



HP Integrity Superdome 2

TPC-H Rev 2.10.0
 TPC Pricing Rev 1.5.0

Report Date:
 April 26, 2010

Total System Cost

Composite Query per Hour Metric

Price/Performance

\$1,703,613 USD

140,181.1
 QphH@1000GB

\$12.15 USD
 Price/QphH@1000GB

Database Size

Database Manager

Operating System

Other Software

Availability Date

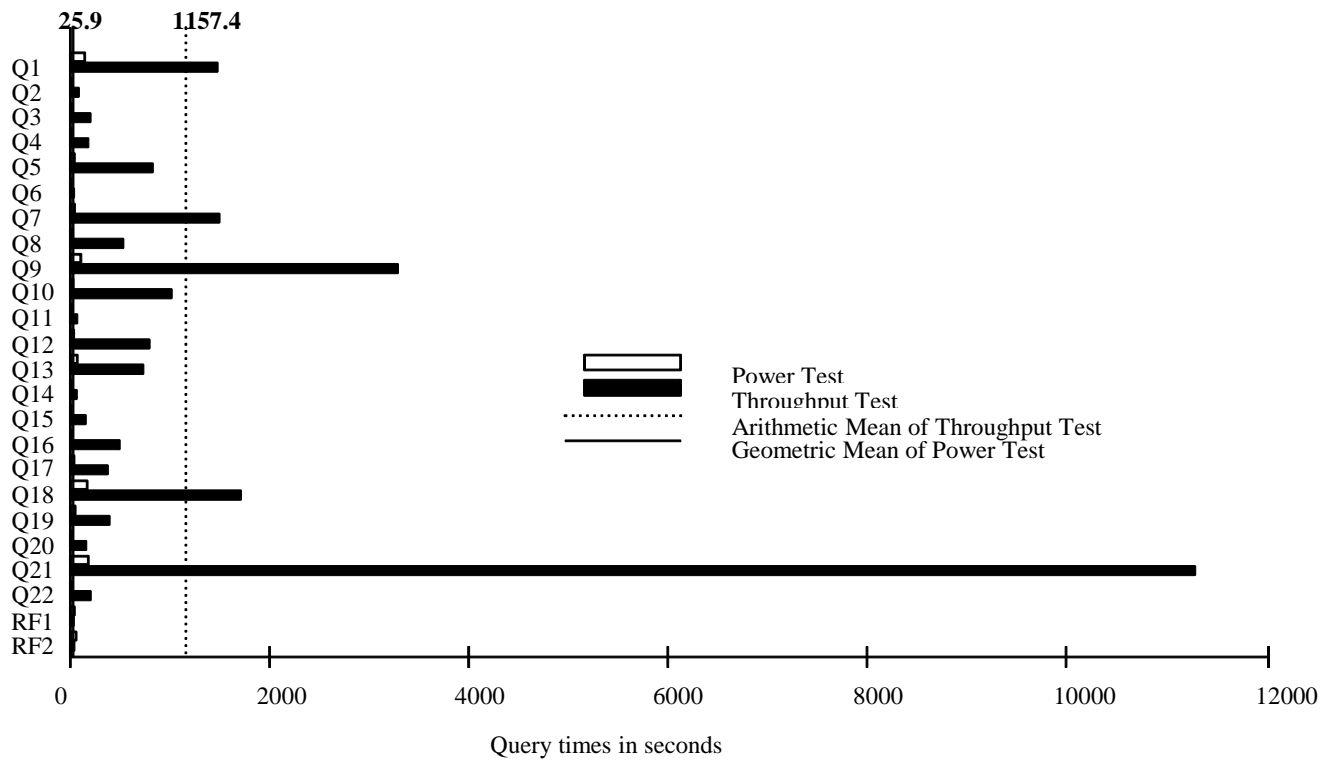
1000 GB

**Oracle Database 11g R2
 Enterprise Edition with
 Partitioning and Oracle
 Automatic Storage
 Management**

**HP-UX 11i v3
 September 2010
 Update**

None

10/20/2010



Database Load Time = 01:04:41

Load Includes Backup: N

Total Data Storage/Database Size = 42.06

Memory/Database Size Percentage = 51.2%

Storage Redundancy Level 1 for Base Tables, Auxiliary Data Structures, DBMS temporary space, and OS and DBMS Software

System Configuration

Number of Nodes: 1
 Processors/Cores/Threads/Type: 16/64/64/Intel Itanium 9350 1.73 Ghz, 24MB iL3 cache
 Memory: 512 GB
 Disk Drives: 24 HP MSA 2324 with a total of 576, 72GB disks
 1 HP MSA 2324 with a total of 4, 146GB disks
 Total Disk Storage 42056GB (In this number one GB is defined as 1024*1024*1024 bytes)
 Lan Controllers 16 Embedded LAN Cards



