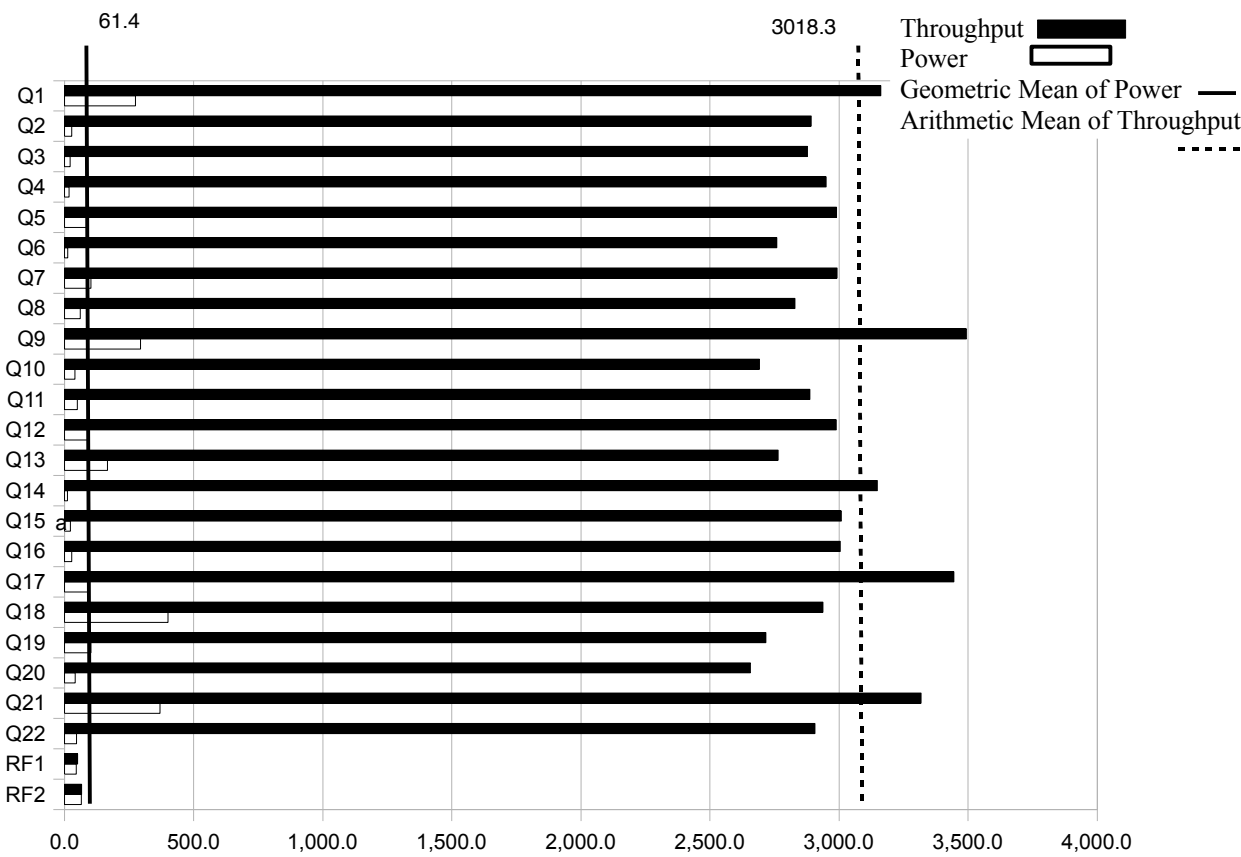


		Sun SPARC Enterprise M9000 with Oracle Database 11g Release 2 Enterprise Edition		TPC-H Rev. 2.9.0 TPC-Pricing Rev 1.5.0
				April 10, 2010
Total System Cost		Composite Query per Hour Metric		Price/Performance
\$4,515,692		188,229.9 QphH@3000GB		\$23.99 \$/QphH@3000GB
Database Size	Database Manager	Operating System	Other Software	Availability Date
3000GB	Oracle Database 11g Release 2 Enterprise Edition with Partitioning and Automatic Storage Management	Solaris 10	None	April 10, 2010



61.4 3018.3

Throughput 

Power 

Geometric Mean of Power —

Arithmetic Mean of Throughput - - - - -

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 RF1 RF2

0.0 500.0 1,000.0 1,500.0 2,000.0 2,500.0 3,000.0 3,500.0 4,000.0

Query Time in seconds

Database Load Time = 4:43:25 Load Includes Backup: N Total Data Storage/Database Size = 80.7 Memory to Database Size Percentage = 17.1	Storage Redundancy Levels: Base Tables: Level One Auxiliary Data Structures: Level One DBMS Temporary Space: Level Zero OS and DBMS Software: Level Zero
---	--

System Configuration:	Sun SPARC Enterprise M9000 Server
Processors:	32 SPARC64 VII 2880 MHz processors, 128 cores, 128 threads
Memory:	512GB memory
Disks:	32 Sun Storage J4200 Arrays (32x12x600GB), 2 Sun Storage 6180 arrays (2x16x300GB) 1 Sun Storage F5100 Flash Array (80x24GB), 2 internal SAS disks (2x 146GB)
Total Storage:	242,212GB (in this calculation one GB is defined as 1024*1024*1024 bytes)



**Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition**

**TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0**

April 10, 2010

Description	Part Number	Source	Unit Price	Qty	Ext. Price	3 Yr. Maint.
Server Hardware						
Sun SE M9000-32 Base 1ph	SEHASY11Z	1	275,000	1	275,000	
SE_CMU:4*SPARC64VII+@2.8GHz w/64GB	SEMY4HE1Z	1	314,000	8	2,512,000	
SE_PCI_E IO Unit: 8*slots	SEMY61Z	1	18,000	8	144,000	
PWR Cord 1PHs M8000-9000 USA (included)	SEMX9P31Z	1	0	5	0	
PCI-E Base IO Card	SEMY7BS1Z	1	1,995	2	3,990	
SE_146GB 10K RPM 2.5" SAS	SEMY3B11Z	1	645	2	1,290	
8-port External SAS HBA	SG-XPCIE8SAS-E-Z	1	550	40	22,000	
8GB PCIe FC Dual Host Bus Adapter, qlogic	SG-XPCIE2FC-QF8-Z	1	2,399	2	4,798	
Oracle Premium Hardware Support	Q-PREM-SPRT-SYS	1	355,569	3		1,066,708
Sun Ultra 27 Workstation ATO Base	B27-AA	1	775	1	775	
SATA 500GB 7,200 RPM	RB-ST1CE-500G7K	1	309	1	309	
ATO U27 SATA DVD-Dual	4133A-Z	1	110	1	110	
Nvidia Quadro FX1800 Graphics Accelerator	3919A	1	545	1	545	
PCI-E Dual GigE UTP	X7280A-2	1	269	1	269	
17" LCD Monitor	X7204A	1	219	1	219	
ATO 1x2GB 1333MHz Ultra 27 WS	3914A	1	145	1	145	
Keyboard Type 7 US UNIX	X3738A	1	50	1	50	
ATO Intel Xeon Processor 3540 2.93GHz	3912A	1	995	1	995	
Oracle Premium Hardware Support	Q-PREM-SPRT-SYS	1	410	3		1,230
Server Hardware Subtotal					2,966,495	1,067,938
Storage						
J4200 CHASSIS - RR	TA4200R00A10DISK	1	2,675	32	85,600	
3.5" 600GB SAS 15K RPM HDD	XTA-SS1NJ-600G15K	1	1,399	384	537,216	
J4200 2U Univ Rk Rail Kit	XTA-4200-2URK-19U	1	125	32	4,000	
Jumper Cable Kit: 1 x 1m C13	XSR-JUMP-1MC13	1	23	64	1,472	
6m, Mini, shielded, SAS cable	XTA-6.0-SAS-N	1	325	40	13,000	
Power Cord for StorEdge	X3858A	1	0	64	0	
ST6180 w/ 4GB cache & 16 300GB 15K disks	XTA6180R11A2J4800	1	62,195	2	124,390	
15M Fibre Channel Cable	9724A-Z	1	190	4	760	
Sun Storage F5100 Flash Array (80x24GB)	TA5100RASA4-80AA	1	159,995	1	159,995	
Sun Rack II 42U	XSR-1242E	1	2,849	2	5,698	
PDU 15kVA, Single Phase, LV	XSR-15K-L630	1	1,200	2	2,400	
Oracle Premium Hardware Support	Q-PREM-SPRT-SYS	1	112,144	3		336,431
Storage Subtotal					934,531	336,431
Server Software						
Solaris 10 Pre-install	SOLZS-10LC9A9S-IP	1	0	1	0	
Ultra 27 Solaris Pre-install	3922A	1	0	1	0	
Sun Studio 12	SSSM9-121-T9DM	1	10	1	10	
Oracle Database 11g Release 2 Enterprise Edition, Named User Plus for 3 years		1	11,875	96 ±	1,140,000	
Partitioning, Named User Plus for 3 years		1	2,875	96 ±	276,000	
Incident Server Support for 3 years		1	2,300	3		6,900
Server Software Subtotal					1,416,010	6,900
Total					5,317,036	1,411,269
Oracle Mandatory E-Business Discount		1			(355,725)	
Total Oracle Hardware and Hardware Maintenance Discount		1			(1,856,888)	
3 Yr. Cost					\$4,515,692	
QphH @3000GB					188,229.90	
\$/QphH @3000GB					\$23.99	

Notes (Source):

1. Oracle Corp.

± 96 = 0.75 * 128. Explanation: For purposes of counting the number of processors which require licensing, a SPARC 64 VII multicore chip with "n" cores shall be determined by multiplying "n" cores by a factor of 0.75

Audited by: François Raab, InfoSizing, Inc. (www.sizing.com)

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the standard components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchase 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 that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.



Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition

TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0

April 10, 2010

Numerical Quantities

Measurement Results:

Database Scale Factor	= 3000GB
Total Data Storage / Database Size	= 80.7
Start of database load time	= 02-20-2010 12:08:26
End of database load time	= 02-20-2010 16:51:51
Database Load Time	= 4:43:25
Query Streams for Throughput Test	= 64
TPC-H Power	= 175,850.0
TPC-H Throughput	= 201,481.3
TPC-H Composite Query-per-Hour Rating (QphH@3000GB)	= 188,229.9
Total System Price Over 3 Years	= \$4,515,692
TPC-H Price/Performance Metric (\$/QphH@3000GB)	= \$23.99

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 75,473 seconds
--	------------------

Duration of Stream Execution:

Power Run	Seed	RF1 Start RF1 End	Query Start Query End	RF2 Start RF2 End	Duration
	220165151	02/21/2010 14:50:23 02/21/2010 14:51:07	02/21/2010 14:51:08 02/21/2010 15:30:24	02/21/2010 15:30:24 02/21/2010 15:31:29	00:41:06
Throughput Stream	Seed	Query Start Query End	Duration	RF1 Start RF1 End	RF2 Start RF2 End
1	220165152	02/21/2010 15:31:38	17:50:56	02/22/2010 10:26:16	02/22/2010 10:27:01
		02/22/2010 09:22:33		02/22/2010 10:27:01	02/22/2010 10:28:04
2	220165153	02/21/2010 15:31:38	17:50:56	02/22/2010 10:28:04	02/22/2010 10:28:52
		02/22/2010 09:22:33		02/22/2010 10:28:52	02/22/2010 10:29:56
3	220165154	02/21/2010 15:31:38	17:51:19	02/22/2010 10:29:56	02/22/2010 10:30:38
		02/22/2010 09:22:57		02/22/2010 10:30:38	02/22/2010 10:31:41
4	220165155	02/21/2010 15:31:38	18:01:28	02/22/2010 10:31:41	02/22/2010 10:32:21
		02/22/2010 09:33:06		02/22/2010 10:32:20	02/22/2010 10:33:24



Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition

TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0

April 10, 2010

Duration of Stream Execution (continued):

