1	1751.3	1706.6	0.1	1647.9	5.3	2.7
246	0.1	504	0.1	1779.4	1712.8	0.1	1853.9	1719.9	0.1	1850.2	5.9	2.8
247	0.1	0.1	0.1	1772.4	2024.4	0.1	1257.7	1703.5	570.2	451.1	4.3	3.1
248	0.1	1676.7	0.1	1624.3	1709	0.1	1823.8	1696.8	0.1	1795.6	5.8	3.0
249	0.1	0.1	0.1	1840.3	1630.1	0.1	1801	1808.9	0.1	1994.2	5.1	2.7
250	0.1	1745.6	1644	1836.7	1818.5	0.1	1616.1	387.8	0.1	1178.3	5.3	2.7



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251	0.1	0.1	1757.1	1702.4	452	0.1	2028.4	1759.1	605.2	1848.4	4.2	2.6
252	0.1	0.1	0.1	1847	1196.8	0.1	1866.3	1737.6	0.1	2041.6	5.1	2.8
253	0.1	0.1	0.1	1845.6	0.1	652	2023.2	1655.6	0.1	1738.2	5.3	2.9
254	0.1	0.1	0.1	1838.3	1617.7	0.1	781.7	1782.7	0.1	1703.4	5.7	3.1
255	1764.1	0.1	0.1	1804	1817.1	0.1	2013.7	1613.9	0.1	1817.2	4.4	3.0
256	0.1	0.1	1700.1	1810.6	1688.2	0.1	1854.9	1793.9	0.1	1998.7	5.5	2.7
257	0.1	0.1	1141	1623.1	1712.4	0.1	1842.7	1667.8	0.1	1812.1	4.4	2.6
258	0.1	0.1	0.1	1648.5	1627	0.1	1851.3	1796.9	0.1	1803.7	4.9	2.9
259	0.1	0.1	0.1	1840.1	1758.4	0.1	1729.7	1854.3	729.9	1988.1	4.2	2.8
260	0.1	0.1	0.1	1835	1786.1	0.1	1858.3	2040.5	0.1	1232	5.8	2.9
261	0.1	0.1	0.1	963.6	1699.2	0.1	1848.9	1805.1	0.1	1806.3	3.9	2.8
262	0.1	0.1	0.1	1819.8	0.1	0.1	1836.7	1843.8	0.1	1968.3	4.8	2.7
263	0.1	0.1	0.1	1706.3	2013.1	0.1	1797.1	1568.9	0.1	1852.2	4.4	3.0
264	0.1	932.2	0.1	1847.8	1819.8	0.1	1810.4	1998.6	0.1	1800.9	5.0	2.6
265	0.1	0.1	0.1	1626.4	1797	0.1	1848.2	1811.8	0.1	1687.1	4.2	2.7
266	0.1	0.1	1749.5	981.3	1816.8	0.1	1598.7	1805.3	0.1	1700	5.0	2.7
267	0.1	1704	1623.8	1783.4	1861.6	0.1	2004.5	1418.5	0.1	1855.4	4.7	2.8
268	0.1	1748.5	0.1	980.2	1662.8	0.1	1824.4	1862.4	0.1	1812.4	5.1	3.1
269	0.1	0.1	1723.8	1806.9	1851	1152.6	1582	1002	0.1	1792.4	4.2	2.6
270	0.1	1653.5	0.1	1020.3	1614	0.1	1842.6	1636.7	0.1	1812.7	5.1	2.7
271	0.1	1610.3	0.1	1681.8	1848.9	949.4	1998.6	1692	0.1	1812.9	4.7	2.9
272	947.4	0.1	0.1	1080.2	1690	0.1	2014.3	1826.5	0.1	1688.6	4.3	3.1
273	0.1	955.9	0.1	1817.4	1733.5	0.1	1848.7	1803.7	0.1	1823.7	4.9	3.0
274	0.1	0.2	0.1	2008	1820.4	0.1	1834	1618	0.1	1712	4.9	2.6
275	0.1	0.1	0.1	1812.6	2022.1	0.1	1843.5	1836.4	0.1	1790.5	4.7	3.1
276	0.1	0.1	0.1	2014.6	1699.1	0.1	1855.3	1866.4	0.1	1694.5	4.7	2.7
277	0.1	0.1	0.1	1810.5	1850.4	0.1	1829.2	2004.1	0.1	1648.8	4.6	3.1
