

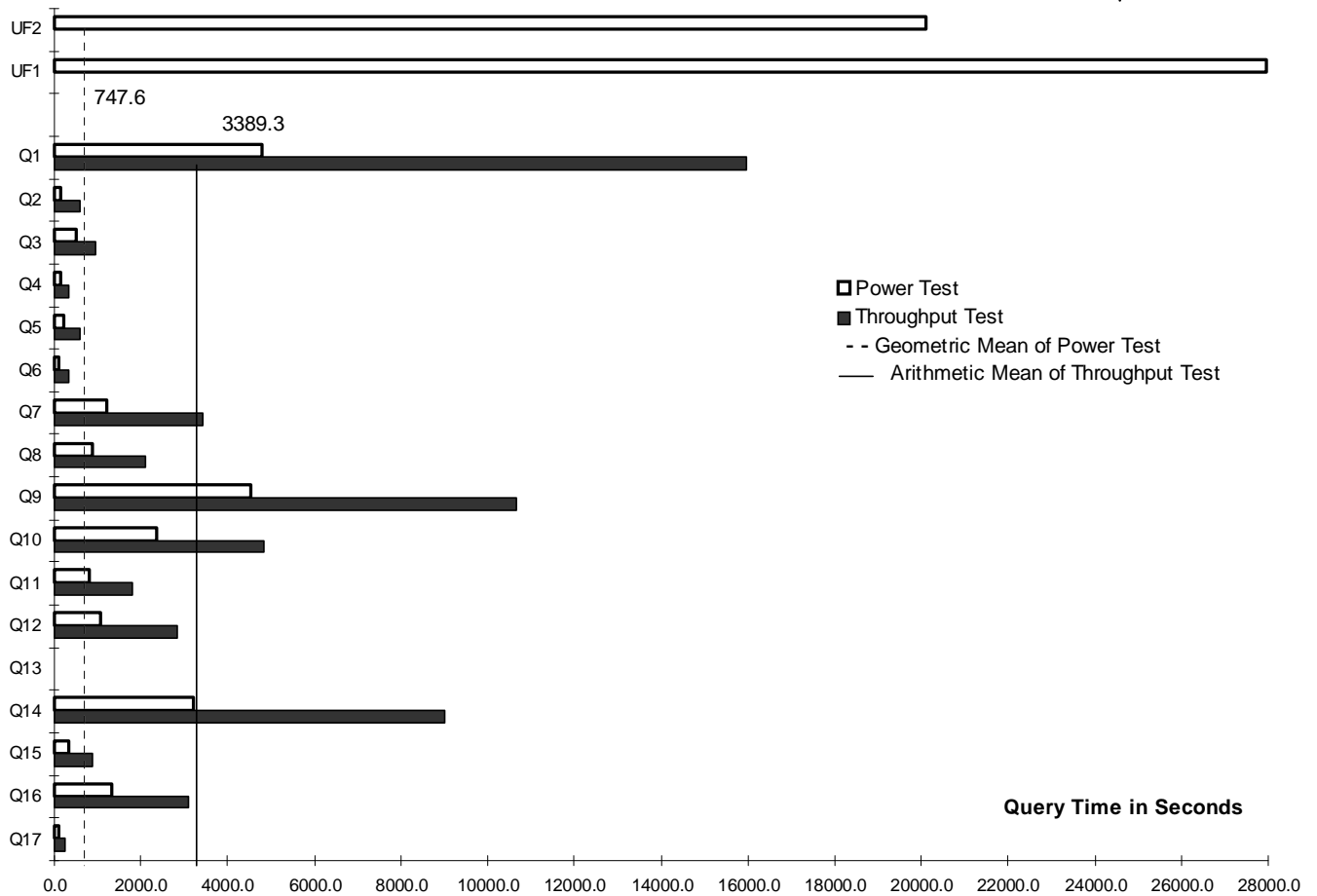


# WorldMark 5150 Server Using Teradata V2R2.1

TPC-D Rev 1.3.1

Report Date:  
June 19, 1998

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance	
<b>\$14,876,362</b>	<b>14,446.0</b> QppD@3TB	<b>2,938.9</b> QthD@3TB	<b>\$2,284</b> per QphD@3TB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
<b>3 TB</b>	<b>Teradata V2R2.1</b>	<b>UNIX SVR4</b> <b>MP-RAS 03.01.00</b>	<b>None</b>	<b>Now</b>



