

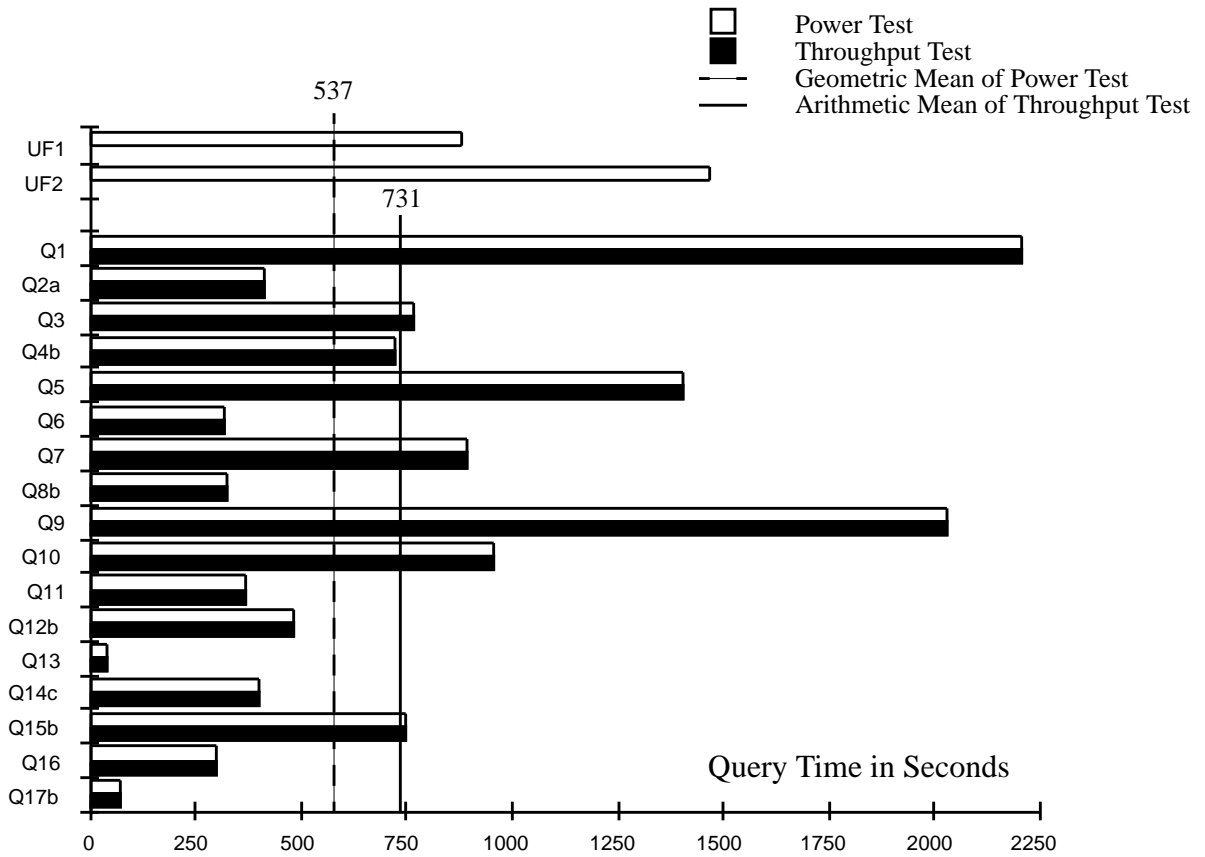


Sun Starfire Ultra Enterprise 10000 using Oracle7

TPC-D 1.2.1

Report Date:
March 21, 1997

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance	
\$5,254,624	2009.5 QppD@300GB	1241.9 QthD@300GB	\$3,326 QphD@300GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
300GB	Oracle7 v7.3.3	Solaris 2.5.1	Veritas Volume Manager 2.3	May 1, 1997 See Note on next page



Database Load Time = 15:09:10 hours

Disk Size/Database Size = 6.04

RAID : Y

System Configuration:

- 64 250Mhz UltraSPARC 64-bit CPUs with 1MB Cache
- 16384 MB memory
- 61 SPARCStorage RSM with 7 x 4.2GB drives each
- 1 (2 x 9 Gbyte) Differential/Wide Disk Tray with 2 x 9 Gbyte drives