278	0.1	0.1	1019.5	1816.9	2009.2	0.1	1808.4	1814	0.1	1633.5	4.9	3.1
279	0.1	0.1	1206.9	1709	1613.5	0.1	1805.3	2015.2	0.1	1852.7	4.8	2.9
280	0.1	0.1	0.1	1792.5	1795.5	0.1	1572.9	1865.4	0.1	1621.6	4.6	3.0
281	0.1	1027.1	0.1	2008.9	1776.8	0.1	1846.5	1632.4	0.1	1654.2	4.9	3.2
282	0.1	0.1	0.1	1793	1706.4	0.1	988.8	1813.6	0.1	2005.8	4.7	2.8
283	1019.5	1769.8	0.1	1806.3	1809.5	0.1	1818.9	1041.1	0.1	1626.3	4.5	3.0
284	0.1	0.1	0.1	1851.2	1524.5	0.1	1860.4	1429.8	0.1	1786.7	4.8	2.9
285	0.1	1640.8	0.1	1829.4	1797	0.1	2025	1652	0.1	1866.1	4.9	2.8
286	1146.6	0.1	1710.5	1852.3	1678.2	0.1	1583.6	1835.2	0.1	1625.3	4.7	2.6
287	0.1	1146.6	0.1	1818.8	1821.2	0.1	1848	1617.8	0.1	1806.4	5.2	2.8
288	0.1	0.1	0.1	1790.8	1794.1	0.1	976.4	2011.7	1230	304.2	4.7	2.6
289	0.1	0.1	0.1	1669.5	1715.1	0.1	1636.7	1566.6	0.1	1812.9	5.7	3.0
290	0.1	0.1	0.1	1567.9	1625.6	0.1	1868.2	1783.2	0.1	2013.7	5.6	2.6
291	0.1	1701.5	1623.2	1818.1	1845	0.1	1666.6	1028.1	0.1	1588.7	5.1	2.5
292	0.1	0.1	0.1	1841.8	299.7	0.1	2008.8	1582.1	1198.7	1791	4.6	2.8
293	0.1	0.1	0.1	1793.6	1590.7	0.1	1810.8	1861.9	0.2	2013.5	5.4	2.6
294	0.1	0.1	0.1	1857.3	1873.4	36.1	1820	1730	0.1	1977.8	5.1	2.6
295	0.1	0.1	0.1	1819	1695.9	0.1	1183.6	1791.4	0.1	1852.5	4.9	2.9
296	1669.1	0.1	0.1	1854.9	0.1	0.1	2006.5	1616.2	0.1	1780.5	4.8	2.7
297	0.1	0.1	1709	1811.4	1684.1	0.1	1554.1	1852.2	0.1	2034	5.5	3.0
298	0.1	1705.7	1290.8	1832.8	1674	0.1	1850.1	1642.2	0.1	1801.1	4.9	2.8
299	0.1	0.1	0.1	1685.4	0.1	0.1	1858.2	1801.6	0.1	1637.9	4.6	3.0
300	0.1	0.1	0.1	1788.4	1683.1	0.1	962.8	1586.6	1263.2	2004.3	5.0	2.9





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301	0.1	0.1	0.1	2011.1	1795.1	0.1	1807.5	1852.1	0.1	1585.5	5.4	2.8
302	0.1	0.1	0.1	1263.2	1666.6	0.1	1863.3	1804.7	0.1	1777	4.9	3.0
303	0.1	0.1	0.1	1844.4	1796.4	0.1	1573	1810.2	0.1	2004.7	4.4	3.0
304	0.1	0.1	0.1	1707.2	2013.3	0.1	1812.4	1568.4	0.1	1852.2	4.6	2.7
305	0.1	1290.3	0.1	1561.9	0.1	0.1	1795	1788.8	0.1	1852.4	4.9	2.9
306	0.1	0.1	0.1	1634.7	1791.8	0.1	1539.5	1865.5	0.1	1693	5.7	2.6
307	0.1	1662.8	1696.7	1273.2	2015.3	0.1	1850.6	1794.7	0.1	1626.4	4.7	2.7
308	0.1	1701	1627.4	1777.4	1859.7	0.1	2010.7	1440.6	0.1	1865	5.3	2.6
309	0.1	1695.5	0.2	1273.1	1562.5	0.1	1790.1	1857.6	0.1	1855.6	4.6	3.2
