

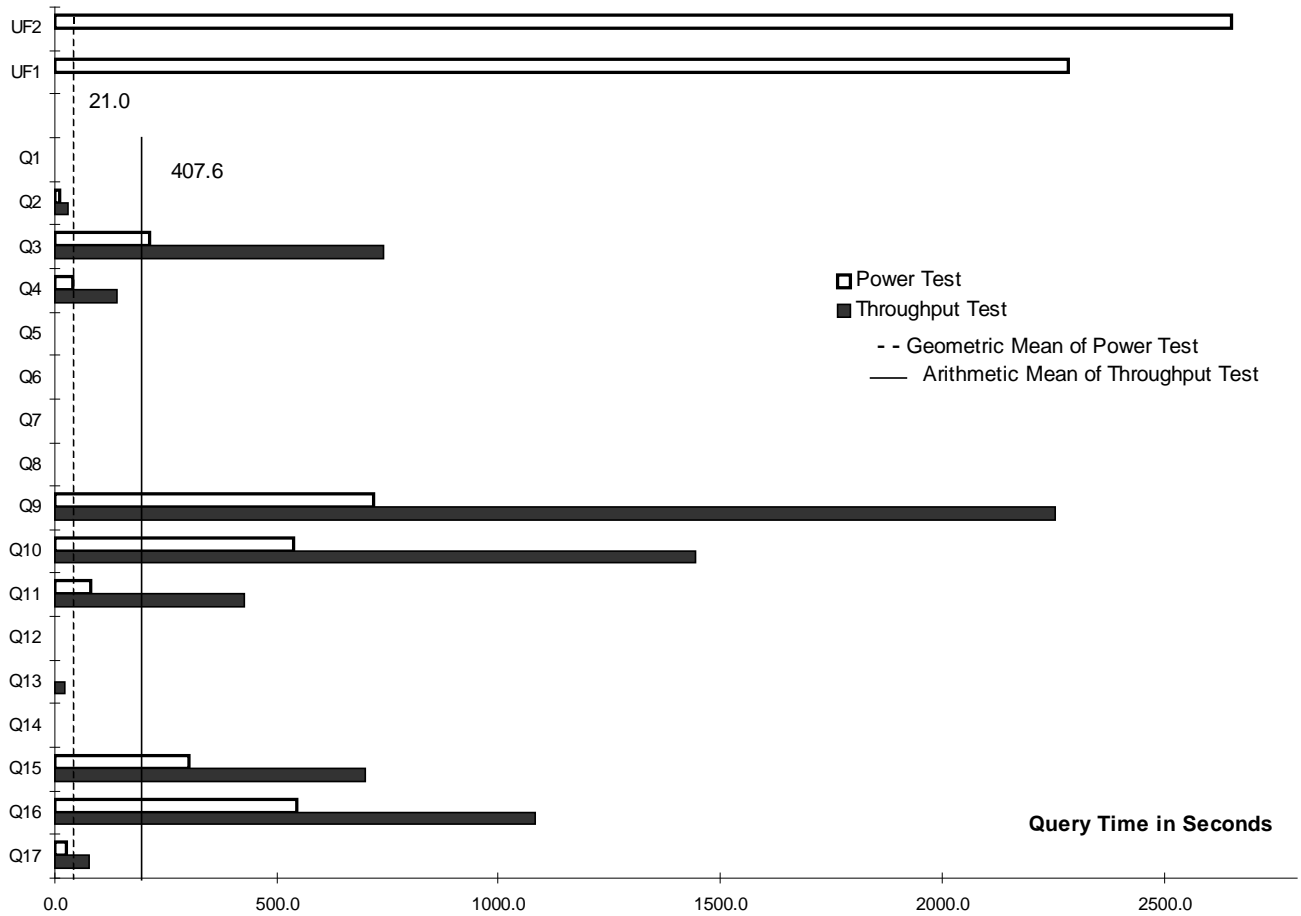


# WorldMark 4400 Using Teradata V2R3.0

TPC-D Rev 1.3.1

Report Date:  
June 18, 1999

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance
<b>\$321,812</b>	<b>17,115.2</b> QppD@100GB	<b>869.1</b> QthD@100GB	<b>\$83</b> per QphD@100GB
Database Size	Database Manager	Operating System	Other Software   Availability Date
<b>100GB</b>	<b>Teradata V2R3.0</b>	<b>UNIX SVR4</b> <b>MP-RAS 03.02.00</b>	<b>None</b>   <b>HW: 4-16-99</b> <b>SW: 8-10-99</b>



Database Load Time = 47 Hrs 9 Mins | Total Data Storage / Database Size = 5.34 | RAID = N

**1 4400 Node:**

- 4 Intel Pentium II Xeon 450 MHz CPUs 2 MB Cache
- 2 GB Memory
- 2 Ultra SCSI Adapters
- 1 CD-ROM Unit, Floppy Drive & Tape Drive
- 1 Network card
- 3 9GB internal drives
- 6 Disk modules, each with 10 x 9 GB drives

