



**Sun Fire™ X4275
with Sybase IQ 15 Single
Application Server**

TPC-H Rev. 2.8

Report Date: April 14, 2009

Total System Cost

Composite Query per Hour Metric

Price/Performance

\$56,263.91

23,365.3
QphH@1000GB

\$2.41
per QphH@1000GB

Database Size

Database Manager

Operating System

Other Software

Availability Date

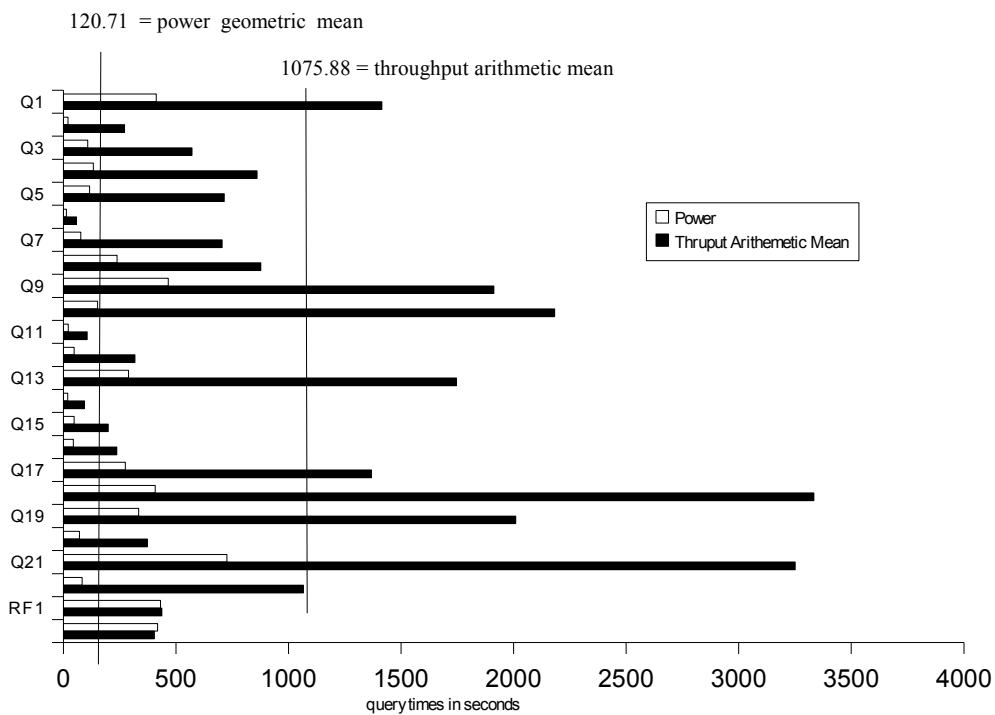
1000GB

**Sybase IQ 15 Single
Application Server**

Solaris 10

**Solaris Volume
Manager**

April 14, 2009



Database Load Time = 5 Hrs 39 mins

Load Includes Backup: N

Total Storage/Database Size= 3.35

RAID (Base tables): RAID 1

RAID (Base tables and auxiliary data structures): RAID 1

RAID (All): N

System Configuration:

SunFire X4275 each with
2 Intel Nehalem 2.93 GHz Quad Core processors
72 GB memory
12x 300GB SAS internal disks (15K RPM)

Total Storage: 3363 GB

1 GB = 1024*1024*1024 bytes



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3 Year Gold Warranty Upgrade – X4540Server	IWU-X4275-3G	1	2157.11	1	2,157.11
Sun Server Discount					2,374.00
Server Hardware Subtotal				21,366.00	2,157.11

External Storage
None

Server Software

Sybase IQ Single App Svr – per cpu core	12193	2	2,595.00	8	20,760.00
Sybase IQ 3 Years Extended Support 24 x 7	98477	2	1,713	8	13,704.00
Sybase discount					1,038.00 685.00
Server Software Subtotal				19,722.00	13,018.80

Total	41,088.00	15,175.91
3 Yr. Cost	56,263.91	
QphH@ 1000GB	23,365.3	
\$/QphH@ 1000GB	2.41	

Service for Sun products is from Sun Microsystems, Inc.
Service for Sybase products is from Sybase Inc.

Notes (Source):

1. Sun Microsystems Inc.
2. Sybase Inc.

PriceQuotes provided in Appendix G

Audited by: Brad Askins, 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.