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Description	Part Number	Source	Reference Price	Qty	Extended Price	3 yr Maint Price
Server Hardware						
HP Superdome 2 -16s Server**	AH337A	1	56,500	1	56,500	
HP CB900s i2 1.86GHz/24MB Cell Blade**	AM253A	1	44,000	8	352,000	
HP DDR3 512GB (32x16GB) Memory Bundle**	AH407A	1	112,000	1	112,000	
HP 3y Support Plus 24 SVC - SD2-16s hw/sw**	HA110A3	1	321,742	1		321,742
HP Superdome 2 IOX Enclosure**	AH338A	1	11,850	4	47,400	
HP ProCurve 6120XG Blade Switch	AT064A	1	9,000	1	9,000	
HP Universal Rack 10642 G2 Shock Rack	AF002A	1	1,489	1	1,489	
HP 16A High Voltage Modular PDU	252663-B24	1	299	2	598	
HP 17" FlatPanel Monitor	GV537A8	1	130	1	130	
HP USB Keyboard	GM321AA#ABA	1	14	1	14	
HP Optical 4 Button USB Mouse	EW208AA#ABA	1	7	1	7	
Subtotal					579,138	321,742
Server Software						
Oracle Database 11g Release 2 Enterprise Edition, Named User Plus for 3 years		2	11,875	32	380,000	
Partitioning, Named User Plus for 3 years		2	2,875	32	92,000	
Oracle Incident Server Support Packag for 3 years		2	6,900	1		6,900
PSL HP-UX 11i Integrity 16Skt/4Core BOE LTU	BA927AC#464	1	5,450	16	87,200	
DVD media	BA927AA#AJR	1	565	1	565	
Subtotal					559,765	6,900
Storage						
5m Fibre Channel Cables	221692-B22	1	95	104	9,880	
HP 2324fc DC Modular Smart Array	AJ797A	1	8,900	25	222,500	37,825
HP PCIe 2-port 8Gb FC SR (Qlogic) HBA	AH401A	1	4,631	48	222,288	
HP 146GB 3G SAS 10K 2.5in DP ENT HDD	418367-B21	1	269	4	1,076	
HP 72GB 3G SAS 15K 2.5in DP ENT HDD	418371-B21	1	349	576	201,024	
HP Universal Rack 10642 G2 Shock Rack	AF002A	1	1,489	2	2,978	
HP 16A High Voltage Modular PDU	252663-B24	1	299	4	1,196	
HP 8/24 Base 16-ports Enabled SAN Switch	AM868A	1	6,899	1	6,899	963
HP 8Gb Shortwave B-series FC SFP+ 1 Pack	AJ716A	1	249	12	2,988	
Subtotal					670,829	38,788
Total					1,809,732	367,430
Oracle Mandatory E-Business Discount on (Licenses and Support)					(95,780)	
23 % Large Configuration Discount and Support Prepayment*					(275,194)	(102,575)
Grand Total					1,438,758	264,855
*All discounts are based on US list prices and for similar quantities and configurations					3-yr Cost of Ownership:	1,703,613
** These components are not immediately orderable. See FDR for more information					QphH@1000GB:	140,181
Source 1=HP, 2=Oracle					\$/QphH@1000GB:	12.15
Audited By: Francois Raab for InfoSizing (www.sizing.com) (www.sizing.com)						

Prices used in TPC benchmarks reflect 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 sections of the TPC benchmark specifications. If you find the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.



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Measurement Results

Database Scaling (SF/size)	1000
Total Data Storage/Database Size	42.06
Memory/Database Size Percentage	51.20%
Start of Database Load Time	04/13/10 09:51:16
End of Database Load Time	04/13/10 10:55:57
Database Load Time	1:04:41
Query Streams for Throughput Test (S)	64
TPC-H Power	139,181.0
TPC-H Throughput	141,188.3
TPC-H Composite Query-per-Hour Metric (QphH@1000GB)	140,181.1
Total System Price Over 3 Years	1,703,613
TPC-H Price/Performance Metric (\$/QphH@1000GB)	12.15

Measurement Intervals

Measurement Interval in Throughput Test (Ts)	35,901
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Duration of Stream Execution:

Power Run	Seed	Query Start Time	Duration (sec)	RF1 Start Time	RF2 Start Time
		Query End Time		RF1 End Time	RF2 End Time
	0413105557	04/13/10 11:01:10	999	04/13/10 11:00:30	04/13/10 11:17:50
		04/13/10 11:17:49		04/13/10 11:01:10	04/13/10 11:18:46

Throuput Stream	Seed	Query Start Time	Query End Time	Duration (sec)	RF1 Start Time	RF1 End Time	RF2 Start Time	RF2 End Time
1	0413105558	04/13/10 11:18:47	04/13/10 19:31:51	29,584	04/13/10 20:10:03	04/13/10 20:10:39	04/13/10 20:10:39	04/13/10 20:11:14
2	0413105559	04/13/10 11:18:47	04/13/10 18:37:33	26,326	04/13/10 20:11:14	04/13/10 20:11:46	04/13/10 20:11:46	04/13/10 20:12:21
3	0413105560	04/13/10 11:18:47	04/13/10 19:46:27	30,460	04/13/10 20:12:21	04/13/10 20:12:59	04/13/10 20:12:59	04/13/10 20:13:34
4	0413105561	04/13/10 11:18:47	04/13/10 18:10:03	24,676	04/13/10 20:13:34	04/13/10 20:13:57	04/13/10 20:13:57	04/13/10 20:14:32
5	0413105562	04/13/10 11:18:47	04/13/10 20:03:03	31,456	04/13/10 20:14:32	04/13/10 20:14:55	04/13/10 20:14:55	04/13/10 20:15:30
6	0413105563	04/13/10 11:18:47	04/13/10 15:57:48	16,741	04/13/10 20:15:30	04/13/10 20:15:53	04/13/10 20:15:53	04/13/10 20:16:28
7	0413105564	04/13/10 11:18:47	04/13/10 17:59:52	24,065	04/13/10 20:16:28	04/13/10 20:16:51	04/13/10 20:16:51	04/13/10 20:17:26
8	0413105565	04/13/10 11:18:47	04/13/10 16:49:36	19,849	04/13/10 20:17:26	04/13/10 20:17:50	04/13/10 20:17:50	04/13/10 20:18:25
9	0413105566	04/13/10 11:18:47	04/13/10 17:06:01	20,834	04/13/10 20:18:25	04/13/10 20:18:48	04/13/10 20:18:48	04/13/10 20:19:23
10	0413105567	04/13/10 11:18:48	04/13/10 17:21:11	21,743	04/13/10 20:19:23	04/13/10 20:19:46	04/13/10 20:19:46	04/13/10 20:20:21



