

Sun Fire™ X4240 Server with Sybase IQ 12.6 Single Application Server

TPC-H Rev. 2.6.2

Report Date: May 15, 2008

Total System Cost

Composite Query per Hour Metric

Price/Performance

\$28132.60

8,294.1
QphH@300GB

\$ 3.39
per QphH@300GB

Database Size

Database Manager

Operating System

Other Software

Availability Date

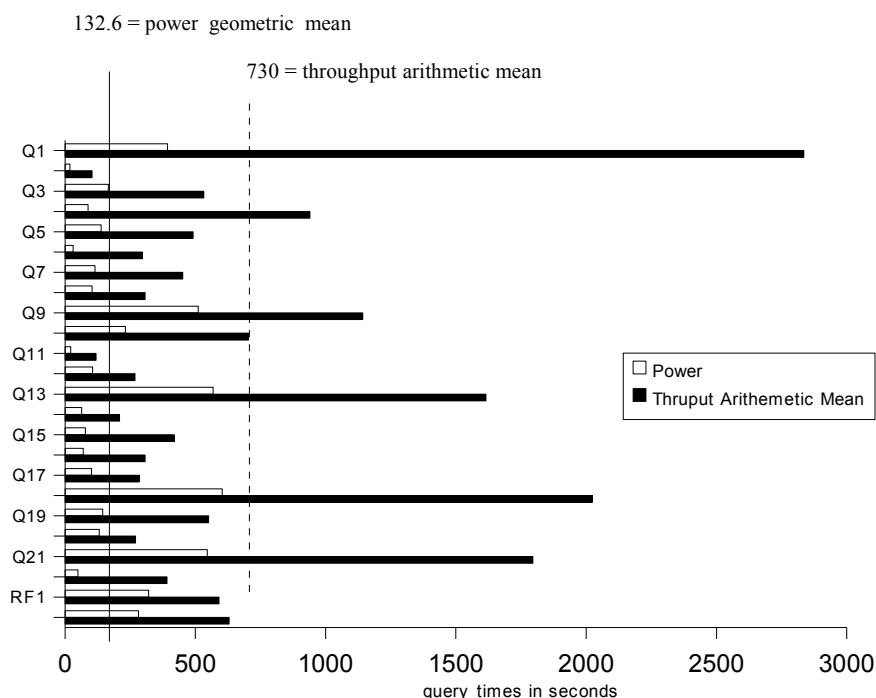
300GB

**Sybase IQ 12.6
Single Application
Server**

Solaris 10

**Solaris Volume
Manager**

May 15, 2008



Database Load Time = 5 Hrs 5 min

Load Includes Backup: N

Total Storage/Database Size= 3.6

RAID (Base tables): RAID 1

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

RAID (All): N

System Configuration:

SunFire X4240 Server each with
2 Opteron 3.2 GHz Dual Core processors
16 GB memory
16 X 73GB internal disks (10K RPM)

Total Storage: 1087.8 GB

(in this calculation 1 GB is defined as 1024 * 1024 * 1024)



Sun Fire™ X4240 Server with Sybase IQ 12.6 Single Application Server

TPC-H Rev. 2.6.2

Report Date: May 15, 2008

Description	Part Number	Source	Unit Price	Qty	Ext. Price	3 Yr. maint.
Server Hardware						
SunFire X4240, 2x3.2 GHz CPUs, 16GB memory, 16 x 73GB disks		1	10,648.00	1	10,648.00	
3 Year Gold Warranty Upgrade – X4140 Server		1		1		2,157.11
Sun Server Discount					1,064.80	215.71
Server Hardware Subtotal					9,583.20	1,941.40
External Storage						
None						
Server Software						
Sybase IQ Single App Svr – per cpu core	11467	2	2,595.00	4	10,380.00	
Sybase IQ 3 Years Extended Support 24 x 7	98477	2	1,557	4		6,228.00
Sybase discount					0.00	
Server Software Subtotal					10,380.00	6,228.00
Total					19,963.20	8,169.40
3 Yr. Cost					28,132.60	
QphH@ 100GB					8,294.1	
\$/QphH@ 100GB					3.39	

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.