310	0.1	0.1	0.1	1801.5	1799.4	1263	1851.9	1554.5	0.2	2023.4	5.7	2.6
311	0.1	0.1	0.1	1816.2	0.1	0.1	1795.1	1703.8	0.1	2013.2	4.6	2.6
312	0.1	0.1	0.1	1698	1865.8	34.5	1963.1	1803.9	0.1	1875.1	5.5	2.9
313	1282.9	0.1	0.1	960.5	1569.2	0.1	2027.3	1835	0.1	1663.6	4.9	2.7
314	0.1	1333.8	0.1	1800.6	1708.2	0.1	1541.3	1861.3	0.1	2020	4.9	2.9
315	0.1	0.1	0.1	2032.3	1801	0.1	1858.8	1616	0.1	1716	4.8	2.9
316	0.1	0.1	0.1	1866.3	1799.8	0.1	946.6	2039.1	0.1	1802	5.0	2.7
317	0.1	0.1	0.1	2006.6	1702.7	0.1	1844.4	1868.6	0.1	1704.3	4.6	2.9
318	0.1	0.1	0.1	1833.5	1868.3	0.1	1796.2	2030	0.1	953.7	5.1	2.6
319	0.1	0.1	1315.4	2048.6	1786.7	0.1	1856.1	1805	0.1	1806	5.1	2.8
320	0.1	0.1	1343.9	1710.2	1816	0.1	1550.5	1803.2	0.1	933.1	5.5	3.0
321	0.1	0.1	0.1	1812.1	1862.1	0.1	893.2	1785.9	0.1	1634.3	4.8	2.9
322	0.1	1289.5	0.1	2047.3	1723.3	0.1	1850.4	1651.1	0.1	1681.7	5.0	3.1
323	0.1	0.1	0.1	1796.4	1701	0.1	936.5	1817.8	0.1	2039.3	4.6	2.9
324	1290	1715.5	0.1	1805.7	1784	0.1	1833.9	1552	0.1	1640.7	4.4	2.8
325	0.1	0.1	0.1	1842.7	1513.1	0.1	1867.5	1467.7	0.1	1780.9	4.5	2.7
326	0.1	1683.1	0.1	1861.3	1869	0.1	2000.5	1627.5	0.1	1524	5.0	2.9
327	1364.5	0.1	1702	1814.7	1703	0.1	1525.8	1836.3	0.1	1609	5.3	2.9
328	0.1	1324.7	0.1	1811.6	1822.9	0.1	1850	1615.2	0.1	1803.7	5.1	2.7
329	0.1	0.1	0.1	2013.9	1835.3	0.1	1865.3	1630.2	1355.5	1526.4	5.0	2.6
330	0.1	1695.8	0.1	1619	1708.2	0.1	1831.3	1538.5	0.1	1813.8	4.6	2.9
331	0.1	0.1	0.1	1518	1638.8	0.1	1869.1	1782.8	0.1	1999	5.1	2.8
332	0.1	1704.9	0.1	1801.6	1608.6	0.1	1716.2	952.3	0.1	1542.8	4.7	2.9
333	0.1	0.1	0.1	1634.2	1545.9	0.1	1806.6	1857.7	1324.7	2038.2	4.8	2.7
334	0.1	0.1	1679.2	1811.5	262.9	0.1	1533.6	936.8	0.1	1798	4.7	2.6
335	0.1	0.1	0.1	1818.8	2035.1	1324.7	1792.8	1711.8	0.1	1826.3	5.0	2.9
336	0.1	0.1	0.1	1786.4	1702.9	0.1	1348.2	2020.4	0.1	1801	4.9	2.7
337	0.1	0.1	0.1	1821.2	1628.8	0.1	1852	1685.1	0.1	1771.2	4.9	2.8
338	0.1	0.1	1700.4	1813.7	1686.5	0.1	1515	1863	0.1	1784.2	5.3	3.0
339	0.3	0.1	1417	1626	1716.1	0.1	1521.9	1672.8	0.1	2005.2	5.8	50.9
340	0.1	0.1	0.1	1675.7	1631.9	0.1	1861.8	1823.8	0.1	1854.8	59.0	14.7
341	0.1	0.1	0.1	1998.8	1717	0.1	911.9	1525.9	1391.6	1852.1	16.9	23.9
342	0.1	0.1	0.1	2009.5	1782	0.1	1814.3	1852.7	0.1	1509.8	12.1	13.5