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Numerical Quantities

Measurement Results:

Database Scale Factor	= 1000GB
Total Data Storage / Database Size	= 3.35
Start of database load time	= 03-18-2009 8:23:45
End of database load time	= 03-18-2009 14:02:40
Database Load Time	= 5 Hrs 39 Mins
Query Streams for Throughput Test	= 7
TPC-H Power	= 29,824.6
TPC-H Throughput	= 18,304.9
TPC-H Composite Query-per-Hour Rating (QphH@1000GB)	= 23365.3
Total System Price Over 3 Years (\$US)	= 56,263.91
TPC-H Price/Performance Metric (\$/QphH@1000GB)	= 2.41

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 30,287 seconds
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Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time	Duration
Stream 00	318140240	18-Mar-09	23:48:03	19-Mar-09	1:10:40	1:22:37
Stream 01	318140241	19-Mar-09	1:10:40	19-Mar-09	7:50:59	6:40:19
Stream 02	318140242	19-Mar-09	1:10:40	19-Mar-09	7:53:25	6:42:45
Stream 03	318140243	19-Mar-09	1:10:40	19-Mar-09	7:52:55	6:42:15
Stream 04	318140244	19-Mar-09	1:10:40	19-Mar-09	7:32:52	6:22:12
Stream 05	318140245	19-Mar-09	1:10:40	19-Mar-09	7:55:56	6:45:16
Stream 06	318140246	19-Mar-09	1:10:40	19-Mar-09	7:19:36	6:08:56
Stream 07	318140247	19-Mar-09	1:10:40	19-Mar-09	7:57:07	6:46:27



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TPC-H Timing Intervals (in seconds)

	q1	q2	q3	q4	q5	q6	q7	q8	q9	q10	q11	q12
Stream0	412.5	20.5	107.6	132.7	116.2	13.9	77.2	238.2	465.6	152.4	22	48
Stream1	1147.1	136.9	506.9	520.1	534	52.2	596	1065.3	2389.5	2059.4	217	432.1
Stream2	1169.6	212.7	711.1	1558.6	595.7	117.7	713.2	491.1	2343.9	2180.7	75.9	350.3
Stream3	1583.1	138.7	535.7	853.7	944.8	94.3	407.3	1263.2	2466	2425.5	98.9	185.6
Stream4	1199.4	495.4	584.5	1001.2	1265.7	49.9	786.2	797.8	1320.2	1761.8	137.6	196.5
Stream5	1490.2	201.9	549.1	869.9	416.5	43.9	984.1	738	803	2089.1	72	782.1
Stream6	1741.2	390.7	465.8	726.2	550.7	33.9	842.7	1071.4	2002.8	3102	47	221.5
Stream7	1571.5	320.5	647.1	493.7	694.6	17.5	601.8	717	2060.1	1655.4	94.6	53.1
min	1147.10	136.90	465.80	520.10	416.50	33.90	407.30	491.10	803.00	1761.80	47.00	185.60
avg	1388.43	262.72	558.85	921.62	717.90	65.32	721.58	904.47	1887.57	2269.75	108.07	361.35
max	1741.20	495.40	711.10	1558.60	1265.70	117.70	984.10	1263.20	2466.00	3102.00	217.00	782.10



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	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 00	289.9	19	48	44.5	274.7	408	334.8	71.2	726.3	82.6	431.8	418.2
Stream 01	2217.8	128.3	320	190.6	901	3180.6	1403.3	419.1	4368	1098.1	458.4	406.3
Stream 02	1519.5	100.1	124.1	320.5	2044.5	3259	2678.2	272.9	2001.9	1236.8	430	399.4
Stream 03	1808.4	50.4	265.1	177.9	836.4	3410.6	2817.2	243.9	2580.1	945.6	429.1	402.9
Stream 04	1514.8	59.8	199.8	181.2	2256.5	3403.4	835.8	540.6	3233.9	1108.9	435.2	401.9
Stream 05	1642.5	149.6	252.5	353	866.7	2825.6	3420.6	673.6	4366.4	712.5	435.8	409.4
Stream 06	1541.5	130.3	164.1	365.5	1151.5	2663.3	969	166.5	2399.6	1224.3	437.9	407.4
Stream 07	1978.6	37.1	74.3	74.8	1521.5	4591.6	1943.3	297.7	3805.3	1135.7	438.6	406
min	1514.8	37.1	74.3	74.8	836.4	2663.3	835.8	166.5	2001.9	712.5	429.1	399.4
avg	1746.16	93.66	199.99	237.64	1368.3	3333.44	2009.63	373.47	3250.74	1065.99	437.86	404.76
max	2217.8	149.6	320	365.5	2256.5	4591.6	3420.6	673.6	4368	1236.8	458.4	409.4