Throughput Stream	Seed	Query Start	Duration	RF1 Start	RF2 Start
		Query End		RF1 End	RF2 End
5	220165156	02/21/2010 15:31:38	18:09:41	02/22/2010 10:33:24	02/22/2010 10:34:02
		02/22/2010 09:41:19		02/22/2010 10:34:02	02/22/2010 10:35:05
6	220165157	02/21/2010 15:31:38	17:50:55	02/22/2010 10:35:06	02/22/2010 10:35:47
		02/22/2010 09:22:33		02/22/2010 10:35:47	02/22/2010 10:36:51
7	220165158	02/21/2010 15:31:38	17:59:35	02/22/2010 10:36:51	02/22/2010 10:37:34
		02/22/2010 09:31:13		02/22/2010 10:37:34	02/22/2010 10:38:38
8	220165159	02/21/2010 15:31:38	18:04:09	02/22/2010 10:38:38	02/22/2010 10:39:19
		02/22/2010 09:35:47		02/22/2010 10:39:19	02/22/2010 10:40:23
9	220165160	02/21/2010 15:31:38	18:18:50	02/22/2010 10:40:23	02/22/2010 10:41:00
		02/22/2010 09:50:28		02/22/2010 10:41:00	02/22/2010 10:42:04
10	220165161	02/21/2010 15:31:38	17:51:15	02/22/2010 10:42:04	02/22/2010 10:42:44
		02/22/2010 09:22:54		02/22/2010 10:42:44	02/22/2010 10:43:48
11	220165162	02/21/2010 15:31:38	18:09:35	02/22/2010 10:43:49	02/22/2010 10:44:30
		02/22/2010 09:41:14		02/22/2010 10:44:30	02/22/2010 10:45:33
12	220165163	02/21/2010 15:31:39	17:51:11	02/22/2010 10:45:33	02/22/2010 10:46:17
		02/22/2010 09:22:49		02/22/2010 10:46:17	02/22/2010 10:47:21
13	220165164	02/21/2010 15:31:39	18:06:28	02/22/2010 10:47:21	02/22/2010 10:48:09
		02/22/2010 09:38:07		02/22/2010 10:48:09	02/22/2010 10:49:13
14	220165165	02/21/2010 15:31:39	18:24:40	02/22/2010 10:49:13	02/22/2010 10:49:52
		02/22/2010 09:56:19		02/22/2010 10:49:52	02/22/2010 10:50:56
15	220165166	02/21/2010 15:31:39	18:05:04	02/22/2010 10:50:56	02/22/2010 10:51:36
		02/22/2010 09:36:42		02/22/2010 10:51:36	02/22/2010 10:52:40
16	220165167	02/21/2010 15:31:39	18:09:36	02/22/2010 10:52:40	02/22/2010 10:53:23
		02/22/2010 09:41:15		02/22/2010 10:53:23	02/22/2010 10:54:27
17	220165168	02/21/2010 15:31:39	18:03:38	02/22/2010 10:54:27	02/22/2010 10:55:08
		02/22/2010 09:35:17		02/22/2010 10:55:08	02/22/2010 10:56:12
18	220165169	02/21/2010 15:31:39	18:05:03	02/22/2010 10:56:12	02/22/2010 10:56:54
		02/22/2010 09:36:42		02/22/2010 10:56:54	02/22/2010 10:57:58
19	220165170	02/21/2010 15:31:39	18:17:50	02/22/2010 10:57:58	02/22/2010 10:58:40
		02/22/2010 09:49:29		02/22/2010 10:58:40	02/22/2010 10:59:43
20	220165171	02/21/2010 15:31:39	18:48:50	02/22/2010 10:59:43	02/22/2010 11:00:30
		02/22/2010 10:20:29		02/22/2010 11:00:30	02/22/2010 11:01:33



Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition

TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0

April 10, 2010

Duration of Stream Execution (continued):

Throughput Stream	Seed	Query Start	Duration	RF1 Start	RF2 Start
		Query End		RF1 End	RF2 End
21	220165172	02/21/2010 15:31:39	18:24:08	02/22/2010 11:01:33	02/22/2010 11:02:23
		02/22/2010 09:55:48		02/22/2010 11:02:23	02/22/2010 11:03:26
22	220165173	02/21/2010 15:31:40	18:26:26	02/22/2010 11:03:26	02/22/2010 11:04:11
		02/22/2010 09:58:05		02/22/2010 11:04:11	02/22/2010 11:05:14
23	220165174	02/21/2010 15:31:40	17:55:38	02/22/2010 11:05:14	02/22/2010 11:05:55
		02/22/2010 09:27:18		02/22/2010 11:05:55	02/22/2010 11:06:59
24	220165175	02/21/2010 15:31:40	18:18:59	02/22/2010 11:06:59	02/22/2010 11:07:41
		02/22/2010 09:50:39		02/22/2010 11:07:41	02/22/2010 11:08:45
25	220165176	02/21/2010 15:31:40	18:25:59	02/22/2010 11:08:45	02/22/2010 11:09:30
		02/22/2010 09:57:39		02/22/2010 11:09:30	02/22/2010 11:10:33
26	220165177	02/21/2010 15:31:40	17:52:48	02/22/2010 11:10:33	02/22/2010 11:11:24
		02/22/2010 09:24:27		02/22/2010 11:11:24	02/22/2010 11:12:28
27	220165178	02/21/2010 15:31:40	18:53:58	02/22/2010 11:12:28	02/22/2010 11:13:12
		02/22/2010 10:25:38		02/22/2010 11:13:12	02/22/2010 11:14:15
28	220165179	02/21/2010 15:31:40	18:46:02	02/22/2010 11:14:15	02/22/2010 11:14:58
		02/22/2010 10:17:42		02/22/2010 11:14:58	02/22/2010 11:16:02
29	220165180	02/21/2010 15:31:40	18:13:19	02/22/2010 11:16:02	02/22/2010 11:17:05
		02/22/2010 09:44:59		02/22/2010 11:17:05	02/22/2010 11:18:09
30	220165181	02/21/2010 15:31:40	18:25:39	02/22/2010 11:18:09	02/22/2010 11:19:29
		02/22/2010 09:57:19		02/22/2010 11:19:29	02/22/2010 11:20:33
31	220165182	02/21/2010 15:31:40	18:12:36	02/22/2010 11:20:34	02/22/2010 11:21:56
		02/22/2010 09:44:16		02/22/2010 11:21:56	02/22/2010 11:23:01
32	220165183	02/21/2010 15:31:40	18:51:13	02/22/2010 11:23:01	02/22/2010 11:24:19
		02/22/2010 10:22:54		02/22/2010 11:24:19	02/22/2010 11:25:24
33	220165184	02/21/2010 15:31:41	18:37:41	02/22/2010 11:25:25	02/22/2010 11:26:18
		02/22/2010 10:09:22		02/22/2010 11:26:18	02/22/2010 11:27:23
34	220165185	02/21/2010 15:31:41	18:19:52	02/22/2010 11:27:23	02/22/2010 11:28:08
		02/22/2010 09:51:33		02/22/2010 11:28:08	02/22/2010 11:29:13
35	220165186	02/21/2010 15:31:41	18:21:37	02/22/2010 11:29:13	02/22/2010 11:30:11
		02/22/2010 09:53:18		02/22/2010 11:30:11	02/22/2010 11:31:16
36	220165187	02/21/2010 15:31:41	18:10:53	02/22/2010 11:31:16	02/22/2010 11:32:02
		02/22/2010 09:42:34		02/22/2010 11:32:02	02/22/2010 11:33:07



Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition

TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0

April 10, 2010

Duration of Stream Execution (continued):

Throughput Stream	Seed	Query Start	Duration	RF1 Start	RF2 Start
		Query End		RF1 End	RF2 End
37	220165188	02/21/2010 15:31:41	18:53:28	02/22/2010 11:33:07	02/22/2010 11:33:47
		02/22/2010 10:25:09		02/22/2010 11:33:47	02/22/2010 11:34:53
38	220165189	02/21/2010 15:31:41	18:37:26	02/22/2010 11:34:53	02/22/2010 11:35:44
		02/22/2010 10:09:07		02/22/2010 11:35:44	02/22/2010 11:36:51
39	220165190	02/21/2010 15:31:41	18:51:25	02/22/2010 11:36:51	02/22/2010 11:38:14
		02/22/2010 10:23:07		02/22/2010 11:38:14	02/22/2010 11:39:21
40	220165191	02/21/2010 15:31:41	18:50:00	02/22/2010 11:39:21	02/22/2010 11:41:08
		02/22/2010 10:21:42		02/22/2010 11:41:08	02/22/2010 11:42:15
41	220165192	02/21/2010 15:31:41	18:49:34	02/22/2010 11:42:15	02/22/2010 11:43:44
		02/22/2010 10:21:16		02/22/2010 11:43:44	02/22/2010 11:44:53
42	220165193	02/21/2010 15:31:41	18:49:39	02/22/2010 11:44:53	02/22/2010 11:45:44
		02/22/2010 10:21:21		02/22/2010 11:45:44	02/22/2010 11:46:51
43	220165194	02/21/2010 15:31:41	18:24:10	02/22/2010 11:46:51	02/22/2010 11:47:35
		02/22/2010 09:55:51		02/22/2010 11:47:35	02/22/2010 11:48:42
44	220165195	02/21/2010 15:31:42	18:49:45	02/22/2010 11:48:42	02/22/2010 11:49:27
		02/22/2010 10:21:26		02/22/2010 11:49:27	02/22/2010 11:50:34
45	220165196	02/21/2010 15:31:42	18:45:17	02/22/2010 11:50:34	02/22/2010 11:51:12
		02/22/2010 10:16:58		02/22/2010 11:51:12	02/22/2010 11:52:19
46	220165197	02/21/2010 15:31:42	18:37:30	02/22/2010 11:52:19	02/22/2010 11:52:58
		02/22/2010 10:09:11		02/22/2010 11:52:58	02/22/2010 11:54:05
47	220165198	02/21/2010 15:31:42	18:22:49	02/22/2010 11:54:05	02/22/2010 11:54:42
		02/22/2010 09:54:31		02/22/2010 11:54:42	02/22/2010 11:55:50
48	220165199	02/21/2010 15:31:42	18:41:36	02/22/2010 11:55:50	02/22/2010 11:56:28
		02/22/2010 10:13:18		02/22/2010 11:56:28	02/22/2010 11:57:35
49	220165200	02/21/2010 15:31:42	18:43:27	02/22/2010 11:57:35	02/22/2010 11:58:21
		02/22/2010 10:15:09		02/22/2010 11:58:21	02/22/2010 11:59:29
50	220165201	02/21/2010 15:31:42	18:22:47	02/22/2010 11:59:29	02/22/2010 12:00:12
		02/22/2010 09:54:30		02/22/2010 12:00:12	02/22/2010 12:01:20
51	220165202	02/21/2010 15:31:42	18:51:51	02/22/2010 12:01:20	02/22/2010 12:01:58
		02/22/2010 10:23:33		02/22/2010 12:01:58	02/22/2010 12:03:05
52	220165203	02/21/2010 15:31:42	18:42:45	02/22/2010 12:03:05	02/22/2010 12:03:44
		02/22/2010 10:14:27		02/22/2010 12:03:43	02/22/2010 12:04:52



Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition

TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0

April 10, 2010

Duration of Stream Execution (continued):

Throughput Stream	Seed	Query Start	Duration	RF1 Start	RF2 Start
		Query End		RF1 End	RF2 End
53	220165204	02/21/2010 15:31:42	18:40:17	02/22/2010 12:04:52	02/22/2010 12:05:30
		02/22/2010 10:11:59		02/22/2010 12:05:30	02/22/2010 12:06:37
54	220165205	02/21/2010 15:31:43	18:42:28	02/22/2010 12:06:37	02/22/2010 12:07:18
		02/22/2010 10:14:11		02/22/2010 12:07:18	02/22/2010 12:08:26
55	220165206	02/21/2010 15:31:43	18:51:46	02/22/2010 12:08:26	02/22/2010 12:09:04
		02/22/2010 10:23:29		02/22/2010 12:09:04	02/22/2010 12:10:11
56	220165207	02/21/2010 15:31:43	18:49:34	02/22/2010 12:10:11	02/22/2010 12:10:50
		02/22/2010 10:21:17		02/22/2010 12:10:50	02/22/2010 12:11:59
57	220165208	02/21/2010 15:31:43	18:51:26	02/22/2010 12:11:59	02/22/2010 12:12:39
		02/22/2010 10:23:09		02/22/2010 12:12:39	02/22/2010 12:13:46
58	220165209	02/21/2010 15:31:43	18:44:53	02/22/2010 12:13:46	02/22/2010 12:14:27
		02/22/2010 10:16:36		02/22/2010 12:14:27	02/22/2010 12:15:34
59	220165210	02/21/2010 15:31:43	18:41:57	02/22/2010 12:15:35	02/22/2010 12:16:28
		02/22/2010 10:13:40		02/22/2010 12:16:28	02/22/2010 12:17:36
60	220165211	02/21/2010 15:31:43	18:24:08	02/22/2010 12:17:36	02/22/2010 12:18:42
		02/22/2010 09:55:51		02/22/2010 12:18:42	02/22/2010 12:19:50
61	220165212	02/21/2010 15:31:43	18:49:34	02/22/2010 12:19:50	02/22/2010 12:21:15
		02/22/2010 10:21:17		02/22/2010 12:21:15	02/22/2010 12:22:23
62	220165213	02/21/2010 15:31:43	18:50:53	02/22/2010 12:22:23	02/22/2010 12:23:58
		02/22/2010 10:22:36		02/22/2010 12:23:58	02/22/2010 12:25:06
63	220165214	02/21/2010 15:31:43	18:46:45	02/22/2010 12:25:06	02/22/2010 12:26:21
		02/22/2010 10:18:28		02/22/2010 12:26:21	02/22/2010 12:27:28
64	220165215	02/21/2010 15:31:43	18:54:33	02/22/2010 12:27:28	02/22/2010 12:28:20
		02/22/2010 10:26:16		02/22/2010 12:28:20	02/22/2010 12:29:30



**Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition**

**TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0**

April 10, 2010

TPC-H Timing Intervals (in seconds):

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 0	274.3	27.4	20.8	17.7	88.2	12.6	101.6	60.5	293.7	39.7	48.9	96.3
Stream 1	1,775.0	2,958.1	5,123.2	1,906.0	4,578.2	4,041.5	3,312.8	1,563.9	1,881.6	2,838.5	3,448.7	3,032.1
Stream 2	1,737.7	4,073.7	1,916.9	1,862.3	3,088.0	19.1	2,647.3	3,069.0	4,891.2	3,411.7	1,926.1	3,743.3
Stream 3	4,500.5	1,404.1	2,086.4	4,378.6	5,854.0	4,322.9	3,266.4	187.3	2,854.5	3,130.8	2,862.5	1,981.4
Stream 4	2,514.8	2,590.6	1,772.6	2,016.1	286.8	4,262.1	1,613.8	3,116.9	3,823.0	2,622.1	3,886.2	4,302.6
Stream 5	3,514.2	2,562.7	3,582.8	4,016.7	2,106.0	4,362.5	3,722.7	1,782.6	2,098.2	1,971.3	2,785.7	1,891.3
Stream 6	2,700.8	1,905.6	5,675.0	2,008.8	2,830.2	3,271.4	4,565.7	3,260.6	4,624.9	422.3	3,112.8	3,636.1
Stream 7	2,779.7	3,435.2	3,749.5	2,985.5	2,820.8	1,617.1	1,950.4	5,324.1	2,929.1	1,842.7	2,629.5	2,008.0
Stream 8	6,118.3	1,934.1	3,347.1	2,896.4	3,424.8	2,661.3	2,874.4	3,384.7	5,068.6	2,050.8	2,227.4	4,368.1
Stream 9	1,898.2	4,013.8	3,238.8	2,189.9	1,870.2	4,215.3	2,207.2	1,246.7	1,728.2	3,679.2	2,621.4	1,962.6
Stream 10	3,965.1	4,070.4	2,837.7	1,987.9	1,655.1	1,114.3	4,293.3	1,981.2	2,646.7	2,652.8	1,829.9	3,602.2
Stream 11	2,013.8	1,837.8	2,841.6	2,897.9	3,826.9	1,950.1	2,381.8	3,367.4	1,889.1	3,209.8	4,175.5	2,968.5
Stream 12	1,967.6	3,558.7	2,049.0	3,009.5	2,818.3	4,227.6	5,370.3	2,114.8	2,966.2	1,857.8	2,843.6	4,353.5
Stream 13	3,820.0	3,474.9	4,059.6	1,978.4	2,565.4	2,929.7	4,327.8	1,894.8	3,009.5	3,027.0	3,483.3	4,506.7
Stream 14	4,104.6	1,574.8	1,890.2	4,513.2	3,821.1	2,203.7	3,215.0	1,913.1	6,000.1	1,686.9	1,950.6	2,328.2
Stream 15	1,703.1	1,643.3	2,510.7	1,834.5	2,850.6	1,881.4	3,072.8	4,616.7	5,960.8	4,143.7	3,354.1	4,436.3
Stream 16	2,388.4	3,599.4	5,302.4	3,034.8	4,736.2	3,940.3	2,106.4	2,009.4	3,521.7	3,497.7	2,097.0	2,136.6
Stream 17	1,893.8	4,197.0	2,028.0	1,841.8	3,682.6	1,819.4	3,309.3	3,673.1	3,615.1	2,546.5	4,558.5	2,197.2
Stream 18	4,068.7	3,035.6	2,065.0	5,370.4	4,634.8	4,230.4	1,790.0	4,187.4	1,837.8	2,554.9	2,939.3	2,004.3
Stream 19	2,755.9	4,351.2	2,620.0	2,070.7	3,280.9	1,916.0	1,943.3	2,160.6	3,557.1	2,976.4	1,939.9	5,504.2
Stream 20	3,842.0	1,918.3	1,957.7	3,353.0	2,944.5	2,010.4	2,188.6	3,475.4	2,825.4	2,052.0	1,917.9	3,078.9
Stream 21	3,327.0	2,486.9	2,014.3	4,087.1	1,909.5	1,775.9	1,917.8	1,863.0	2,769.4	3,382.7	3,077.2	4,638.1
Stream 22	2,659.8	4,361.1	2,004.1	4,297.0	1,777.9	1,726.7	2,794.3	1,984.9	2,870.0	3,354.4	4,248.1	3,111.5
Stream 23	2,786.3	2,986.2	1,823.8	1,918.8	2,791.7	3,362.6	1,824.5	4,305.6	4,705.7	1,839.6	4,279.3	3,630.1
Stream 24	1,837.8	2,782.2	5,164.8	3,023.3	1,605.6	4,071.1	2,511.1	3,310.5	3,933.2	3,931.9	2,126.5	2,230.9
Stream 25	5,670.9	3,379.4	1,670.6	2,012.7	2,355.6	1,870.3	3,511.3	2,618.4	3,038.4	3,809.6	3,728.8	1,823.4
Stream 26	1,630.1	5,077.2	1,957.4	3,074.6	4,263.5	2,622.1	2,356.9	2,016.0	3,161.1	3,177.3	3,211.1	2,276.7
Stream 27	2,458.6	3,632.0	2,742.1	2,370.5	3,250.2	5,078.2	3,474.0	3,455.4	4,225.3	1,840.3	2,043.7	2,042.1
Stream 28	4,426.2	2,871.7	2,094.5	2,469.3	1,917.7	1,883.9	4,061.2	1,905.2	2,718.4	2,610.1	3,310.1	4,231.2
Stream 29	4,872.2	1,797.8	2,668.5	2,278.8	2,965.4	3,707.3	1,872.0	5,212.1	5,071.7	2,709.1	2,451.5	3,900.8
Stream 30	2,985.6	2,261.6	3,422.0	2,175.8	4,094.8	1,895.1	2,907.7	1,948.1	3,297.6	3,018.2	1,870.8	2,022.3
Stream 31	5,068.4	2,888.4	3,524.5	2,940.3	2,518.1	1,657.9	3,822.9	2,658.2	5,906.3	1,881.7	2,556.6	1,905.7
Stream 32	3,469.5	3,343.3	2,588.3	3,809.1	3,868.7	2,972.6	3,390.5	4,544.5	2,210.6	1,881.9	1,738.3	5,362.8



**Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
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**TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0**

April 10, 2010

TPC-H Timing Intervals (in seconds):

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 33	2,951.0	4,429.8	3,410.8	2,522.1	4,147.9	1,813.9	3,731.7	2,012.4	2,786.0	3,657.9	3,983.3	2,165.1
Stream 34	3,651.8	2,437.3	3,734.5	3,455.9	1,985.8	3,566.6	3,253.5	1,842.4	3,952.3	2,554.0	4,643.0	2,101.4
Stream 35	2,653.9	3,038.6	2,057.9	2,283.2	4,311.2	1,864.4	1,967.7	3,491.7	2,701.4	4,179.4	2,473.1	4,010.7
Stream 36	4,313.5	1,603.2	2,615.0	3,137.6	3,489.1	2,934.5	4,781.8	2,209.1	3,797.2	1,557.6	2,836.9	2,109.1
Stream 37	2,667.3	1,813.0	1,793.4	2,615.5	4,659.6	2,132.2	3,229.1	3,657.2	5,593.5	3,356.7	3,844.8	2,297.7
Stream 38	3,964.3	3,405.5	3,487.1	4,430.8	4,821.3	3,530.4	3,044.4	2,805.9	3,422.5	1,742.0	3,613.3	2,268.0
Stream 39	2,792.9	3,351.8	3,776.2	2,960.2	3,513.0	3,485.9	5,046.1	1,909.4	2,614.5	2,518.3	2,089.3	1,846.7
Stream 40	3,978.6	1,812.5	4,933.6	2,504.8	1,977.8	1,841.7	2,996.3	3,061.9	3,604.7	1,908.4	3,801.2	1,960.4
Stream 41	1,785.7	5,066.6	2,564.3	2,879.1	1,733.8	3,123.0	1,906.0	2,427.6	5,175.8	1,909.9	1,878.9	3,522.1
Stream 42	1,738.5	1,773.5	4,657.5	3,507.2	3,249.9	5,005.4	3,968.8	1,931.9	2,587.3	2,794.5	3,104.5	2,371.5
Stream 43	1,821.7	2,171.3	1,769.6	2,010.4	3,568.8	3,825.3	3,120.6	2,542.9	5,368.6	3,956.1	2,129.3	3,232.9
Stream 44	4,554.7	1,902.9	3,520.4	4,594.3	4,879.2	3,246.5	3,463.3	3,983.8	3,999.2	3,380.4	2,874.3	2,337.5
Stream 45	1,833.8	2,780.4	2,061.6	3,154.5	4,233.2	2,194.7	1,874.1	3,034.4	3,334.7	1,793.7	2,884.0	5,164.7
Stream 46	2,670.1	1,761.7	3,066.5	4,311.0	1,881.9	3,475.4	3,270.7	2,124.9	2,974.2	2,168.8	3,642.1	1,836.8
Stream 47	2,880.1	1,885.5	4,753.3	2,844.2	1,810.1	3,166.5	2,921.4	3,838.1	4,788.1	4,339.9	2,442.4	3,152.3
Stream 48	2,872.0	3,247.6	2,760.5	3,883.1	1,429.6	1,834.9	2,189.1	4,879.3	3,131.6	1,858.7	2,853.8	3,184.9
Stream 49	5,353.4	1,874.1	3,506.3	2,995.0	3,259.6	1,797.6	2,897.8	4,053.4	5,613.7	1,739.1	3,187.5	2,089.6
Stream 50	1,747.2	4,535.1	3,806.4	2,638.0	1,952.4	5,150.4	1,929.7	4,567.6	1,743.5	3,599.9	2,469.5	2,068.6
Stream 51	3,711.3	2,241.4	1,759.5	1,863.3	1,828.1	4,601.4	5,196.8	2,602.6	3,899.9	3,618.6	1,987.7	3,583.1
Stream 52	3,098.7	1,950.0	1,719.4	3,517.8	2,996.3	1,939.6	3,243.9	2,498.0	1,969.3	3,089.5	2,238.3	2,945.2
Stream 53	5,354.2	2,703.8	1,849.3	3,600.4	3,002.3	2,123.6	4,483.1	3,072.4	3,219.7	1,950.0	3,156.1	5,138.8
Stream 54	3,339.8	2,821.3	3,503.8	2,902.2	1,457.6	3,046.6	4,446.4	1,993.4	2,816.5	4,231.2	3,731.8	4,440.9
Stream 55	4,615.7	5,401.8	1,790.0	3,649.8	4,098.1	3,237.0	3,517.5	1,851.1	5,258.7	2,108.3	1,754.2	1,992.3
Stream 56	1,759.4	1,757.5	3,613.5	1,770.1	2,622.1	2,888.8	2,623.9	3,394.6	5,333.8	4,381.8	4,320.3	2,192.2
Stream 57	6,139.9	3,086.8	4,359.8	3,164.4	3,531.4	4,238.3	1,999.4	1,795.3	4,257.4	2,569.9	2,797.0	2,051.8
Stream 58	1,821.7	4,640.7	5,490.7	2,014.0	4,479.3	2,209.3	3,398.5	3,004.0	4,578.2	3,106.9	3,272.3	3,274.9
Stream 59	2,894.3	3,337.0	3,000.3	4,585.0	3,219.7	2,057.8	2,227.3	4,508.3	1,901.8	1,426.5	4,126.6	1,861.7
Stream 60	2,331.9	2,322.2	1,904.8	5,531.2	2,974.7	1,832.0	2,673.0	2,982.5	3,322.0	2,434.5	1,991.2	4,735.1
Stream 61	3,485.8	1,861.6	1,800.9	3,385.9	2,678.4	1,924.7	3,113.6	3,523.6	1,804.6	2,778.2	1,988.2	2,491.1
Stream 62	3,975.2	3,501.5	1,735.0	4,817.2	2,778.0	1,730.2	1,957.1	1,982.7	2,123.1	2,466.1	3,599.6	3,428.5
Stream 63	2,819.3	3,266.9	1,973.1	1,953.9	2,911.1	1,836.4	1,822.6	1,718.2	2,045.9	4,325.1	4,416.5	3,666.9
Stream 64	4,426.1	4,166.4	1,882.6	1,617.1	1,788.0	2,058.7	3,477.7	4,370.8	5,433.9	1,785.7	2,231.8	3,462.4
Min	274.3	27.4	20.8	17.7	88.2	12.6	101.6	60.5	293.7	39.7	48.9	96.3
Avg	3,162.2	2,892.1	2,877.0	2,949.6	2,990.0	2,759.2	2,992.0	2,829.0	3,493.6	2,691.4	2,886.8	2,989.2
Max	6,139.9	5,401.8	5,675.0	5,531.2	5,854.0	5,150.4	5,370.3	5,324.1	6,000.1	4,381.8	4,643.0	5,504.2



