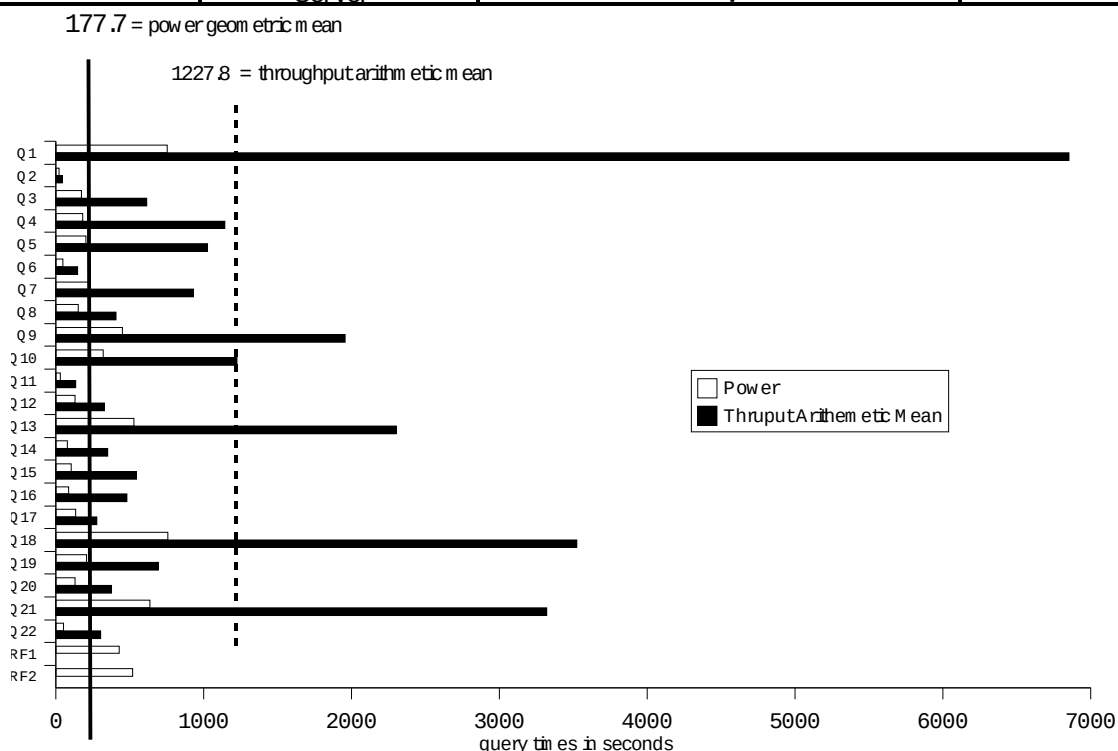


Sun Fire™ V240 Server with Sybase IQ 12.5 Single Application Server

TPC-H Rev.2.0

Report Date: May 9, 2005
Revision Date: July 25, 2005

Total System Cost		Composite Query per Hour Metric		Price/Performance
\$20614.70		1712.6 Q phH @ 100GB		\$12 per Q phH @ 100GB
Database Size	Database Manager	Operating System	Other Software	Availability Date
100GB	Sybase IQ 12.5 Single Application Server	Solaris 10	Solaris Volume Manager	May 9, 2005



Database Load Time = 4 hrs 20 mins

Load Includes Backup: N

Total Storage/Database Size=2.72

RAID (Base tables): RAID 1

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

RAID (All): N

System Configuration:

SunFire V240 Server with

2 UltraSPARC III 1.5 GHz processors

8 GB memory

4 x 73GB (10K RPM) internal disks

Total Storage: 271.9 GB

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



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Description	Part Number	Source	Unit Price	Qty	Ext. Price	3 Yr. Maint.
Server Hardware						
SunFire V240, 2 x 1.5G Hz CPUs, 8G B memory, 2 x 73G disk drives	N32-XKB2B2808HB	1	11,295.00	1	11,295.00	
73 GB 10K SCSI disk	XRA-SC1CB73G10K	1	475.00	2	950.00	
3 Year Gold Warranty Upgrade - (includes all disks)		1	3,492.00	1		3,492.00
Sun Discount		1			-2,204.10	-1,222.20
Server Hardware Subtotal					10,040.90	2,269.80
Storage (external)						
None						
Storage Subtotal					0.00	0.00
Server Software						
Sybase IQ M Single App Svr - per cpu	11467	2	2,595.00	2	5,190.00	
Sybase IQ 3 Years Extended Support 24 x 7 per cpu	98477	2	1,557.00	2		3,114.00
Sybase Discount		2			0.00	
Server Software Subtotal					5,190.00	3,114.00
Total					15,230.90	5,383.80
3 Yr. Cost					20,614.70	
QphH@ 100GB					1,712.60	
\$QphH@ 100GB					\$12	

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

Service for Sybase products is from Sybase Inc.