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Duration of Stream Execution (Continued):

Throughput Stream	Seed	Query Start Time Query End Time	Duration (sec)	RF1 Start Time RF1 End Time	RF2 Start Time RF2 End Time
11	0413105568	04/13/10 11:18:48 04/13/10 16:27:34	18,526	04/13/10 20:20:21 04/13/10 20:20:46	04/13/10 20:20:46 04/13/10 20:21:21
12	0413105569	04/13/10 11:18:48 04/13/10 16:30:56	18,728	04/13/10 20:21:21 04/13/10 20:21:48	04/13/10 20:21:48 04/13/10 20:22:23
13	0413105570	04/13/10 11:18:48 04/13/10 19:25:03	29,175	04/13/10 20:22:23 04/13/10 20:22:47	04/13/10 20:22:47 04/13/10 20:23:22
14	0413105571	04/13/10 11:18:48 04/13/10 18:48:08	26,960	04/13/10 20:23:22 04/13/10 20:23:54	04/13/10 20:23:54 04/13/10 20:24:29
15	0413105572	04/13/10 11:18:48 04/13/10 17:28:19	22,171	04/13/10 20:24:29 04/13/10 20:24:56	04/13/10 20:24:56 04/13/10 20:25:30
16	0413105573	04/13/10 11:18:48 04/13/10 18:41:15	26,547	04/13/10 20:25:30 04/13/10 20:26:03	04/13/10 20:26:03 04/13/10 20:26:37
17	0413105574	04/13/10 11:18:48 04/13/10 19:29:44	29,456	04/13/10 20:26:37 04/13/10 20:27:07	04/13/10 20:27:07 04/13/10 20:27:41
18	0413105575	04/13/10 11:18:48 04/13/10 18:18:48	25,200	04/13/10 20:27:41 04/13/10 20:28:06	04/13/10 20:28:06 04/13/10 20:28:41
19	0413105576	04/13/10 11:18:48 04/13/10 19:45:56	30,428	04/13/10 20:28:41 04/13/10 20:29:10	04/13/10 20:29:10 04/13/10 20:29:44
20	0413105577	04/13/10 11:18:49 04/13/10 16:56:38	20,269	04/13/10 20:29:44 04/13/10 20:30:15	04/13/10 20:30:15 04/13/10 20:30:51
21	0413105578	04/13/10 11:18:48 04/13/10 20:02:15	31,407	04/13/10 20:30:51 04/13/10 20:31:16	04/13/10 20:31:16 04/13/10 20:31:50
22	0413105579	04/13/10 11:18:48 04/13/10 18:19:51	25,263	04/13/10 20:31:50 04/13/10 20:32:22	04/13/10 20:32:22 04/13/10 20:32:56
23	0413105580	04/13/10 11:18:49 04/13/10 18:24:04	25,515	04/13/10 20:32:56 04/13/10 20:33:27	04/13/10 20:33:27 04/13/10 20:34:02
24	0413105581	04/13/10 11:18:48 04/13/10 18:14:02	24,914	04/13/10 20:34:02 04/13/10 20:34:33	04/13/10 20:34:33 04/13/10 20:35:07
25	0413105582	04/13/10 11:18:49 04/13/10 17:49:44	23,455	04/13/10 20:35:07 04/13/10 20:35:38	04/13/10 20:35:38 04/13/10 20:36:12
26	0413105583	04/13/10 11:18:49 04/13/10 18:40:42	26,513	04/13/10 20:36:12 04/13/10 20:36:42	04/13/10 20:36:42 04/13/10 20:37:17
27	0413105584	04/13/10 11:18:49 04/13/10 18:21:52	25,383	04/13/10 20:37:17 04/13/10 20:37:48	04/13/10 20:37:48 04/13/10 20:38:23
28	0413105585	04/13/10 11:18:49 04/13/10 18:28:53	25,804	04/13/10 20:38:23 04/13/10 20:38:54	04/13/10 20:38:54 04/13/10 20:39:29
29	0413105586	04/13/10 11:18:49 04/13/10 16:57:06	20,297	04/13/10 20:39:29 04/13/10 20:39:58	04/13/10 20:39:58 04/13/10 20:40:33
30	0413105587	04/13/10 11:18:49 04/13/10 20:10:03	31,874	04/13/10 20:40:33 04/13/10 20:40:58	04/13/10 20:40:58 04/13/10 20:41:33



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Duration of Stream Execution (Continued):