Database Load Time = 111 Hrs 28 Mins	Total Data Storage / Database Size = 3.69	RAID = Y
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**32 Nodes, each with:**

- 4 Intel Pentium Pro 200 MHz CPUs
- 1 GB Memory
- 2 Quad Ultra SCSI Adapters
- 1 9GB internal drive
- 2 6285-1220 RAID5 units in one storage cabinet
- 2 Series 4 controllers with 32 MB cache
- 40 x 9 GB drives

**BYNET interconnect support with:**

- 4 BYNET chassis type BYA
- 2 BYNET chassis type BYB

**Total GB of Storage = 11,072.3**



# WorldMark Server Teradata DBS V2R2.1

TPC-D Rev. 1.3.1

Report Date:  
June 19, 1998

PRODUCT ID	DESCRIPTION	QTY	NET PRICE	EXT PRICE	5-YR MAINT
9100-5151-8090	Worldmark 5150 System Cabinet	2	\$376,500	\$753,000	\$378,415
9100-5152-8090	Worldmark 5150 Extender Cabinet	1	\$736,500	\$736,500	\$229,332
9100-4704-8090	Worldmark 5150 & 4700 Expansion Cabinet	13	\$297,750	\$3,870,750	\$563,238
9100-F149	ADPT - Ethernet EISA - 10/100	2	\$221	\$443	\$0
3426-7604-XXXX	AWS Console/4 (6+ Nodes)	1	\$13,500	\$13,500	\$3,828
3498-2292-8090	21in Color Monitor [AWS]	1	\$1,875	\$1,875	\$1,458
9100-K934-	BYNET Cable Kit (per node)	32	\$900	\$28,800	\$0
9100-K935	Systems Accessories Kit	1	\$720	\$720	\$0
9100-K931-	Symbios Cable Kit	64	\$1,688	\$108,000	\$0
1428-C001-0000	Power cord for Monitor	1	\$0	\$0	\$0
1412-C126-0100	BYNET 128 Cable 10.0M	16	\$450	\$7,200	\$0
<b>Central Equipment Complex Subtotal</b>				<b>\$5,520,788</b>	<b>\$1,176,271</b>
6000-9100-8090	NCR Storage Cabinet	22	\$22,608	\$497,376	\$0
6285-1220-8900	Modular Array (MA) 1220	64	\$10,650	\$681,600	\$348,780
6285-F101	MA Single Controller 32MB Cache	128	\$6,408	\$820,224	\$0
6285-F409	MA (4) 9GB 7200 RPM disk drive	320	\$4,248	\$1,359,360	\$0
6000-F220	Installation of 6285-1220 units	64	\$0	\$0	\$0
6000-F900	Raid Manager 5.0	22	\$0	\$0	\$0
G460-0072-0000	S/W Raid Manager 5.X & RDAC for UNIX V.4	10	\$1,494	\$14,940	\$0
6000-K930	Accessories Kit	1	\$0	\$0	\$0
<b>Storage Devices Subtotal</b>				<b>\$3,373,500</b>	<b>\$348,780</b>
<b>Software Licenses</b>					
F601-7730-0000	EOE/MPP 8 nodes	4	\$37,500	\$150,000	\$186,840
F601-7811-0000	S40 AWS Operating Environment [AWS]	1	\$8,250	\$8,250	\$17,115
F784-1091-0000	Teradata Client, V2R2.0, 4700/5150 (node)	1	\$6,000	\$6,000	\$2,819
F784-2312-0000	Teradata V2R2.0 4700/5150 Base (<=128 users)	1	\$36,000	\$36,000	\$24,300
F784-2332-0000	Teradata V2R2.0 4700/5150 Node (<=128 users; nodes 2-4)	3	\$67,500	\$202,500	\$81,000
F784-2331-0000	Teradata V2R2.0 4700/5150 (Unlimited users)	28	\$101,250	\$2,835,000	\$907,200
<b>Software Subtotal</b>				<b>\$3,237,750</b>	<b>\$1,219,273</b>
<b>TOTAL</b>				<b>\$12,132,038</b>	<b>\$2,744,324</b>
<b>FIVE YEAR COST OF OWNERSHIP</b>					<b>\$14,876,362</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 Server Teradata DBS V2R2.1