**Sun SPARC Enterprise M9000
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**TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0**

April 10, 2010

TPC-H Timing Intervals (in seconds):

	Q13	Q14	Q15a	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 0	165.7	10.6	22.3	27.6	90.4	400.1	102.0	40.6	369.3	46.5	44.8	64.2
Stream 1	3,552.4	1,831.0	3,204.9	2,793.5	2,343.3	4,297.7	2,174.9	4,441.5	1,087.2	2,069.6	44.8	62.9
Stream 2	2,778.2	4,446.3	2,066.4	4,359.4	5,935.6	1,873.8	3,775.5	1,936.1	1,909.1	2,789.2	48.1	63.7
Stream 3	1,895.6	2,860.3	3,670.7	1,802.2	3,603.4	4,322.8	2,108.3	2,975.6	1,949.8	2,260.7	41.9	63.1
Stream 4	1,841.4	3,759.9	3,347.0	2,362.6	3,339.7	1,769.7	4,715.1	2,066.2	6,771.1	2,107.9	39.7	63.1
Stream 5	3,112.4	1,995.1	5,438.9	3,203.7	2,133.6	4,325.6	4,413.0	2,019.8	1,301.3	3,040.8	38.4	63.4
Stream 6	4,291.2	1,861.7	4,322.6	1,670.0	1,990.4	3,227.4	2,180.5	1,883.1	2,054.9	2,759.5	41.9	63.4
Stream 7	1,910.7	1,950.6	1,875.8	1,894.1	4,483.6	1,529.6	3,255.2	4,013.6	5,668.9	4,121.5	43.0	64.0
Stream 8	1,541.6	2,581.5	3,998.5	1,907.9	4,694.1	1,770.2	704.8	3,643.0	1,778.0	2,073.8	40.9	64.3
Stream 9	5,450.9	1,814.1	2,902.3	2,607.5	3,576.4	2,861.2	3,283.5	4,525.9	5,570.7	2,465.7	37.3	63.6
Stream 10	3,386.7	3,619.9	5,139.5	1,814.4	4,473.5	4,253.9	2,039.6	1,814.3	2,885.9	2,211.2	40.0	64.3
Stream 11	1,613.8	5,010.0	1,286.7	4,142.5	4,640.8	5,319.6	2,102.5	3,327.8	1,897.9	2,673.8	41.2	63.6
Stream 12	1,693.7	1,727.7	1,866.4	3,545.4	4,849.9	3,149.1	2,193.6	2,987.8	1,800.3	3,320.3	44.0	63.3
Stream 13	1,921.5	1,882.5	1,770.2	2,560.5	5,629.0	1,774.0	2,366.8	1,928.9	2,293.5	3,976.4	48.2	63.8
Stream 14	3,214.1	2,435.5	4,177.2	1,845.6	3,463.4	3,032.9	2,230.4	4,312.9	4,425.7	1,940.7	39.4	63.6
Stream 15	2,333.5	3,146.8	3,621.8	1,649.0	3,973.4	2,097.9	2,189.7	1,918.0	3,350.7	2,814.7	39.7	64.2
Stream 16	1,605.8	4,070.2	2,638.9	2,938.8	2,106.6	1,956.9	1,817.2	3,271.6	2,094.2	4,505.2	43.1	63.7
Stream 17	1,883.4	2,555.8	3,975.2	5,424.2	3,248.3	2,666.4	2,064.2	1,886.0	4,167.5	1,784.6	41.3	63.6
Stream 18	3,929.7	2,008.4	1,842.0	2,150.7	3,475.3	1,843.5	2,183.1	2,946.9	4,019.2	1,985.7	42.2	63.5
Stream 19	1,857.7	4,490.8	3,255.5	4,125.9	3,023.3	1,841.8	1,944.9	1,899.0	4,523.2	3,831.8	41.9	63.6
Stream 20	4,501.9	3,827.8	5,485.2	2,132.1	3,907.9	4,294.8	4,347.4	2,574.7	1,844.6	3,249.2	47.1	63.1
Stream 21	1,983.9	5,401.4	3,313.8	3,736.5	3,493.6	2,570.1	4,457.9	2,208.2	3,797.6	2,036.7	49.8	62.7
Stream 22	4,281.0	5,341.0	1,619.6	2,267.7	2,625.9	2,939.7	3,793.7	2,178.1	3,110.9	3,038.3	44.9	63.2
Stream 23	1,986.7	3,962.5	5,408.1	2,994.7	2,857.9	2,268.1	1,886.1	1,617.2	3,246.9	2,055.9	40.9	63.6
Stream 24	3,308.6	4,385.1	1,839.0	2,526.4	2,076.0	4,291.3	1,891.2	2,162.6	3,246.8	3,683.1	42.1	63.8
Stream 25	4,428.6	4,119.9	2,061.6	3,531.0	2,020.1	3,360.8	3,057.4	1,926.5	2,994.6	3,369.1	44.8	63.6
Stream 26	2,841.3	4,044.6	1,707.7	1,724.4	1,855.4	2,294.8	3,535.5	4,232.8	3,238.4	4,068.6	50.8	63.6
Stream 27	2,346.4	2,420.2	2,861.8	1,737.9	5,502.1	1,733.5	3,682.6	1,996.3	5,488.5	3,656.4	44.1	63.2
Stream 28	3,436.9	2,557.8	2,872.0	2,963.4	2,226.3	2,982.7	1,884.1	3,676.4	5,193.7	5,269.2	42.7	63.9
Stream 29	1,755.1	2,086.6	1,937.1	3,115.1	3,410.4	3,665.8	1,868.0	2,959.3	1,634.3	3,660.3	63.3	64.0
Stream 30	4,697.9	3,538.4	3,177.7	1,718.0	5,265.7	3,899.3	2,890.2	1,795.9	3,114.5	4,341.4	79.7	64.6
Stream 31	1,796.2	2,030.6	1,922.4	2,688.1	2,027.4	2,944.7	4,183.6	3,084.1	5,310.6	2,239.3	82.6	65.0
Stream 32	3,398.8	2,019.4	2,940.1	4,154.3	4,233.7	2,792.2	2,112.7	1,891.6	1,684.7	3,466.1	78.1	65.0