Thruput Stream	Seed	Query Start Time Query End Time	Duration (sec)	RF1 Start Time RF1 End Time	RF2 Start Time RF2 End Time
31	0413105588	04/13/10 11:18:49 04/13/10 17:57:35	23,926	04/13/10 20:41:33 04/13/10 20:42:01	04/13/10 20:42:01 04/13/10 20:42:35
32	0413105589	04/13/10 11:18:49 04/13/10 18:43:05	26,656	04/13/10 20:42:35 04/13/10 20:43:05	04/13/10 20:43:05 04/13/10 20:43:44
33	0413105590	04/13/10 11:18:49 04/13/10 19:36:37	29,868	04/13/10 20:43:44 04/13/10 20:44:14	04/13/10 20:44:14 04/13/10 20:44:48
34	0413105591	04/13/10 11:18:49 04/13/10 17:41:45	22,976	04/13/10 20:44:48 04/13/10 20:45:18	04/13/10 20:45:18 04/13/10 20:45:52
35	0413105592	04/13/10 11:18:50 04/13/10 18:12:13	24,803	04/13/10 20:45:52 04/13/10 20:46:17	04/13/10 20:46:17 04/13/10 20:46:51
36	0413105593	04/13/10 11:18:50 04/13/10 18:45:23	26,793	04/13/10 20:46:51 04/13/10 20:47:19	04/13/10 20:47:19 04/13/10 20:47:53
37	0413105594	04/13/10 11:18:50 04/13/10 19:51:24	30,754	04/13/10 20:47:53 04/13/10 20:48:23	04/13/10 20:48:23 04/13/10 20:48:57
38	0413105595	04/13/10 11:18:50 04/13/10 17:49:35	23,445	04/13/10 20:48:57 04/13/10 20:49:24	04/13/10 20:49:24 04/13/10 20:49:59
39	0413105596	04/13/10 11:18:50 04/13/10 18:19:11	25,221	04/13/10 20:49:59 04/13/10 20:50:31	04/13/10 20:50:31 04/13/10 20:51:05
40	0413105597	04/13/10 11:18:51 04/13/10 18:16:45	25,074	04/13/10 20:51:05 04/13/10 20:51:36	04/13/10 20:51:36 04/13/10 20:52:10
41	0413105598	04/13/10 11:18:51 04/13/10 17:56:35	23,864	04/13/10 20:52:10 04/13/10 20:52:36	04/13/10 20:52:36 04/13/10 20:53:10
42	0413105599	04/13/10 11:18:50 04/13/10 19:15:46	28,616	04/13/10 20:53:11 04/13/10 20:53:38	04/13/10 20:53:38 04/13/10 20:54:12
43	0413105600	04/13/10 11:18:50 04/13/10 17:29:11	22,221	04/13/10 20:54:12 04/13/10 20:54:43	04/13/10 20:54:43 04/13/10 20:55:17
44	0413105601	04/13/10 11:18:53 04/13/10 17:26:31	22,058	04/13/10 20:55:17 04/13/10 20:55:49	04/13/10 20:55:49 04/13/10 20:56:23
45	0413105602	04/13/10 11:18:53 04/13/10 18:15:28	24,995	04/13/10 20:56:23 04/13/10 20:56:53	04/13/10 20:56:53 04/13/10 20:57:28
46	0413105603	04/13/10 11:18:53 04/13/10 20:05:40	31,607	04/13/10 20:57:28 04/13/10 20:57:54	04/13/10 20:57:54 04/13/10 20:58:28
47	0413105604	04/13/10 11:18:51 04/13/10 17:13:03	21,252	04/13/10 20:58:28 04/13/10 20:58:55	04/13/10 20:58:55 04/13/10 20:59:30
48	0413105605	04/13/10 11:18:51 04/13/10 19:21:10	28,939	04/13/10 20:59:30 04/13/10 21:00:02	04/13/10 21:00:02 04/13/10 21:00:36
49	0413105606	04/13/10 11:18:51 04/13/10 19:24:40	29,149	04/13/10 21:00:36 04/13/10 21:01:02	04/13/10 21:01:02 04/13/10 21:01:37
50	0413105607	04/13/10 11:18:51 04/13/10 17:37:28	22,717	04/13/10 21:01:37 04/13/10 21:02:02	04/13/10 21:02:02 04/13/10 21:02:37



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Duration of Stream Execution (Continued):