**TPC-D Rev. 1.3.1**

**Report Date:  
June 19, 1998**

## Numerical Quantity Summary

### Measurement Results:

Scale Factor	=	3000
Total Data Storage / Database Size	=	3.69
Database Load Time	=	111 Hrs 48 Min
Query Streams for Throughput Test	=	3
Geometric Mean of Power Test	=	747.6
TPC-D Power Metric (QppD@3TB)	=	14,446.0
TPC-D Throughput Metric (QthD@3TB)	=	2,938.9
Composite QphD@3TB	=	6,515.8
Total System Price Over 5 Years	=	\$14,876,362
TPC-D Price/Performance Metric	=	\$2,283.12

### Measurement Intervals:

Measurement Interval in Throughput Test (Ts) = 187,419 seconds

### Duration of stream execution:

Stream ID	Seed	Start-Date	Start-Time	End-Date	End-Time	Total Time
Stream00	2113663408	6/2/98	6:24:55	6/3/98	1:47:58	69,783
Stream01	2113663409	6/3/98	1:47:58	6/3/98	17:48:35	57,636
Stream02	2113663410	6/3/98	1:47:58	6/3/98	17:41:35	57,216
Stream03	2113663411	6/3/98	1:47:58	6/3/98	17:54:39	58,000
Updates		6/3/98	1:47:58	6/5/98	5:51:37	187,419

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

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
<b>Stream0</b>	4779.9	153.1	527	131.9	219.0	97.5	1211	881.1	4549.9	2349.7
<b>Stream01</b>	15752.8	509.9	1220.4	244.0	803.8	297.8	2955.8	1952.8	10619.0	5323.8
<b>Stream02</b>	16306.4	739.2	1105.1	255.8	354.3	402.6	3371.6	2277.7	10146.0	4259.6
<b>Stream03</b>	15845.4	506.5	593.4	462.6	569.8	326.9	3930.5	2062.3	11226.1	4903.0
<b>Minimum</b>	15752.8	506.5	593.4	244.0	354.3	297.8	2955.8	1952.8	10146.0	4259.6
<b>Average</b>	15968.2	585.2	973.0	320.8	576.0	342.4	3419.3	2097.6	10663.7	4828.8
<b>Maximum</b>	16306.4	739.2	1220.4	462.6	803.8	402.6	3930.5	2277.7	11226.1	5323.8
	Q11	Q12	Q13	Q14	Q15	Q16	Q17	UF1	UF2	
<b>Stream0</b>	813.9	1062.2	4.8	3196.3	325.3	1310.9	101.0	27976.7	20095.7	
<b>Stream01</b>	1679.7	2821.5	3.3	9546.2	793.5	2947.9	164.2	80905.9	20549.2	
<b>Stream02</b>	1476.9	3004.5	8.7	8996.1	1045.1	3272.8	194.3	22854.3	20410.0	
<b>Stream03</b>	2231.8	2674.7	11.1	8412.7	810.8	3022.3	410.6	22287.7	20409.9	
<b>Minimum</b>	1476.9	2674.7	3.3	8412.7	793.5	2947.9	164.2	22287.7	20409.9	
<b>Average</b>	1796.1	2833.6	7.7	8985.0	883.1	3081.0	256.4	42015.9	20456.4	
<b>Maximum</b>	2231.8	3004.5	11.1	9546.2	1045.1	3272.8	410.6	80905.9	20549.2	