343	0.1	0.1	0.1	1389.4	1684.7	0.1	1865.1	1821.7	0.1	1785.5	7.4	7.2
344	0.1	0.1	0.1	1845	1771.7	0.1	1510.9	1822.6	0.1	1996	8.0	7.2
345	0.1	0.1	0.1	1681	2010.5	0.1	1865.4	866.2	0.1	1496.6	7.5	3.9
346	0.1	1433.9	0.1	1515.4	1851	0.1	1828.8	1791.8	0.1	1861.9	5.8	4.0
347	0.1	0.1	0.1	1639.4	1778.1	0.1	1857.6	1826.8	0.1	1680.8	6.6	4.8
348	0.1	0.1	1674.4	1476.3	1786.5	0.1	1631.1	1811.7	0.1	1709.8	5.6	3.3
349	0.1	1652.5	0.1	1948.4	1628.7	0.1	1937.8	1545.1	0.1	1809.4	6.0	3.3
350	0.1	1714.1	0.1	1417.4	1525.2	0.1	2002.7	1874.7	0.1	1636.2	5.7	2.9



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351	0.1	0.1	1716.7	1780	1822.8	1390.7	1856	1518.8	0.1	2021.6	5.9	3.6
352	0.1	1705.3	0.1	16.6	217.6	0.1	846.4	1924.5	0.1	1810.8	5.6	3.4
353	16.7	0.1	0.1	1719.5	1819.6	1437.1	1847.2	1870.8	0.1	2007.4	5.7	3.6
354	1462.6	0.1	0.1	1816.9	0.1	0.1	1865.2	1641.3	0.1	1713.1	6.7	3.5
355	0.1	1445.8	0.1	1789.3	1704.8	0.1	1865.5	1827.6	0.1	1842.9	7.3	3.0
356	0.1	0.2	0.1	2009.4	1829.8	0.1	1859.9	1632.1	0.1	1681.2	6.2	3.6
357	0.1	0.1	0.1	1880.5	1773.2	0.1	866.7	2012.3	0.1	1815.4	5.9	3.0
358	0.1	0.1	0.1	1785.6	1645.3	0.1	1929.4	1812.1	0.1	1724.6	5.1	4.1
359	0.1	0.1	0.1	1853.4	1865	0.1	1780.3	2001.4	0.1	880.4	5.8	3.4
360	0.1	0.1	1527.2	1984.5	1785.1	0.1	1874	1807.1	0.1	1896	5.5	3.2
361	0.1	0.1	1525.7	1665.6	1918.9	0.1	1825.6	1971.6	0.1	1860.7	5.9	3.4
362	1655.5	0.1	0.1	1786.4	1807	0.1	1495.1	2019.4	0.1	1632.3	6.7	3.1
363	0.1	1478.3	0.1	1981.9	1696	0.1	1804.1	1636.5	0.1	1706.2	6.1	3.0
364	0.1	0.1	0.1	1987.2	1656.5	0.1	853.8	1797.2	0.1	1876.1	6.2	3.1
365	1527.4	1653.2	0.1	1815.9	1781.7	0.1	1641.8	1483.4	0.1	1706	5.7	3.0
366	0.1	0.1	0.1	1926.1	0.1	0.1	1479.6	1622.7	0.1	1848.3	5.9	2.9
367	0.1	1699.6	0.1	2002.1	1868.6	0.1	1790.5	1855	0.1	1483.7	5.9	2.9
368	1464	0.1	1686.8	1865.7	1698	0.2	1502.2	2004.6	0.1	1625.6	5.4	3.3
369	0.1	1527.9	0.1	1802	1895.5	0.1	1868.1	1709.3	0.1	1794.1	5.1	3.4
370	0.1	0.1	0.1	1796.5	1984.1	0.1	1874.8	1895.7	1521.3	1496.3	6.1	3.6
371	0.1	0.1	0.1	1705.7	1654.6	0.1	1636	1872.4	0.1	1817.6	5.7	3.3
372	0.1	0.1	0.1	853.3	1895.5	0.1	1478.4	1807	0.1	1793.6	5.2	3.9
373	0.1	1640.2	1610.4	1790.7	1915.5	0.1	1719	1873.1	0.1	1814.1	5.4	3.4
374	0.1	0.1	1660.5	1877.8	865	0.1	1987.3	1492.8	1519.4	1800.3	5.6	3.1