Throughput Stream	Seed	Query Start Time Query End Time	Duration (sec)	RF1 Start Time RF1 End Time	RF2 Start Time RF2 End Time
51	0413105608	04/13/10 11:18:51 04/13/10 18:34:28	26,137	04/13/10 21:02:37 04/13/10 21:03:05	04/13/10 21:03:05 04/13/10 21:03:39
52	0413105609	04/13/10 11:18:51 04/13/10 18:50:22	27,091	04/13/10 21:03:39 04/13/10 21:04:04	04/13/10 21:04:04 04/13/10 21:04:38
53	0413105610	04/13/10 11:18:51 04/13/10 18:39:35	26,444	04/13/10 21:04:38 04/13/10 21:05:02	04/13/10 21:05:02 04/13/10 21:05:36
54	0413105611	04/13/10 11:18:51 04/13/10 19:48:49	30,598	04/13/10 21:05:36 04/13/10 21:06:04	04/13/10 21:06:04 04/13/10 21:06:38
55	0413105612	04/13/10 11:18:51 04/13/10 17:42:00	22,989	04/13/10 21:06:38 04/13/10 21:07:02	04/13/10 21:07:02 04/13/10 21:07:36
56	0413105613	04/13/10 11:18:51 04/13/10 17:02:36	20,625	04/13/10 21:07:36 04/13/10 21:08:05	04/13/10 21:08:05 04/13/10 21:08:40
57	0413105614	04/13/10 11:18:51 04/13/10 16:34:50	18,959	04/13/10 21:08:40 04/13/10 21:09:11	04/13/10 21:09:11 04/13/10 21:09:45
58	0413105615	04/13/10 11:18:52 04/13/10 19:13:13	28,461	04/13/10 21:09:45 04/13/10 21:10:13	04/13/10 21:10:13 04/13/10 21:10:48
59	0413105616	04/13/10 11:18:52 04/13/10 18:36:55	26,283	04/13/10 21:10:48 04/13/10 21:11:16	04/13/10 21:11:16 04/13/10 21:11:51
60	0413105617	04/13/10 11:18:53 04/13/10 17:51:56	23,583	04/13/10 21:11:51 04/13/10 21:12:22	04/13/10 21:12:22 04/13/10 21:12:57
61	0413105618	04/13/10 11:18:52 04/13/10 17:41:23	22,951	04/13/10 21:12:57 04/13/10 21:13:20	04/13/10 21:13:20 04/13/10 21:13:55
62	0413105619	04/13/10 11:18:52 04/13/10 20:08:27	31,775	04/13/10 21:13:55 04/13/10 21:14:24	04/13/10 21:14:24 04/13/10 21:14:59
63	0413105620	04/13/10 11:18:52 04/13/10 18:34:46	26,154	04/13/10 21:14:59 04/13/10 21:15:32	04/13/10 21:15:32 04/13/10 21:16:06
64	0413105621	04/13/10 11:18:52 04/13/10 19:22:43	29,031	04/13/10 21:16:06 04/13/10 21:16:33	04/13/10 21:16:33 04/13/10 21:17:07



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TPC-H Timing Intervals (in seconds)

Duration of stream execution:

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 00	142.0	9.4	8.6	7.8	39.4	5.3	41.8	22.4	104.3	27.6	12.0	32.2
Stream 01	0.1	10.7	33.0	0.1	0.1	0.1	0.1	33.7	0.1	0.1	3.9	155.8
Stream 02	0.1	62.6	0.1	256.7	0.1	6.0	480.7	576.7	5587.2	3758.7	204.6	1323.0
Stream 03	1467.9	77.8	0.1	0.1	1570.8	80.9	3711.9	2002.7	1704.7	1942.6	135.8	108.4
Stream 04	1229.7	57.4	98.7	0.1	807.2	87.2	0.1	514.0	4788.9	0.1	9.3	1647.7
Stream 05	0.1	30.8	29.5	0.1	0.1	15.3	0.1	89.4	0.1	0.1	4.1	216.8
Stream 06	0.1	84.7	537.2	193.7	0.1	74.6	2315.5	852.3	5728.0	360.5	4.5	1419.1
Stream 07	2462.9	82.3	197.0	243.3	0.1	0.1	0.1	718.9	0.1	0.1	8.8	609.7
Stream 08	3628.0	82.9	271.1	245.4	944.6	86.0	2189.6	590.1	4431.6	2796.0	169.6	1420.8
Stream 09	0.1	95.1	268.1	337.8	1514.8	35.4	0.3	1178.9	0.1	0.3	253.5	642.5
Stream 10	2179.9	76.0	236.5	255.5	0.1	99.7	0.1	646.0	0.1	0.1	14.0	466.2
Stream 11	0.1	105.9	394.1	233.9	1552.2	97.9	0.1	574.6	0.1	2456.2	9.2	1038.6
Stream 12	4106.5	0.1	300.6	203.5	1336.1	28.5	3367.8	254.7	3071.6	0.2	93.4	753.9
Stream 13	0.1	7.4	0.1	0.1	0.1	0.1	0.1	22.6	0.1	0.1	2.9	146.6
Stream 14	2233.7	216.4	12.0	319.5	0.1	0.1	3381.7	27.5	11036.8	0.1	3.1	30.6
Stream 15	0.1	74.9	269.7	214.7	0.1	33.6	0.1	596.7	5778.2	0.1	211.5	776.5
Stream 16	3757.5	82.4	364.4	348.2	2397.2	62.4	0.1	653.1	4543.9	1103.0	139.6	1734.3
Stream 17	0.1	32.9	896.6	0.1	2150.3	8.5	0.1	49.1	0.1	0.1	289.9	44.3
Stream 18	2456.1	101.7	279.2	871.4	2244.7	73.8	1194.3	749.1	0.1	2669.5	130.5	463.8
Stream 19	0.1	56.6	22.6	896.4	1701.0	16.6	0.1	741.0	3911.9	3200.1	61.9	1874.9
Stream 20	1461.4	72.9	237.7	605.1	0.1	58.4	3585.3	689.2	4643.5	2110.4	4.2	818.3
Stream 21	0.1	22.4	0.1	0.1	0.1	0.1	0.1	108.9	194.4	0.1	4.3	0.1
Stream 22	2591.6	72.5	220.5	0.1	0.1	0.1	0.1	545.4	2308.3	2.1	236.7	1398.8
Stream 23	2336.2	85.0	34.3	0.1	731.7	0.1	0.1	628.0	4018.6	1384.3	10.2	1581.0
Stream 24	1952.7	75.1	337.4	286.1	0.1	0.1	4223.3	630.3	3754.3	2756.4	72.0	494.9
Stream 25	2042.9	70.0	308.7	0.1	925.8	0.1	0.1	772.9	3097.8	2709.8	7.2	1829.6
Stream 26	206.9	70.4	0.1	0.1	2164.7	0.1	3461.6	104.7	1612.3	1305.4	112.8	268.8
Stream 27	898.6	94.2	81.9	0.1	1709.0	0.1	2333.5	708.4	3732.6	0.1	3.2	278.1
Stream 28	2027.4	104.2	260.5	178.9	861.4	0.1	3532.0	233.8	1630.3	2259.4	3.2	659.2
Stream 29	1982.9	90.8	295.4	0.1	1211.1	42.5	3557.6	993.7	4765.8	2072.1	5.6	519.4
Stream 30	2822.2	7.2	287.8	0.1	1615.6	0.1	5155.2	22.0	3758.6	3695.4	2.9	791.0
Stream 31	2577.8	292.8	0.1	217.6	0.1	0.1	0.1	403.0	12457.5	0.1	18.7	275.0
Stream 32	2096.9	24.2	233.8	344.5	0.1	67.1	2304.4	752.9	4754.5	0.1	4.1	1412.0



