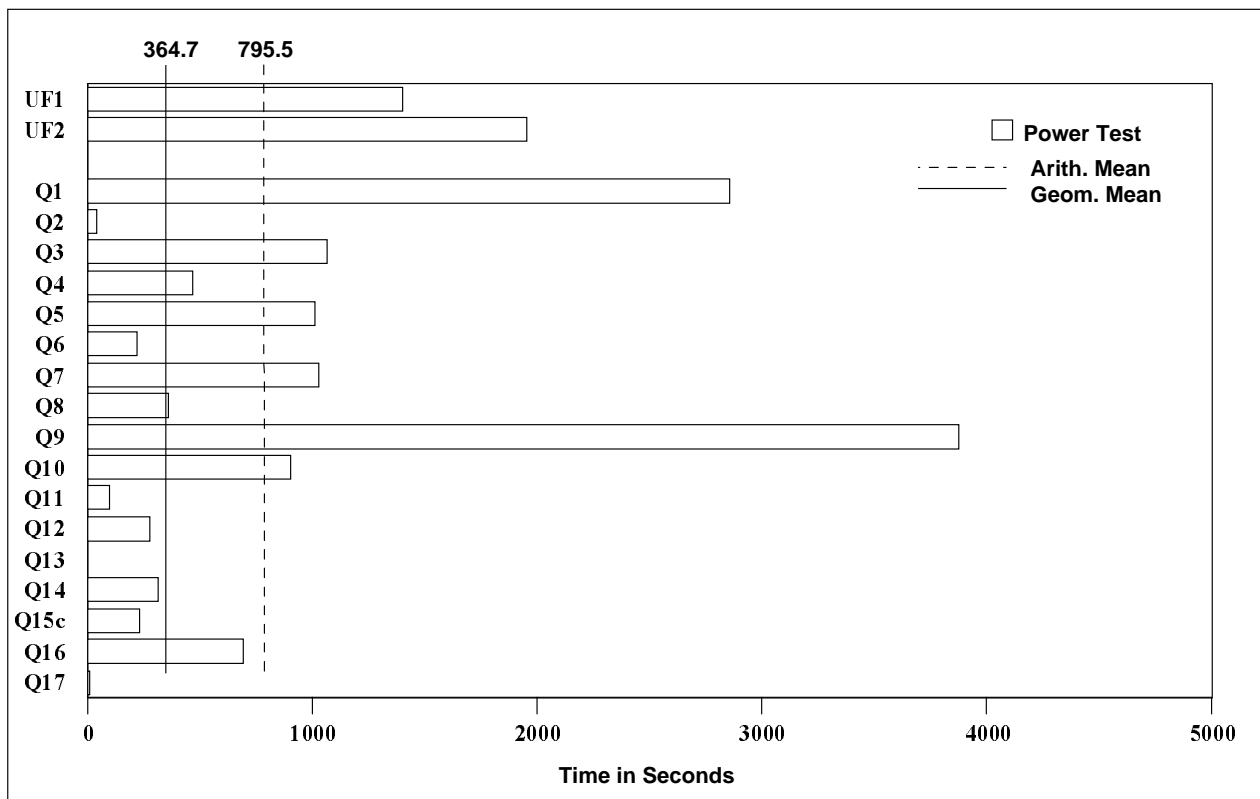


**IBM Netfinity 7000
with DB2 UDB 5.2.0**

TPC-D Rev 1.3.1

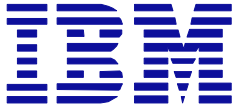
Report Date: 1 June 1998

Total System Cost		TPC-D Power	TPC-D Throughput	Price/Performance
\$169,942		987.2 QppD@100GB	362.4 QthD@100GB	\$284 per QphD@100GB
Database Size	Database Manager	Operating System	Other Software	Availability Date
100GB	DB2 UDB 5.2.0	Windows NT Server 4.0	Visual C++ 4.2	October 31, 1998



Database Load Time: 77h 54m 38s	Total Data Storage/Database Size: 3.75	RAID: N
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Components	Qty	
Processors	4	200MHz Pentium Pro / 1MB L2 Cache
Memory	2	1024MB
Disk Controllers	3	IBM ServeRAID II Ultra SCSI Adapter
Disk Drives	83	4.51GB
Total Storage		374.33GB