375	0.1	0.1	0.1	1816.3	195.3	0.1	1482.4	851.7	0.1	1937.9	5.7	3.1
376	0.1	0.1	0.1	1858.4	1939.8	1521.3	1795	1722.2	0.1	1939.9	5.7	3.2
377	0.1	0.1	0.1	1786	1660.6	0.1	1541.7	1936.3	0.1	1858.6	5.6	3.0
378	0.1	0.1	0.1	1857.4	1646.9	0.1	1946.2	1735.8	0.1	1918.6	5.7	3.2
379	0.1	0.1	1651.6	1809.8	1719.2	0.1	1493.2	1865.6	0.1	1944.7	6.1	3.2
380	0.1	1636	1643.3	1939.7	1719.5	0.1	1814.3	1651.2	0.1	1785.9	6.3	2.8
381	0.1	0.1	0.1	1718.3	1630	0.1	1464.6	1812.2	0.1	1944.6	5.8	3.3
382	0.1	0.1	0.1	1941.7	1637.2	0.1	1487.9	1826.3	1569.2	1941.9	5.5	3.6
383	0.1	0.1	0.1	1940.1	1788.1	0.1	1810.7	1942.3	0.1	1483.7	5.2	3.2
384	0.1	0.1	0.1	1594.6	1694.5	0.1	1806.7	1861.8	0.1	1788.8	5.7	3.1
385	0.1	0.1	0.1	1628.2	1941.7	0.1	1484.2	1788.7	0.1	1941.6	5.0	3.7
386	0.1	0.3	0.1	1664.9	1785.6	0.1	1483.6	199.9	0.1	811.2	4.6	3.9
387	0.1	1559.3	0.1	1844.5	1648.5	0.1	1940.3	1929.1	0.1	1790.9	5.6	3.8
388	0.1	0.1	1632.5	1924.3	1852.7	0.1	1487.8	1814.5	0.1	1709.4	4.8	3.5
389	0.1	1726.3	1631.9	1578.2	1798.3	0.1	1928.2	1858.3	0.1	1640.3	4.7	3.6
390	0.1	1662	1620	1786.1	1954	0.1	1922	1620.6	0.1	1802.7	5.4	3.1
391	0.1	1631.1	0.1	1578	0.1	0.1	1792.3	1826.7	0.1	1949	5.4	3.1
392	0.1	0.1	1639.2	1792.4	0.1	1581.4	1858.7	1804.5	0.1	1929.7	5.8	2.9
393	0.1	0.1	0.1	1445.5	1812.6	0.1	1863	1747.3	0.1	1927.4	5.6	3.8
394	0.1	0.1	0.1	1726.5	1859.1	1578.4	1940.4	1803.6	0.1	1933.8	5.7	3.5
395	1582.3	0.1	0.1	1807.7	1868.1	0.1	1939.3	1655.8	0.1	1729.8	6.4	3.4
396	0.1	1580.9	0.1	1852.8	1638.8	0.1	1487.9	1817	0.1	1929.8	5.7	3.5
397	0.1	0.1	0.1	1945.7	1862.3	0.1	1808.9	1747.3	0.1	1682.4	6.0	3.0
398	0.1	0.1	0.1	1868.2	1933.9	0.1	1440.4	1954.4	0.1	1781.8	5.9	3.3
399	0.1	0.1	0.1	1927	1663.3	0.1	1947.9	1809.1	0.1	1709.5	5.4	3.5
400	0.1	0.1	0.1	1943.9	0.1	0.1	1801.5	1929.9	0.1	1471.4	5.7	3.6



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Report Date:  
**June 3, 2009**

**Timing Intervals (in seconds)**

401	0.1	0.1	1618.3	1920.8	1805.5	0.1	1436.1	1814.2	0.1	1959	5.7	3.6
402	0.1	0.1	1582.3	1638.3	0.1	0.1	1859.6	1933.1	0.1	1817	5.1	3.3
403	1649.5	0.1	0.1	1861.1	0.1	0.1	1473.5	1798.2	0.1	1934.4	6.9	3.6
404	0.1	1700.5	0.1	1937.4	1644.4	0.1	1855.9	1628.7	0.1	1725.3	4.6	3.5
405	0.1	0.1	0.1	1936.8	1634.6	0.1	1457.7	1778.1	0.1	1939.5	6.5	3.4