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TPC-H Timing Intervals (in seconds)

Duration of stream execution:

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 33	143.1	134.4	35.0	338.3	1683.5	0.1	3221.8	25.0	437.9	0.1	208.1	25.4
Stream 34	3454.9	60.1	286.1	333.5	0.1	0.1	0.1	477.2	4402.0	0.1	209.7	1019.2
Stream 35	1500.1	42.4	0.1	0.1	58.8	0.1	0.1	1012.6	3257.1	3442.4	3.6	2004.8
Stream 36	540.9	13.1	0.1	250.4	0.1	12.3	0.1	29.2	15144.9	0.1	44.6	37.7
Stream 37	2879.6	84.8	317.7	176.9	2148.9	0.1	2790.8	542.6	4322.6	0.1	139.2	1200.2
Stream 38	1848.6	74.2	177.5	327.8	3098.3	0.1	2801.1	696.4	2930.7	2526.5	206.4	930.3
Stream 39	2086.6	27.5	1042.1	0.1	1814.7	33.1	3748.3	279.6	2072.8	0.1	3.7	280.1
Stream 40	1866.4	75.8	258.2	257.0	897.8	0.3	1461.5	628.0	3931.0	1894.6	192.0	546.5
Stream 41	0.1	292.6	385.8	201.7	0.1	35.4	2789.4	349.7	8191.0	0.1	163.6	534.1
Stream 42	0.1	10.4	21.2	0.1	0.1	0.1	0.1	26.5	185.0	0.1	3.6	82.4
Stream 43	2271.6	67.2	0.1	204.5	1151.1	154.0	3731.6	541.9	4562.4	3247.3	5.8	1396.0
Stream 44	1555.7	98.8	0.1	0.1	1799.3	76.2	3455.5	1769.1	3967.1	0.1	22.4	1863.1
Stream 45	0.1	71.9	0.1	0.1	801.2	90.5	1374.8	467.5	4375.2	0.1	7.2	1114.3
Stream 46	0.1	20.0	17.9	0.1	0.2	0.1	0.1	82.6	138.0	0.1	4.2	256.6
Stream 47	2517.7	0.2	132.6	0.1	1283.8	58.6	2634.3	583.7	5605.4	5063.9	176.7	679.1
Stream 48	0.1	22.2	10.0	0.1	0.1	0.1	0.1	507.5	0.1	0.1	20.0	36.5
Stream 49	3280.4	108.0	309.7	0.1	803.6	99.6	2654.1	756.3	5730.6	0.1	10.2	455.4
Stream 50	0.1	68.3	196.2	242.7	0.1	42.2	3315.2	1217.7	600.6	0.1	146.9	1964.2
Stream 51	1703.3	40.8	35.8	101.2	0.1	152.4	2649.9	222.3	2707.0	3500.7	5.4	1007.7
Stream 52	0.1	0.1	0.1	315.1	0.1	0.1	0.1	844.3	0.1	2358.6	25.1	779.4
Stream 53	3878.8	86.7	15.0	301.1	0.1	59.9	3663.3	568.4	3889.7	0.1	48.1	714.9
Stream 54	0.1	9.3	20.2	7.2	0.1	0.1	0.1	22.1	0.1	0.1	2.8	117.0
Stream 55	1696.7	812.5	0.1	204.1	1639.0	52.4	2949.4	600.8	5262.7	0.1	4.6	759.5
Stream 56	2461.0	80.5	328.9	0.3	0.1	32.9	0.1	693.1	5578.1	0.1	147.7	741.2
Stream 57	4178.5	83.4	226.5	251.8	2114.5	58.0	0.1	658.9	3624.9	1897.2	132.0	1212.3
Stream 58	0.1	11.6	1312.3	0.1	1678.5	12.0	0.1	46.4	0.1	0.1	4.4	54.2
Stream 59	1991.8	97.1	201.0	666.8	2554.1	0.1	0.1	627.7	1969.7	1214.0	4.2	378.7
Stream 60	2065.0	43.9	351.1	342.3	2095.8	74.6	3840.0	653.7	8424.0	0.1	7.9	1855.5
Stream 61	2849.4	67.4	205.7	263.0	1670.0	0.2	1092.5	454.4	0.1	2935.4	4.8	0.1
Stream 62	477.7	7.4	0.1	20.9	0.1	5.4	45.8	22.5	0.1	0.1	3.3	252.0
Stream 63	2417.3	98.5	109.2	210.3	0.1	0.1	2287.4	260.2	1648.7	0.1	5.8	1872.9
Stream 64	0.1	83.8	11.7	14.7	0.1	0.1	53.6	560.5	5704.0	0.1	4.7	1221.0
Minimum	0.1	0.1	0.1	0.1	0.1	0.1	0.1	22.0	0.1	0.1	2.8	0.1
Maximum	4178.5	812.5	1312.3	896.4	3098.3	154.0	5155.2	2002.7	15144.9	5063.9	289.9	2004.8
Average	1471.7	81.5	195.6	176.3	824.0	31.7	1490.0	526.4	3280.9	1010.4	65.7	790.5