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Part Number	Description	Qty	Unit Price	Extended Price	Maintenance per Mo/Yr	5 Yr. Total Maintenance
Server Hardware: Pricing from CAT Technology, Inc.						
E10000	E10000 Base Cabinet	1	142500.00	142,500.00	7,181.00	344,688.00
2760A	CPU System Board, unpop	16	45000.00	720,000.00	772.00	592,896.00
2530A	UltraSPARC 250Mhz 1MB cache	64	12000.00	768,000.00		
2750A	SSP	1	6671.25	6,671.25	123.00	5,904.00
7025A	Memory Board, unpopulated	16	7500.00	120,000.00		
7022A	256MB for Ex000	64	3562.50	228,000.00		
783A	Elite 9 Tray, 2 x 9Gbyte Disks	1	8175.00	8,175.00		
6504A	RSM Tray (7*4.2GB Disk)	61	12150.00	741,150.00		
2730A	Dual SBus IO Board	16	5625.00	90,000.00		
1062A	SBus DiFF Fast/Wide SCSI-2	62	971.25	60,217.50		
9681A	Power Control Module	1	750.00	750.00		
9671A	Fan Tray	16	1500.00	24,000.00		
3800A	Power Cord for North America	4	0.00	0.00		
956A	I/O Expansion Cabinet	6	6000.00	36,000.00	224.00	64,512.00
979A	12 Meter SCSI Cable	62	198.75	12,322.50		
3800A	Power Cord for Expansion Cab	6	0.00	0.00		
3875A	AC Breaker & Filter	4	2250.00	9,000.00		
9685A	48 Volt Power Supply	8	3000.00	24,000.00		

ALL HARDWARE SUBTOTAL **2,990,786.25** **1,008,000.00**

Server and Client Software: Sun Software Pricing from Sun

CC-P	SPARC Compiler Single Usr. License	1	695.00	695.00	20.00	1,140.00
E10000-SW-AP	Software for AP	1	0.00	0.00		0.00
E10000-SW-SSP	Software for SSP	1	0.00	0.00		0.00
SOLS-C	Solaris 2.5.1 on CD-ROM	1	0.00	0.00		0.00

Sun Software Subtotal: □ **695.00** **20.00** **1,140.00**

Oracle pricing from Oracle Corp.

□	Oracle7 License	1	574,080.00	574,080.00		783,360.00
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ALL SOFTWARE SUBTOTAL **574,775.00** **784,500.00**

Discount

Maintenance Volume Discount	5%	-50,457.00
Yearly Prepayment Discount	5%	-52,979.85

TOTAL HARDWARE & SOFTWARE COST (5YR) **5,254,624.40**

QphD **1,579.78**
\$/QphD **3326.17**

Sun hardware has 1-year warranty bundled.
During the warranty period, maintenance is discounted 50%
for parts that require an upgrade to their standard warranty

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. Thank you.

Audited by: Francois Raab, Information Paradigm, Inc.

Note: Hardware available NOW
Oracle Server software available on May 1, 1997



**Sun Starfire
Ultra Enterprise 10000
using Oracle 7**

TPC-D 1.2.1

**Report Date:
March 21, 1997**

Numerical Quantity Summary

Measurement Results:

Database Scaling Factor (SF/Size)	= 300
Total Data Storage / Database Size	= 6.04
Database Load Time	= 15:09:10 hours
Query Streams for Throughput Test	= 0
TPC-D Power Metric (QppD@300GB)	= 2009.5
TPC-D Throughput Metric (QthD@300GB)	= 1241.9
Composite QphD@300GB	= 1579.8
Total System Price Over 5 Years	= \$5,254,624
TPC-D Price/Performance Metric	= \$3,326

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 14,784 Seconds
Duration of Stream Execution:	

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream00	1110820981	Friday March 7	21:55:01 PST	Friday March 7	1:22:17 PST
UF1		Friday March 7	21:40:19 PST	Friday March 7	21:55:01 PST
UF2		Saturday March 8	1:22:17 PST	Saturday March 8	1:46:42 PST

TPC-D Timing Intervals (in seconds)

Q1	Q2a	Q3	Q4b	Q5	Q6	Q7	Q8b	Q9	Q10
2202.8	414.4	769.1	721.9	1404.2	316.0	890.6	324.1	2029.8	953.8

Q11	Q12b	Q13	Q14c	Q15b	Q16	Q17b	UF1	UF2
370.1	484.7	40.7	399.0	745.0	297.0	71.8	882.6	1465.6