**IBM Netfinity 7000
with DB2 UDB 5.2.0**

TPC-D Revision 1.3.1

Report Date: 1 June 1998

Description	Part Number	Source	Unit Price	Qty	Ext. Price	5-Yr. Maint.**
Server Hardware						
IBM Netfinity 7000 / 200MHz PentiumPro/1MB L2 Cache	8651-RH0	1	12,674	1	12,674	5,985
200MHz / 1MB Processor Upgrade	94G7147	1	4,843	3	14,529	0
Netfinity 1024MB Memory Expansion Kit	94G7386	1	5,725	2	11,450	0
IBM ServeRAID II Ultra SCSI Adapter	76H3584	1	1,785	3	5,355	0
Third Channel Cable	76H5400	1	27	2	54	0
IBM 4.51GB 10K Wide Ultra SCSI Drive	01K7960	1	758	3	2,274	0
IBM 4.3M External .8mm SCSI Cable	01K8029	1	56	8	448	0
IBM Auto/4 PCI Token-Ring Adapter	41H8900	1	210	1	210	0
IBM G42 14" (13.2" Viewable) Color Monitor	654000N	1	209	1	209	408
20/40GB SCSI Tape Drive	76H0485	1	3,157	1	3,157	0
Netfinity Rack	9306900	1	1,733	1	1,733	0
Side Panel Kit	94G6669	1	201	1	201	0
Subtotal					52,294	6,393
Server Software						
DB2 UDB 5.2.0 Workgroup Edition		2	999	1	999	0
DB2 UDB 5.2.0 10-User License		2	1,849	1	1,849	0
Microsoft Windows NT Server 4.0 SP4		3	809	1	809	0
Microsoft Visual C++ and Subscription Service		3	499	1	499	0
Microsoft Priority Plus Database Server Support		3	2,095	5		10,475
Subtotal					4,156	10,475
Storage Devices						
IBM Netfinity EXP10 Rack Storage Exp.	35201RU	1	2,698	8	21,584	14,400
Netfinity EXP10 4.51GB 10K Wide Ultra SCSI	01K8009	1	758	80	60,640	0
Subtotal					82,224	14,400
Total					138,674	31,268

Pricing: 1 - Entex Information Services; 2 - IBM; 3 - Microsoft Corp.

** The standard 3-year warranty and the extended warranty on all hardware are for 7x24, on site same day coverage.

Audited by Francois Raab of Information Paradigm.

Five-Year Cost of Ownership: \$169,942

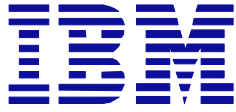
QppD @ 100GB: 987.2

QthD @ 100GB: 362.4

QphD @ 100GB: 598.1

\$ / QphD @ 100GB: \$284

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



**IBM Netfinity 7000
with DB2 UDB 5.2.0**

TPC-D Rev 1.3.1

Report Date: 1 June 1998

Measurement Results:

Database Scaling (SF/Size)	100
Total Data Storage/Database Size	3.75
Database Load Time	77:54:38
Query Streams for Throughput Test	0
TPC-D Power Metric (QppD@100GB)	987.2
TPC-D Throughput Metric (QthD@100GB)	362.4
Composite Query-per-Hour Rating (QphD@100GB)	598.1
Total System Price over 5 Years	\$169,942
TPC-D Price/Performance Metric (\$/QphD@100GB)	\$284

Measurement Intervals:

Measurement Intervals in Throughput Test (Ts) = 16,886 se conds

Duration of Stream Execution

Stream ID	Seed Used	Start Date	Start Time	End Date	End Time
UF1		05/27/98	14:18:03	05/27/98	14:41:28
Stream 0	1833	05/27/98	14:18:03	05/27/98	18:59:29
UF2		05/27/98	18:26:50	05/27/98	18:59:29

Timing Intervals (in seconds):

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9
Stream 00	2859.9	44.0	1066.4	473.4	1015.1	226.3	1030.7	363.8	3881.2

Stream ID	Q10	Q11	Q12	Q13	Q14	Q15c	Q16	Q17	UF1	UF2
Stream 00	908.0	99.0	284.3	2.5	319.4	236.0	697.3	15.5	1405.8	1958.4