**Sun SPARC Enterprise M9000
with Oracle Database 11g Release 2
Enterprise Edition**

**TPC-H Rev. 2.9.0
TPC-Pricing Rev. 1.5.0**

April 10, 2010

TPC-H Timing Intervals (in seconds):

	Q13	Q14	Q15a	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 33	1,805.4	3,415.8	3,039.4	5,214.5	3,845.8	1,866.1	2,205.6	2,885.4	2,898.5	2,272.9	53.3	65.2
Stream 34	4,651.9	3,920.8	2,649.7	1,645.6	2,144.6	2,847.6	2,234.5	1,938.7	4,066.8	2,713.3	44.5	65.8
Stream 35	2,667.1	2,974.0	2,001.8	2,926.6	5,199.6	1,897.9	1,994.5	3,993.8	2,946.6	4,462.2	57.7	65.1
Stream 36	3,738.9	1,827.7	1,882.5	2,635.9	5,299.6	3,611.1	2,175.1	1,991.1	3,907.2	3,000.0	45.9	65.1
Stream 37	3,788.0	4,806.4	2,450.2	1,838.0	1,994.0	2,926.2	3,791.2	2,124.6	3,105.9	3,523.6	39.2	66.0
Stream 38	1,865.5	3,677.9	1,914.2	3,923.4	2,044.6	1,950.2	2,392.1	3,732.9	2,343.9	2,666.2	51.7	66.8
Stream 39	1,957.1	4,201.5	3,690.5	3,449.4	2,095.0	2,799.8	3,708.7	3,220.6	4,967.3	1,891.2	82.6	67.4
Stream 40	4,236.3	3,274.5	4,795.3	1,862.0	4,629.9	1,737.7	3,548.1	2,456.1	3,740.0	3,138.6	106.8	67.0
Stream 41	3,003.7	3,796.7	1,707.6	2,650.3	4,015.8	5,169.0	2,134.8	3,433.1	4,133.5	3,757.0	89.2	68.8
Stream 42	3,069.9	1,792.2	3,371.0	3,497.0	3,178.5	5,108.9	2,049.0	2,182.5	4,938.3	1,901.6	50.2	67.4
Stream 43	1,457.9	4,459.9	2,956.5	3,343.9	5,227.3	1,945.8	3,753.8	1,746.0	2,375.4	3,465.8	44.3	66.8
Stream 44	1,784.6	2,392.5	3,117.0	1,819.7	3,788.9	3,303.1	2,179.7	1,740.6	1,865.7	3,056.6	45.0	66.9
Stream 45	1,901.9	4,198.3	2,974.2	3,587.8	4,030.2	1,717.7	3,760.3	3,296.9	5,754.6	1,950.9	37.7	67.1
Stream 46	3,362.5	2,925.3	4,523.5	3,786.5	2,054.8	2,137.5	5,312.4	1,873.4	5,356.9	2,532.8	38.9	66.9
Stream 47	3,741.2	1,685.9	4,551.8	1,794.0	2,104.3	3,780.8	2,258.9	1,907.1	2,410.8	3,112.7	37.1	67.5
Stream 48	3,000.9	1,790.6	2,161.0	1,894.1	2,465.3	4,343.1	3,653.9	4,739.5	4,399.9	4,723.3	38.1	67.0
Stream 49	1,901.9	2,904.1	4,191.4	2,880.5	3,786.6	2,230.4	4,649.9	2,900.3	1,782.1	1,812.4	45.6	67.8
Stream 50	4,975.4	1,911.9	2,967.3	2,544.8	3,273.1	2,842.6	3,514.8	3,471.1	2,322.4	2,135.7	43.2	67.7
Stream 51	2,411.9	2,766.9	4,667.4	1,948.2	3,322.4	4,693.5	2,190.6	1,644.2	4,410.8	2,961.0	38.7	66.7
Stream 52	1,685.9	4,657.2	4,653.7	4,697.5	3,562.4	5,393.3	2,327.3	4,029.8	1,825.7	3,326.1	38.4	68.2
Stream 53	1,825.7	2,171.2	3,076.0	4,309.3	3,757.5	2,964.2	1,952.2	1,492.4	1,943.0	4,071.8	38.5	67.0
Stream 54	1,873.6	1,985.1	2,150.4	2,938.7	4,676.0	1,770.1	3,225.6	1,899.7	6,027.0	2,070.8	40.8	67.9
Stream 55	3,315.5	2,620.9	1,977.9	2,999.0	2,657.9	3,204.3	2,039.6	4,331.3	3,544.4	1,941.1	38.1	66.7
Stream 56	1,881.9	3,231.7	2,590.1	5,430.3	4,687.1	3,507.2	2,235.0	1,667.0	3,887.1	1,998.8	39.1	68.7
Stream 57	1,790.2	4,695.3	1,830.4	4,031.2	3,208.5	1,978.2	1,859.2	2,904.9	3,209.6	2,387.1	39.8	67.3
Stream 58	1,945.8	1,423.5	2,218.6	4,649.7	3,757.2	2,353.7	3,101.3	1,808.6	2,975.8	1,968.9	40.7	67.7
Stream 59	4,394.5	5,469.5	1,742.0	3,102.6	2,661.3	1,873.9	3,077.5	3,446.6	4,173.3	2,229.9	53.3	67.9
Stream 60	1,837.7	3,214.6	3,810.8	5,100.0	3,707.8	1,817.9	2,173.0	1,989.1	3,150.5	4,411.9	66.1	68.4
Stream 61	3,894.6	4,360.6	4,749.1	5,598.1	3,798.7	4,209.5	2,311.9	1,871.8	1,909.9	4,232.8	84.8	68.1
Stream 62	2,999.3	4,641.3	3,133.5	2,801.9	4,017.7	1,797.7	2,385.6	5,674.8	4,365.7	1,941.4	94.4	68.0
Stream 63	4,335.6	4,601.4	1,802.9	5,744.7	3,386.9	3,048.6	2,937.5	1,966.6	4,088.2	2,936.7	74.7	67.7
Stream 64	1,817.0	3,073.2	4,669.1	2,510.5	2,932.1	5,746.6	2,006.6	2,187.7	3,004.0	3,424.7	51.2	70.4
Min	165.7	10.6	22.3	27.6	90.4	400.1	102.0	40.6	369.3	46.5	37.1	62.7
Avg	2,764.0	3,148.7	3,009.0	3,004.2	3,444.4	2,937.3	2,716.5	2,656.8	3,317.8	2,906.7	49.9	65.5
Max	5,450.9	5,469.5	5,485.2	5,744.7	5,935.6	5,746.6	5,312.4	5,674.8	6,771.1	5,269.2	106.8	70.4