406	1658.4	1636.4	0.1	1862	1794.5	0.1	1603.3	1813.9	0.1	1743.9	5.1	3.8
407	0.1	0.1	0.1	1933.7	773.8	0.1	1445.4	1636.7	0.1	1786.6	5.6	3.5
408	0.1	1698.8	0.1	1859.6	1817.7	0.1	1803.9	2001.2	0.1	1420.2	4.5	3.6
409	1657.2	0.1	1636.1	1860.3	1743.8	0.1	1452.2	1954	0.1	1603.6	5.0	3.1
410	0.1	1598.4	0.1	1862	1947.9	0.1	1807.5	1631.8	0.1	1797.3	5.3	4.1
411	0.1	0.1	0.1	1782.9	1952.4	0.1	1451	1935.1	1646.1	732	5.1	3.2
412	0.1	1703.3	0.1	1628.6	1653.4	0.1	1949.9	1817.7	0.1	1858.9	4.4	4.0
413	0.1	0.1	0.1	1437.9	1626.4	0.1	1816.3	1786.2	0.1	1943.4	4.3	3.5
414	0.1	1636.1	0.1	1774	1613.1	0.1	1756.8	1439.5	0.1	1830.1	5.4	3.6
415	0.1	0.1	0.1	1609.8	0.1	0.1	1952.4	1821.3	1658.5	1925	5.5	2.9
416	0.1	0.1	0.1	1790.3	0.2	0.1	1810.4	1446.7	0.2	1934.8	5.5	3.1
417	0.1	0.1	0.1	1816.3	1785.3	1658.5	1861.4	1745.9	0.1	1932.2	5.9	3.2
418	0.1	0.1	0.1	1785.7	1651.1	0.1	1679.3	1939.5	0.1	1857.1	5.6	3.0
419	1681.1	0.1	0.1	1431	1964	0.1	1801.5	1635.4	0.1	1876.3	4.8	3.4
420	0.1	0.1	0.2	1864	1702.2	0.1	1427.2	1808.1	0.1	1849.9	5.6	3.6
421	0.1	0.2	1700.4	1625.4	1644	0.2	1807.2	1726.1	0.1	1939.3	5.8	3.2
422	0.1	0.1	0.1	1731.3	1636.2	0.1	1432.4	1819.4	0.1	1949	6.0	3.0
423	0.1	0.1	0.1	1929.7	1653.8	0.1	1455.1	1803	1712.8	1957.6	5.7	3.2
424	0.1	0.1	0.1	1938.4	1783.3	0.1	1870.8	1946.4	0.1	1432.1	7.0	3.2
425	0.1	0.1	0.1	1694	1725.4	0.2	1814.6	1865.7	0.1	1786	5.5	3.1
426	0.1	0.1	0.1	1635.4	1939.9	0.1	1450.1	1798	0.1	1944.3	6.0	3.1
427	0.1	0.1	0.1	1708.9	1854.7	0.1	1860.6	1409.7	0.1	1820	5.5	3.1
428	0.1	1716.3	0.1	744.7	1945.9	0.1	1871	1793.2	0.1	1443.3	5.9	3.0
429	0.1	0.1	0.1	1633.1	1800.1	0.1	1434.9	1812.3	0.1	1705.7	5.5	2.9
430	0.1	0.1	1636.1	1708.9	1786.7	0.1	1957.1	1857.7	0.1	1633.5	6.2	3.1
431	0.1	1684.6	0.1	1871.6	1709.9	0.1	1956.2	1881.3	0.1	1871.1	5.3	3.4
432	0.1	1656.9	0.1	1717.1	1444.5	0.1	1790.6	1800.3	0.1	1928.5	5.2	3.2
433	0.1	0.1	0.1	1784.1	1874.8	1711.8	1801.2	1445.9	0.1	1920.4	5.6	3.2
434	0.1	0.1	0.1	1405	0.1	0.1	1806.6	1663.6	0.1	1800.1	5.5	3.7
435	0.1	0.1	0.1	1739.9	1865	14.9	1963.9	1800.8	0.1	1880.8	5.0	3.3
436	1717	0.1	0.1	745.1	1439.1	0.1	1940.6	1647.2	0.1	1708.8	5.2	2.9
437	0.1	1739.7	0.1	1879.9	1662.2	0.1	1442.7	1807.3	0.1	1882.6	5.1	3.2
438	0.1	0.2	0.1	1852	0.1	0.1	1864.2	1653.7	0.1	1711.6	5.1	2.9
