



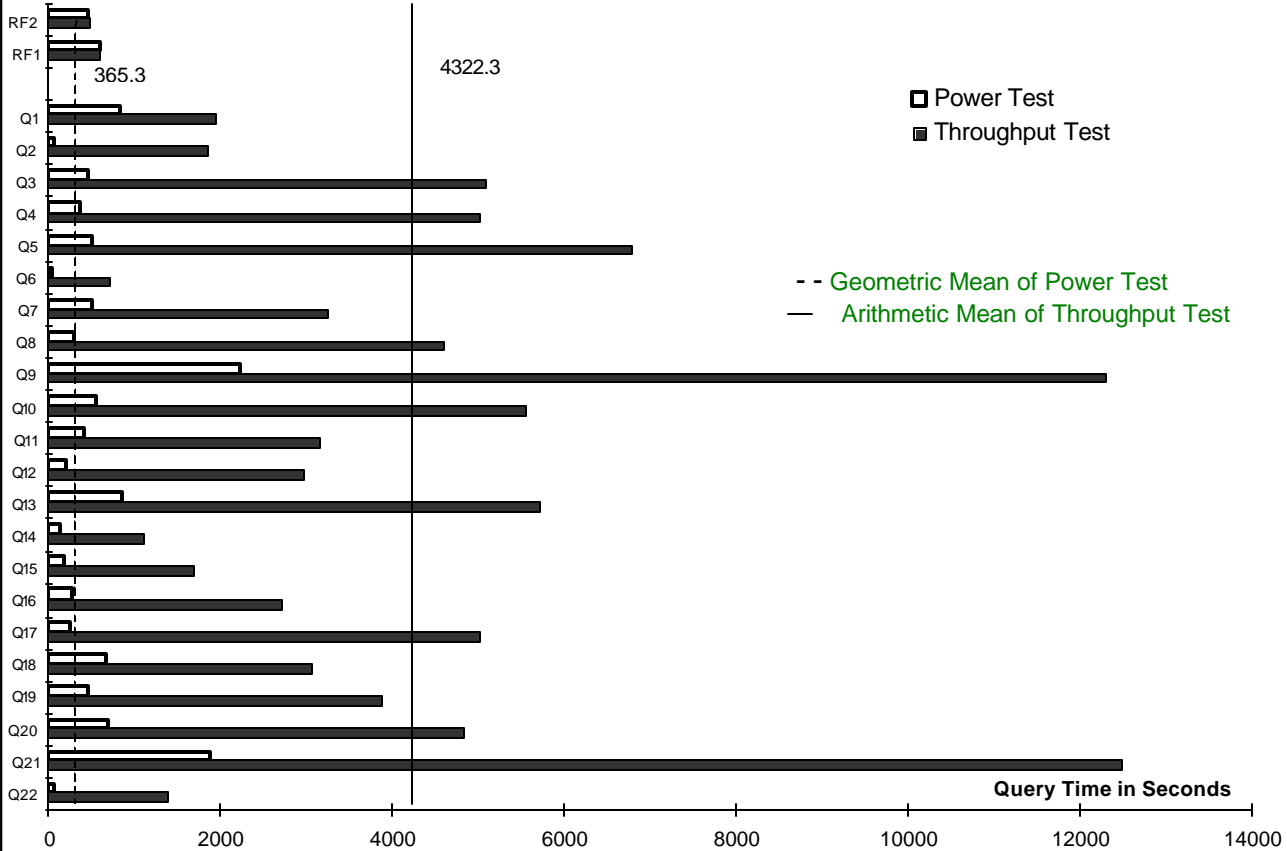
NCR 5350

Using Teradata V2R5.0

TPC-H Rev 2.0.0

Report Date: Dec. 23, 2002
Updated: Mar. 12, 2003

Total System Cost	Composite Query Per Hour Rating		Price/Performance	
\$ 19,774,904	81,501.6 QphH@10000GB		\$243 per QphH@10000GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
10000GB	Teradata V2R5.0	UNIX MP-RAS 3.02.00	None	HW: Now SW: Now



Database Load Time = 17Hrs 10 Mins	Load included backup: N	Total Data Storage / Database Size = 9.5
RAID (base tables):	RAID (Base tables & Auxiliary Data Structures) =	RAID (All): Y

System Configuration

Processors: 64 x 2 Intel Xeon 2.8 GHz CPUs w/512 KB Cache
 Memory (per node): 4 GB Memory
 Disk Drives (per **four** nodes): 3 Dual Controller Array each w/56 X 36GB 15K drives
 16 18GB internal drives (4 per node)
 BYNET interconnect support with 2 64-port BYNET switches

Total GB of Storage = 95409 GB

* Database size includes only raw data (e.g. no temp, index, redundant storage space, etc.)