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TPC-H Timing Intervals (in seconds)

Duration of stream execution:

Stream ID	Q13	Q14	Q15a	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 00	69.6	4.0	6.3	12.1	35.0	167.6	47.1	14.7	178.1	12.1	39.7	56.0
Stream 01	0.1	0.1	0.1	31.9	73.7	0.1	47.7	32.5	29143.1	18.2	35.3	35.0
Stream 02	0.1	101.2	0.1	1024.6	1734.8	0.1	774.1	214.6	9975.1	245.8	32.2	34.8
Stream 03	0.1	0.1	187.9	18.8	401.4	845.4	81.5	175.8	15761.6	184.4	38.5	35.1
Stream 04	0.1	54.5	209.7	327.8	507.3	0.1	584.7	64.7	13557.9	129.9	22.8	35.0
Stream 05	0.1	0.1	0.1	27.3	62.7	0.1	53.3	55.6	30720.6	150.9	22.9	34.7
Stream 06	1977.7	0.1	287.1	520.6	501.4	0.1	557.4	160.9	949.5	216.8	22.9	35.1
Stream 07	0.1	0.1	124.8	387.5	391.8	5616.2	489.7	96.5	12391.0	245.0	23.1	35.0
Stream 08	967.3	0.1	174.0	594.9	265.2	0.1	471.4	208.9	0.1	311.7	23.3	35.1
Stream 09	2566.3	61.1	0.1	643.6	328.0	0.1	670.9	125.4	11770.8	341.3	23.0	34.9
Stream 10	0.1	59.5	707.6	604.6	356.9	12375.6	599.3	218.8	2560.0	287.2	23.2	35.1
Stream 11	0.1	133.4	782.4	470.0	308.4	9165.0	748.5	164.5	0.1	291.5	25.2	34.8
Stream 12	0.1	68.9	0.1	408.6	257.6	0.1	850.9	211.9	3225.0	188.9	27.3	35.0
Stream 13	0.1	4.0	0.1	12.9	176.9	0.1	61.3	13.9	28685.6	41.0	23.2	35.0
Stream 14	0.1	5.2	216.3	577.7	415.6	970.9	52.7	189.9	7255.4	15.6	32.4	34.7
Stream 15	1912.2	65.0	0.1	993.3	414.6	0.1	509.6	166.5	9870.2	284.1	26.9	34.8
Stream 16	0.1	44.7	0.1	521.2	374.4	1.0	812.1	114.6	9296.1	197.0	32.1	34.2
Stream 17	0.1	5.8	0.1	836.6	67.5	0.1	58.5	21.9	24968.5	25.1	29.7	34.1
Stream 18	2728.4	83.5	85.0	153.5	560.3	0.1	787.5	236.0	9253.4	77.9	25.3	34.6
Stream 19	0.1	54.6	116.7	523.2	188.7	0.1	56.5	20.2	16710.6	274.5	28.8	34.2
Stream 20	2449.3	91.5	272.5	1047.1	282.2	1000.4	507.8	184.3	0.1	148.5	31.6	35.3
Stream 21	0.1	169.6	0.1	57.8	121.6	0.1	102.0	766.5	29783.1	76.3	24.9	34.5
Stream 22	2733.3	81.4	150.0	1046.4	49.9	0.1	599.6	137.1	12807.3	282.0	31.6	34.5
Stream 23	0.1	101.3	0.1	751.2	254.9	13182.5	60.0	27.3	0.1	328.8	30.3	34.7
Stream 24	0.1	107.3	0.1	231.0	200.3	0.1	267.2	244.8	8984.5	295.5	31.5	34.3
Stream 25	0.1	49.8	0.1	753.4	552.0	5614.3	453.7	193.7	3746.3	327.8	30.6	34.3
Stream 26	3042.9	63.9	0.1	20.8	101.1	0.1	98.0	160.9	13513.8	204.2	30.1	34.6
Stream 27	0.1	81.8	0.1	185.4	1284.6	0.1	75.0	40.7	13608.4	267.4	31.0	34.3
Stream 28	1745.8	76.0	0.1	590.4	349.3	0.1	257.2	219.8	10511.6	303.8	31.6	34.6
Stream 29	0.1	87.3	230.2	626.2	428.8	2247.1	715.9	156.0	0.1	268.6	29.4	34.4
Stream 30	0.1	67.3	0.1	40.9	259.7	1305.3	186.8	13.5	11619.4	223.3	25.2	34.6
Stream 31	0.1	20.2	92.7	552.4	274.8	0.1	501.1	137.0	5987.3	117.6	28.2	34.3
Stream 32	2234.2	0.1	1100.8	500.5	399.1	3035.8	64.0	22.1	7006.5	298.8	29.7	39.3