439	0.1	0.1	0.1	1791.1	0.1	0.1	1801.4	1970.4	0.1	1879	5.2	3.9
440	0.1	0.1	0.1	1864.6	1691.9	0.1	1968.7	1797.9	0.1	1713.8	5.1	3.1
441	0.1	0.1	0.1	1970.8	1793.3	0.1	1791.5	1871.1	0.1	1450.8	5.0	3.1
442	0.1	0.1	1716.8	1977.5	1888.3	0.1	1862.1	1815.4	0.1	1651.8	5.8	2.8
443	0.1	0.1	1816.4	1709.8	2009	0.1	1862.6	1850.8	0.1	1808.1	4.6	3.7
444	0.1	0.1	0.1	1798.7	0.1	0.1	1797.1	1851.6	0.1	1655.4	4.4	3.4
445	0.1	1716.8	0.1	1883.7	1663.7	0.1	1862.2	1640.9	0.2	1742.5	5.0	4.0
446	0.1	0.1	0.1	1879.3	1684.5	0.1	1442.9	1791.4	0.1	1639.4	5.4	3.1
447	1716.8	1657.1	0.1	1800.9	0.1	0.1	1639.4	1441.9	0.1	1736.8	4.7	3.9
448	0.1	0.1	0.1	1955.2	0.1	0.1	1797.1	1898.8	0.1	1806	4.6	3.7
449	0.1	1719.1	0.1	1990	0.1	0.1	1868.6	1665.7	0.1	1404.3	5.3	3.7
450	1716.7	0.1	0.1	1804.4	1673.1	0.1	1450.5	1882.3	0.1	1741.4	5.0	2.9



**HP BladeSystem c-Class 128P RAC  
with  
HP Oracle Exadata Storage Servers**

TPC-H Rev. 2.8.0

**Report Date:  
June 3, 2009**

**Timing Intervals (in seconds)**

451	0.1	1716.7	0.1	1784.3	0.1	0.1	1883.9	1641.6	0.1	1883.1	5.0	3.2
452	0.1	0.1	0.1	1848.6	1863.5	0.1	578.8	2001.8	26.9	110	4.6	2.9
453	0.1	0.1	0.1	1732.7	1673	0.1	1627.7	1455.3	0.1	1878.2	4.9	3.2
454	0.1	0.1	0.1	1418.4	1997.6	0.1	1814.7	1806.4	0.1	1864.5	5.2	3.1
455	0.1	1702.5	0.1	1805.3	1655.5	0.1	1712.8	1410.7	0.1	1807.9	5.1	3.7
456	0.1	0.1	0.1	1977.9	690	0.1	1871.4	1448.6	1741	1791.7	4.7	3.5
457	0.1	0.1	0.1	1878.8	175.2	0.1	1450.8	710.5	0.1	1924.2	5.7	2.9
458	0.1	0.1	0.1	1797.1	1864.1	14.2	1809.5	1694.6	0.1	1963.5	5.3	3.4
459	0.1	0.1	0.1	1867.2	1673.5	0.1	1739.4	1789.2	0.1	1809.3	5.4	3.0
460	0.1	0.1	0.1	1808.5	1659.3	0.1	1843.9	1721.4	0.1	1798.2	5.1	3.5
461	0.1	0.1	1708.7	1858.2	1712.8	0.1	1420.1	1826.8	0.1	1803.8	5.7	3.2
462	0.1	1695	1843.1	2001	1715.7	0.1	1875.1	1656.1	0.1	1801.1	5.7	3.1
463	0.1	0.1	0.1	1735.4	1629.2	0.1	1440.1	1816.4	0.1	1976.8	5.9	3.6
464	0.1	0.1	0.1	1970.3	1905.3	0.1	1793.8	1876.5	20.3	1677.5	4.9	3.6
465	0.1	0.1	0.1	1890.4	1788.6	0.1	1867.4	1977.3	0.1	1454.1	5.8	3.4
466	0.1	0.1	0.1	1750.5	1721.4	0.1	1863.3	1790.8	0.1	1885.8	5.4	3.6
467	0.1	0.1	0.1	1970.9	1791.2	0.1	1453.6	1886.1	0.1	1871.4	5.4	3.4
468	0.1	0.1	0.1	1695.1	1868.8	0.1	1871.5	1390.3	0.1	1789.4	5.3	3.7