**Sun Fire™ X4240 Server
with Sybase IQ 12.6 Single
Application Server**

TPC-H Rev. 2.6.2

Report Date: May 15, 2008

Numerical Quantities

Measurement Results:

Database Scale Factor	= 300GB
Total Data Storage / Database Size	= 3.6
Start of database load time	= 01-15-2008 14:18:32
End of database load time	= 01-15-2008 19:24:26
Database Load Time	= 5 Hrs 5 min
Query Streams for Throughput Test	= 6
TPC-H Power	= 8,144.9
TPC-H Throughput	= 8,446.0
TPC-H Composite Query-per-Hour Rating (QphH@300GB)	= 8,294.1
Total System Price Over 3 Years (\$US)	= 28132.60
TPC-H Price/Performance Metric (\$/QphH@300GB)	= 3.39

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 16,879 seconds
--	------------------

Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time	Duration
Stream 00	115192426	16-Jan-08	1:24:52	16-Jan-08	2:41:40	1:16:48
Stream 01	115192427	16-Jan-08	2:46:24	16-Jan-08	7:16:14	4:29:50
Stream 02	115192428	16-Jan-08	2:46:24	16-Jan-08	7:27:43	4:41:19
Stream 03	115192429	16-Jan-08	2:46:24	16-Jan-08	7:17:53	4:31:29
Stream 04	115192430	16-Jan-08	2:46:24	16-Jan-08	6:58:11	4:11:47
Stream 05	115192431	16-Jan-08	2:46:24	16-Jan-08	7:13:07	4:26:43
Stream 06	115192432	16-Jan-08	2:46:24	16-Jan-08	7:11:41	4:25:17
Refresh		16-Jan-08	2:46:24	16-Jan-08	5:18:38	2:32:14



**Sun Fire™ X4240 Server
with Sybase IQ 12.6 Single
Application Server**

TPC-H Rev. 2.6.2

Report Date: May 15, 2008

TPC-H Timing Intervals (in seconds)

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
Stream 00	393.6	18.6	166.1	88.2	139.2	31	115	104.2	511.3	232.2	21.8	105.6
Stream 01	2606.6	276.7	937.9	161.7	414	258.4	347.7	140	1153.4	472.9	120.9	169.3
Stream 02	3406.9	115	290.5	729.4	582.1	158	531	453.8	1719.8	756	21.9	403.1
Stream 03	3375	96.3	272.3	1207.6	640.4	323.8	535.1	507	1176.6	576.5	54.5	173.9
Stream 04	2230.7	71.2	464.9	972.2	691.5	90.1	487.4	311.4	1245.3	659.6	222.5	470.7
Stream 05	2498.4	26.5	621.8	1349	372.3	85	341.3	191	683.6	586.1	197.8	212.9
Stream 06	2888.8	34.9	606.4	1219.5	246.8	862	467	240.5	876.2	1176.5	96	180
Minimum	2230.70	26.50	272.30	161.70	246.80	85.00	341.30	140.00	683.60	472.90	21.90	169.30
Average	2834.40	103.43	532.30	939.90	491.18	296.22	451.58	307.28	1142.48	704.60	118.93	268.32
Maximum	3406.90	276.70	937.90	1349.00	691.50	862.00	535.10	507.00	1719.80	1176.50	222.50	470.70



**Sun Fire™ X4240 Server
with Sybase IQ 12.6 Single
Application Server**

TPC-H Rev. 2.6.2

Report Date: May 15, 2008

	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 00	568.7	63.8	78.2	70	101.6	603.4	145.2	131.8	546	50	321.2	281.8
Stream 01	1529	168.6	472.1	181.2	510.5	2207.1	535.8	451.1	2609.1	464.7	601.8	561.3
Stream 02	1891.8	530.1	407.3	462.7	422.8	2099.3	586.8	235.5	544.1	529.1	620.1	517.8
Stream 03	1850.7	192.3	273.6	185.7	223.6	2019.4	468.6	220.8	1505.5	408.8	536.8	633.7
Stream 04	1385.8	110.2	478.1	200.9	207.7	1664.7	663.5	226.3	2079.9	166	482.7	865.9
Stream 05	1376.2	117.4	633.2	585.9	215	2164.7	533	278.6	2710.4	206.1	700.4	601.8
Stream 06	1659.6	135.7	251.6	230.1	130.3	1988	515.5	214.8	1325	569.6	604.4	598.1
Minimum	1376.20	110.20	251.60	181.20	130.30	1664.70	468.60	214.80	544.10	166.00	482.70	517.80
Average	1615.52	209.05	419.32	307.75	284.98	2023.87	550.53	271.18	1795.67	390.72	591.03	629.77
Maximum	1891.80	530.10	633.20	585.90	510.50	2207.10	663.50	451.10	2710.40	569.60	700.40	865.90