Notes (Source):

1. Sun Microsystems Inc.

2. Sybase Inc.

3. Price quotes provided in Appendix G

4. The pricing of the Sybase IQ Single Application Server was found to be an "insignificant deviation" of Clause 0.2 by the General Council. This was corrected by increasing the visibility of Sybase IQ Single Application Server on the Web.

Audited by: Brad A skins, 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™ V240 Server with Sybase IQ 12.5 Single Application Server

TPC-H Rev.2.0

Report Date: May 9, 2005
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Numerical Quantities

Measurement Results:

Database Scale Factor	= 100GB
Total Data Storage / Database Size	= 2.72
Start of database load time	= 2005-01-12 16:34:32
End of database load time	= 2005-01-12 20:54:25
Database Load Time	= 4 hrs 20 mins
Query Streams for Throughput Test	= 5
TPC-H Power	= 2,026.2
TPC-H Throughput	= 1,447.5
TPC-H Composite Query-per-Hour Rating (QphH @ 100GB)	= 1712.6
Total System Price Over 3 Years	= \$20614.70
TPC-H Price/Performance Metric (\$/QphH @ 100GB)	= \$12

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 27,358 seconds
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Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time	Duration
Stream 00	112205425	Jan 13, 2005	06:18:28	Jan 13, 2005	08:03:07	1:46:39
Stream 01	112205426	Jan 13, 2005	08:03:07	Jan 13, 2005	15:39:05	7:35:58
Stream 02	112205427	Jan 13, 2005	08:03:07	Jan 13, 2005	15:24:34	7:21:27
Stream 03	112205428	Jan 13, 2005	08:03:07	Jan 13, 2005	15:32:48	7:29:41
Stream 04	112205429	Jan 13, 2005	08:03:07	Jan 13, 2005	15:36:10	7:33:03
Stream 05	112205430	Jan 13, 2005	08:03:07	Jan 13, 2005	15:34:04	7:30:57
Refresh		Jan 13, 2005	08:03:07	Jan 13, 2005	13:46:32	5:43:25



Sun Fire™ V 240 Server
with Sybase IQ 12.5 Single
Application Server

TPC-H Rev.2.0

Report Date: May 9, 2005
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TPC-H Timing Intervals (in seconds)

	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10	Q 11	Q 12
Stream 00	755.49	23.16	174.22	182.57	202.84	49.12	226.20	154.36	452.99	323.70	32.16	131.10
Stream 01	6755.30	42.65	1052.95	680.69	1154.31	90.50	734.69	387.09	1539.74	871.50	118.46	314.95
Stream 02	6259.67	52.41	672.18	562.13	631.54	255.70	1169.35	348.23	2253.38	1508.04	135.88	354.95
Stream 03	8617.57	34.03	441.57	977.54	1179.55	149.38	987.57	755.40	2234.60	893.63	109.86	273.69
Stream 04	6353.61	49.32	444.52	1380.30	1581.23	109.53	900.07	250.90	2110.13	1840.13	119.90	321.70
Stream 05	6285.32	38.72	458.59	2123.80	584.95	137.72	867.19	306.38	1659.21	1016.49	200.85	396.16
Minimum	6259.67	34.03	441.57	562.13	584.95	90.50	734.69	250.90	1539.74	871.50	109.86	273.69
Average	6854.30	43.42	613.96	1144.89	1026.32	148.57	931.77	409.60	1959.41	1225.96	136.99	332.29
Maximum	8617.57	52.41	1052.95	2123.80	1581.23	255.70	1169.35	755.40	2253.38	1840.13	200.85	396.16

	Q 13	Q 14	Q 15	Q 16	Q 17	Q 18	Q 19	Q 20	Q 21	Q 22	RF1	RF2
Stream 00	529.05	79.26	104.64	87.27	134.65	757.08	206.63	131.69	637.91	53.60	431.54	522.28
Stream 01	2356.76	319.68	869.22	536.97	166.91	3678.95	867.37	341.20	4193.93	281.34	807.27	1176.33
Stream 02	2118.79	416.63	489.97	630.65	550.91	3795.07	660.59	456.27	2879.87	282.52	712.99	928.93
Stream 03	2259.43	314.28	550.46	475.13	214.78	3407.97	596.40	269.54	1993.04	243.29	632.38	1158.97
Stream 04	2370.27	345.99	397.81	351.75	280.31	3009.84	801.29	181.43	3749.27	231.26	635.85	1019.10
Stream 05	2425.60	353.65	418.76	423.24	179.24	3725.32	536.96	636.03	3797.62	483.41	655.51	861.79
Minimum	2118.79	314.28	397.81	351.75	166.91	3009.84	536.96	181.43	1993.04	231.26	632.38	861.79
Average	2306.17	350.05	545.24	483.55	278.43	3523.43	692.52	376.90	3322.74	304.36	688.80	1029.03
Maximum	2425.60	416.63	869.22	630.65	550.91	3795.07	867.37	636.03	4193.93	483.41	807.27	1176.33