469	0.1	1740.7	0.1	167.9	1791.8	0.1	1449	1805.9	0.1	698.9	5.3	3.5
470	0.1	0.1	0.1	1654.3	1811.4	0.1	1825.3	1872.2	0.1	1716.9	5.1	3.3
471	0.1	0.1	1675.4	1760.2	1890.3	0.1	1635.7	1805.1	0.1	1722.6	5.8	3.2
472	0.1	1679	0.1	1868.1	0.1	0.1	1679.3	1898.2	0.1	1869.7	5.2	3.1
473	0.1	1705.5	0.1	1760.3	1429.9	0.1	1803.2	1811.7	0.1	1961.7	5.0	3.4
474	0.1	0.1	1909.2	1799.4	0.1	14.3	1866.9	1810.2	0.1	1874.6	5.4	3.3
475	0.1	0.1	0.1	1405.1	0.1	0.1	1806.7	1666.8	0.1	1808	4.7	3.6
476	1664.9	0.1	0.1	1647.1	1802.2	1750.8	1879.2	1435.8	0.1	1794.2	5.3	3.3
477	1760.6	0.1	0.1	1806.4	0.1	0.1	1801.8	1970.5	0.1	1708.9	5.2	3.3
478	0.1	1758.5	0.1	1802.5	1688.1	0.1	1813.8	1873.7	0.1	1882.5	4.8	3.7
479	0.1	0.1	0.2	1849.4	1875.3	0.1	1799.1	1661.5	0.1	1701.2	5.4	3.8
480	0.1	0.1	0.1	1863.2	1862.1	0.1	1810.6	1986.3	0.1	1798.2	4.6	3.4
481	0.1	0.1	0.1	1871.1	1688.7	0.1	1955.3	1867	0.1	1717.4	5.4	3.7
482	0.1	0.1	0.1	1981.3	1805.4	0.1	1816.1	1865.2	0.1	1423.9	5.6	3.1
483	0.1	0.1	1831.5	1984.2	0.1	0.1	1867.4	1806.6	0.1	1659.2	4.9	3.6
484	0.1	0.1	1821.5	1715.7	1668.8	0.1	1809.8	1997.1	0.1	1871.6	5.5	3.5
485	0.1	0.1	0.1	1791.6	1874.8	0.1	1393.9	1882.3	0.1	2003	5.9	2.9
486	0.1	1788.5	0.1	1874.1	1702.6	0.1	1815.3	1648.6	0.1	1708.1	6.1	3.2
487	0.1	0.1	0.1	1853.8	1711.5	0.1	1411	1809.8	0.1	2006.1	5.3	3.4
488	1788.7	1691.6	0.1	1865.8	0.1	0.1	1634.7	1439.1	0.1	1719	5.5	3.6
489	0.1	2.1	0.1	1868.9	0.1	0.1	1407.2	1897.4	0.1	1872.3	5.2	3.5
490	0.1	0.1	0.1	1978.5	1866.1	0.1	1871.5	1646.6	0.1	1803	5.6	3.1
491	1788.4	0.1	1691.5	1805.9	1704.2	0.1	1429	1865.1	0.1	1633.6	5.3	3.7
492	0.1	1788.4	0.1	1863.2	1986.1	0.1	1810.2	1708.8	0.1	1798.3	5.2	3.1
493	0.1	0.1	0.1	1803.6	1850.1	0.1	1418.4	2001.8	1788.3	634.9	5.2	3.3
494	0.1	1708.1	0.1	1645.4	1703	0.1	1967.8	652.2	0.1	1813.9	4.6	3.1
495	0.1	0.1	0.1	594.6	1995.7	0.1	1396.2	1870.3	0.1	1802	5.0	3.1
496	0.1	1703.4	0.1	1858.4	0.1	0.1	1713	617.3	0.1	1814.7	5.7	3.8
497	0.1	0.1	0.1	1645.8	0.1	0.1	1989.2	1823.2	1788.1	1864.3	5.2	3.4
498	0.1	0.1	0.1	1861.2	0.1	0.1	1820	1410.3	0.1	1847.3	5.6	3.5
Min Si	0.1	0.1	0.1	3.3	0.1	0.1	6.2	5.6	0.1	3.6	3.1	2.4
Max Si	1,926.1	1,932.9	1,942.1	2,050.5	2,049.0	1,927.5	2,044.9	2,045.6	1,926.1	2,045.9	59.0	50.9
Avg Si	138.2	400.4	325.3	1,713.6	1,513.3	56.9	1,699.5	1,713.0	76.4	1,753.7	5.2	3.2