**Total GB of Storage =534.2**



# WorldMark 4400 Teradata DBS V2R3.0

TPC-D Rev. 1.3.1

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Product I.D.	Description	Qty	UNIT PRICE	EXT PRICE	5-YR MAINT
4400-4361-8090	WM4400D/SDW/2PIIX/2M,1GB,27GB	1	\$ 39,520	\$ 39,520	\$ 17,373
4400-F027	Processor, PII Xeon 450/2M w Heatsink	2	\$ 8,560	\$ 17,120	\$ 1,380
4400-F060	Cord, Power - US 120 V	4	\$ 40	\$ 160	\$ -
3498-2244-8090	Monitor 14" Color, MPR II, DDC	1	\$ 240	\$ 240	\$ 226
4400-F048	VRM, Board	3	\$ 20	\$ 60	\$ -
4400-F700	Keyboard - US 120V	1	\$ 40	\$ 40	\$ -
4400-F147	Adpt - PCI Ethernet 10/10	1	\$ 76	\$ 76	\$ -
4400-F118	Memory DIMM 1 GB EDO (4 x 256MB)	1	\$ 5,800	\$ 5,800	\$ -
4400-F129	Adapt - PCI - Quad	3	\$ 2,236	\$ 6,708	\$ -
<b>Server Hardware</b>				<b>\$ 69,724</b>	<b>\$ 18,979</b>
6282-1101-XXXX	Entry level modular JBOD	6	\$ 2,250	\$ 13,500	\$ 25,105
6282-F129	EL 9.1 (1) 10000 RPM Disk Drive	54	\$ 1,125	\$ 60,750	\$ -
9100-K931	Symbios Cable Kit	6	\$ 1,688	\$ 10,125	\$ -
<b>Storage Devices</b>				<b>\$ 84,375</b>	<b>\$ 25,105</b>
F784-1406-0000	V2R3 4400 Up to 4 CPU	1	\$ 40,000	\$ 40,000	\$ 67,500
F481-6030-0000	NFS OE 1-8 users	1	\$ 1,520	\$ 1,520	\$ -
F784-5020-0000	Teradata CLI for SMP Node	1	\$ 1,600	\$ 1,600	\$ 2,430
F784-5021-0000	Teradata BTEQ for SMP Node	1	\$ 200	\$ 200	\$ 304
F784-5022-0000	Teradata FastLoad for SMP Node	1	\$ 4,000	\$ 4,000	\$ 6,075
<b>Software</b>				<b>\$ 47,320</b>	<b>\$ 76,309</b>
<b>TOTAL</b>				<b>\$ 201,419</b>	<b>\$ 120,393</b>
<b>FIVE YEAR COST OF OWNERSHIP</b>					<b>\$ 321,812</b>

"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 specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org). Thank you."

Audited by: Francois Raab  
Information Paradigm



# WorldMark 4400 Teradata DBS V2R3.0

TPC-D Rev. 1.3.1

Report Date:  
June 18, 1999

## Numerical Quantity Summary

### Measurement Results:

Scale Factor	= 100
Total Data Storage / Database Size	= 5.34
Database Load Time	= 47 Hrs 9 Min
Query Streams for Throughput Test	= 3
Geometric Mean of Power Test	= 21.0
TPC-D Power Metric (QppD@100GB)	= 17,115.2
TPC-D Throughput Metric (QthD@100GB)	= 869.1
Composite QphD@100GB	= 3,856.8
Total System Price Over 5 Years	= \$ 321,812
TPC-D Price/Performance Metric	= \$83.44

### Measurement Intervals:

Measurement Interval in Throughput Test (Ts) =21,125 seconds

### Duration of stream execution:

Stream ID	Seed	Start-Date	Start-Time	End-Date	End-Time	Total Time
Stream00	68870749	2/5/99	15:56:31	2/5/99	18:00:08	7,417
Stream01	68870750	2/5/99	18:00:08	2/5/99	19:51:08	6,660
Stream02	68870751	2/5/99	18:00:08	2/5/99	20:01:55	7,307
Stream03	68870752	2/5/99	18:00:08	2/5/99	19:53:57	6,829
Updates		2/5/99	18:00:08	2/5/99	23:52:13	21,125

### TPC-D Timing Intervals (in seconds):

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
<b>Stream0</b>	0.4	10.5	214.5	40.4	0.5	0.2	0.7	0.7	718.6	538.0
<b>Stream01</b>	0.4	51.0	597.8	40.5	0.6	0.4	0.8	4.2	2254.9	1234.1
<b>Stream02</b>	0.8	10.2	681.6	254.5	0.5	1.2	0.8	0.8	2383.0	1658.3
<b>Stream03</b>	0.3	22.0	941.5	126.8	0.5	0.2	2.4	0.9	2129.1	1442.7
<b>Minimum</b>	0.3	10.2	597.8	40.5	0.5	0.2	0.8	0.8	2129.1	1234.1
<b>Average</b>	0.5	27.7	740.3	140.6	0.5	0.6	1.3	2.0	2255.7	1445.1
<b>Maximum</b>	0.8	51.0	941.5	254.5	0.6	1.2	2.4	4.2	2383.0	1658.3

	Q11	Q12	Q13	Q14	Q15	Q16	Q17	UF1	UF2
<b>Stream0</b>	80.8	0.3	2.2	0.2	302.8	543.9	26.6	2282.6	2653.0
<b>Stream01</b>	444.1	0.2	4.4	0.6	666.6	1320.8	34.9	9251.8	2694.2
<b>Stream02</b>	680.2	0.4	54.1	0.4	855.4	567.6	153.4	1914.6	2702.1
<b>Stream03</b>	157.1	0.3	5.2	0.3	582.1	1365.4	49.0	1842.6	2720.3
<b>Minimum</b>	157.1	0.2	4.4	0.3	582.1	567.6	34.9	1842.6	2694.2
<b>Average</b>	427.1	0.3	21.2	0.4	701.4	1084.6	79.1	4336.3	2705.5
<b>Maximum</b>	680.2	0.4	54.1	0.6	855.4	1365.4	153.4	9251.8	2720.3