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TPC-H Timing Intervals (in seconds)

Duration of stream execution:

Stream ID	Q13	Q14	Q15a	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 33	0.1	46.9	1111.2	848.8	542.9	0.1	45.8	97.0	20907.9	15.0	29.8	34.3
Stream 34	2155.7	60.4	0.1	548.5	339.3	0.1	423.8	205.9	8740.1	259.1	29.0	34.3
Stream 35	0.1	83.0	0.1	722.2	1407.8	0.1	231.0	243.9	10440.2	353.0	25.0	34.3
Stream 36	0.1	5.3	0.1	26.2	429.1	0.5	49.0	21.2	10044.8	144.5	27.7	34.4
Stream 37	2881.0	88.9	0.1	537.4	361.4	0.1	485.5	36.3	11614.5	145.7	29.9	34.1
Stream 38	0.1	123.1	0.1	764.2	535.9	0.1	713.3	407.3	5043.4	239.8	26.6	34.5
Stream 39	0.1	58.0	124.9	527.8	129.5	0.2	721.6	198.4	11999.3	73.2	32.2	34.1
Stream 40	2879.2	49.8	0.1	510.1	384.3	0.1	184.3	173.1	8712.5	171.7	30.7	34.1
Stream 41	1.5	110.5	241.0	557.6	243.0	0.1	663.6	107.3	8682.2	314.0	26.2	34.3
Stream 42	0.1	5.6	0.1	15.3	54.2	0.1	54.9	29.5	28114.4	13.4	27.2	34.1
Stream 43	1569.2	83.5	142.0	756.8	1342.5	0.1	569.7	144.3	0.1	278.9	30.7	34.5
Stream 44	1221.4	54.2	0.1	603.6	399.0	4123.0	601.0	227.9	0.1	220.5	31.3	34.4
Stream 45	1140.1	77.6	176.7	358.2	504.8	0.1	575.0	55.8	13716.8	87.8	30.5	34.3
Stream 46	0.1	9.4	0.1	25.0	62.4	0.1	98.7	53.0	30806.4	33.2	26.1	34.0
Stream 47	0.1	76.1	119.5	545.2	569.4	0.1	752.1	179.9	0.1	274.0	27.4	34.6
Stream 48	0.1	10.3	0.1	26.6	51.6	12541.2	54.6	190.9	15443.1	25.2	31.7	34.4
Stream 49	0.1	51.7	167.5	645.9	269.1	0.1	959.2	228.2	12211.6	408.0	25.9	34.5
Stream 50	2668.5	48.6	0.1	428.3	341.2	0.1	548.1	126.0	10519.4	242.9	25.7	34.3
Stream 51	0.1	49.8	635.7	76.3	369.0	4823.7	97.6	36.1	7744.3	178.0	28.3	34.2
Stream 52	0.1	109.1	1331.6	589.2	406.1	11738.8	49.3	193.8	8060.4	290.1	25.2	33.9
Stream 53	0.1	8.3	35.9	714.5	274.8	4009.0	61.9	200.6	7674.3	238.4	23.1	34.0
Stream 54	0.1	4.0	0.1	12.1	81.3	0.1	47.7	12.9	30247.2	14.4	28.1	34.4
Stream 55	1849.9	64.8	123.4	422.8	290.7	2158.2	638.9	111.5	3146.9	199.7	24.0	34.2
Stream 56	0.1	87.9	0.1	1239.2	411.1	0.1	778.3	239.0	7474.2	331.2	28.7	34.6
Stream 57	2121.9	58.2	183.3	670.6	403.7	0.1	778.0	85.5	0.1	219.7	31.3	34.2
Stream 58	0.1	0.1	0.1	888.5	53.0	0.1	56.2	45.5	24229.1	69.3	27.2	35.3
Stream 59	2175.6	132.1	40.4	51.6	427.1	0.1	443.1	181.5	13100.8	26.5	27.8	34.6
Stream 60	0.1	90.9	100.3	505.0	284.9	0.1	692.6	190.0	1552.6	413.0	31.2	35.4
Stream 61	1648.7	82.3	0.2	1425.6	490.2	8867.4	478.1	163.5	0.1	252.4	23.2	34.1
Stream 62	0.1	96.4	0.1	12.6	53.6	0.1	51.3	890.5	29820.2	15.2	29.6	34.4
Stream 63	1793.9	87.9	101.7	1274.8	56.6	0.3	674.0	76.7	12895.8	282.4	33.4	34.2
Stream 64	0.1	47.1	199.1	23.1	164.1	5610.8	65.7	17.2	15006.1	244.3	26.4	34.4
Minimum	0.1	0.1	0.1	12.1	49.9	0.1	45.8	12.9	0.1	13.4	22.8	33.9
Average	3042.9	169.6	1331.6	1425.6	1734.8	13182.5	959.2	890.5	30806.4	413.0	38.5	39.3
Maximum	726.1	57.8	149.6	491.2	370.0	1706.8	387.5	155.7	11275.2	199.1	28.2	34.6