NCR 5350
Teradata DBS V2R5.0

TPC-H Rev. 2.0.0
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Numerical Quantity Summary

Measurement Results:

Database Scale Factor	=	10000
Total Data Storage / Database Size	=	9.5
Start of Database Load Time	=	12-11-02 16:00:38
End of Database Load Time	=	12-12-02 09:10:08
Database Load Time	=	17 hrs. 10 min.
Query Streams for Throughput Test	=	9
TPC-H Power	=	98,551.1
TPC-H Throughput	=	67,401.7
Composite QphH@10000GB	=	81,501.6
Total System Price Over 3 Years	=	\$19,774,904
TPC-H Price/Performance Metric	=	\$243

Measurement Intervals:

Measurement Interval in Throughput Test (Ts) = 105,754 seconds

Duration of stream execution:

StreamID	Seed	Start Date	Start Time	End Date	End Time	Duration
Stream00	1212091008	12/14/02	03:09:17	12/14/02	06:44:52	03:35:35
Stream01	1212091009	12/14/02	06:44:52	12/15/02	09:24:29	26:39:36
Stream02	1212091010	12/14/02	06:44:52	12/15/02	09:17:33	26:32:40
Stream03	1212091011	12/14/02	06:44:52	12/15/02	09:08:23	26:23:31
Stream04	1212091012	12/14/02	06:44:52	12/15/02	08:24:32	25:39:39
Stream05	1212091013	12/14/02	06:44:52	12/15/02	09:26:21	26:41:28
Stream06	1212091014	12/14/02	06:44:52	12/15/02	09:07:05	26:22:12
Stream07	1212091015	12/14/02	06:44:52	12/15/02	08:58:19	26:13:26
Stream08	1212091016	12/14/02	06:44:52	12/15/02	09:18:18	26:33:25
Stream09	1212091017	12/14/02	06:44:52	12/15/02	09:22:32	26:37:39
Refresh		12/14/02	06:44:52	12/15/02	12:07:26	29:22:33

TPC-H Timing Intervals

Query	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Stream0	838.5	72.1	454.5	373.7	504.2	47.9	511.1	274.9
Stream01	1953.1	2421.8	5142.1	1856.6	6879.9	656.4	3423.3	4443.9
Stream02	1759.4	2050.8	5251.1	4753.8	7261.0	1947.8	3030.1	3983.5
Stream03	1927.4	2078.3	4503.3	4980.7	6768.6	369.9	3178.1	5438.5
Stream04	1878.9	941.8	5046.7	5712.4	7485.6	572.6	4018.6	5334.8
Stream05	2697.7	1852.9	5208.9	3645.2	7372.1	258.7	1871.8	4584.5
Stream06	1799.1	1402.7	4741.8	6099.4	7259.2	412.9	3323.9	2566.5
Stream07	2085.7	2269.7	4567.2	6195.0	7858.9	603.9	3651.5	4145.0
Stream08	1440.1	1719.0	5332.3	6406.2	5404.4	954.3	2603.2	4948.8
Stream09	1802.7	1894.6	5935.6	5449.2	4918.8	565.8	4118.4	5968.2
Min Qi	1440.1	941.8	4503.3	1856.6	4918.8	258.7	1871.8	2566.5
Max Qi	2697.7	2421.8	5935.6	6406.2	7858.9	1947.8	4118.4	5968.2
Avg Qi	1927.1	1848.0	5081.0	5010.9	6800.9	704.7	3246.5	4601.5
Query	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
Stream0	2217.3	554.6	423.5	196.2	857.6	127.2	185.2	273.6
Stream01	15987.2	5082.4	3943.8	3422.0	5291.5	1618.4	1428.3	3349.5
Stream02	12219.6	4338.3	4475.0	3669.8	6325.6	1208.6	1129.0	2826.4
Stream03	10212.3	7260.4	2931.2	2758.7	6780.0	928.9	1499.1	3420.7
Stream04	10768.5	5162.8	3396.8	2953.5	4621.6	705.1	1261.7	2931.5
Stream05	12547.9	5817.8	3065.0	3308.7	5183.7	1101.1	1560.3	2424.9
Stream06	14598.5	5369.8	2749.1	2637.0	5469.4	1203.7	1193.7	2684.2
Stream07	10394.5	5515.5	2676.8	2076.5	5778.9	1080.4	1881.8	3600.9
Stream08	12102.5	5116.0	1629.0	3152.8	6272.1	823.7	3275.9	2481.1
Stream09	11938.8	6468.9	3655.4	2820.9	5613.5	1283.0	2001.9	552.6
Min Qi	10212.3	4338.3	1629.0	2076.5	4621.6	705.1	1129.0	552.6
Max Qi	15987.2	7260.4	4475.0	3669.8	6780.0	1618.4	3275.9	3600.9
Avg Qi	12307.7	5570.2	3169.1	2977.8	5704.0	1105.9	1692.4	2696.9
Query	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream0	247.0	655.1	451.9	677.7	1870.5	63.5	597.5	460.5
Stream01	5232.2	2776.1	3450.5	3662.2	12541.9	1413.6	590.9	469.5
Stream02	5267.2	3007.6	3281.8	5920.1	10426.2	1428.1	603.2	471.8
Stream03	3162.3	2943.0	3473.8	5875.9	13169.5	1350.6	606.6	477.8
Stream04	6031.4	2847.3	3205.1	4925.2	11258.0	1320.0	601.5	472.6
Stream05	6534.5	3250.7	4135.1	4912.0	13169.9	1585.4	603.1	472.6
Stream06	4789.3	3427.2	3950.7	4371.5	13023.8	1859.1	603.5	471.4
Stream07	5397.7	3985.8	4318.7	4390.0	10681.2	1251.1	596.6	473.4
Stream08	4987.4	2601.5	5354.0	4846.2	13152.8	1002.3	603.4	473.3
Stream09	3650.9	2709.0	3617.8	4616.3	15020.5	1257.3	601.4	471.9
Min Qi	3162.3	2601.5	3205.1	3662.2	10426.2	1002.3	590.9	469.5
Max Qi	6534.5	3985.8	5354.0	5920.1	15020.5	1859.1	606.6	477.8
Avg Qi	5005.9	3060.9	3865.3	4835.5	12493.8	1385.3	601.1	472.7