

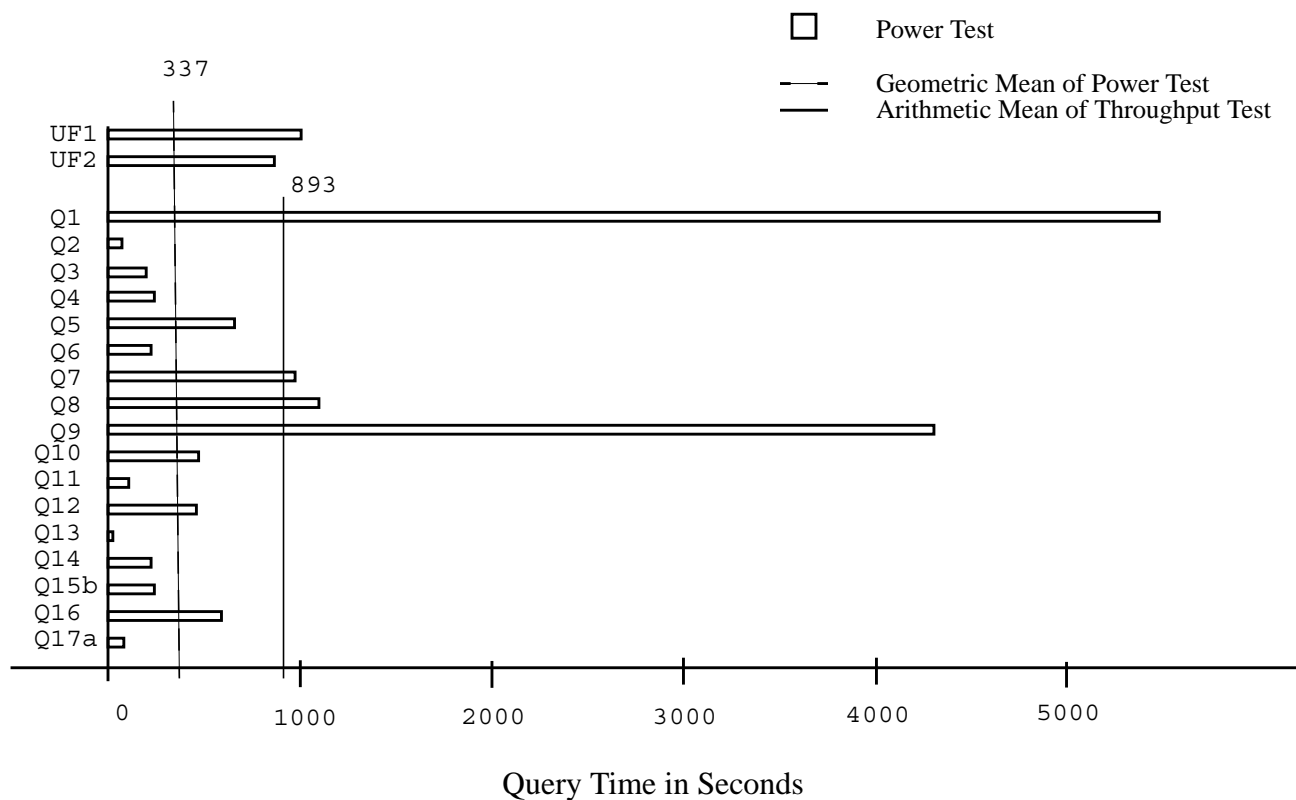


**Sun Ultra
Enterprise 450
with Informix XPS 8.2**

TPC-D 1.2.3

Report Date:
September 18, 1997

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance	
\$468,367	1069.7 QppD@100GB	359.4 QthD@100GB	\$755 \$ per QphD@100GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
100 GB	INFORMIX-OnLine XPS, 8.20.UA2	Solaris 2.6	Sun Enterprise Volume Manager 2.5	Dec. 15, 1997



Database Load Time = 17 hours 1 minute 19 seconds

Disk Size/Database Size = 5.38

RAID : Y

System Configuration:

- 4 300 Mhz UltraSPARC CPUs each with 2MB E-Cache
- 4 GB memory
- 9 Multipacks with 12 4.2 GB disks
- 20 internal 4.2GB disks
- One Ethernet controller
- Total of 537.6 GB of storage



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Part Number	Description	Qty	Unit Price	Extended Price	Maintenance per Mo/Yr	5 Yr. Total Maintenance
Server Hardware						
<i>Pricing from CAT Technology, Inc.</i>						
A25-UEC1-9S-1024C	Ultra 450 Server 300Mhz, 1024MB, 4.2GB	1	38,080	38,080	385	16,170
7005A	512MB memory (2x 256MB DIMMs)	6	8,700	52,200		
2240A	300MHz UltraSPARC-2 CPU, 2MB Ecache	3	7,500	22,500		
5214A	4.2GB 7200 rpm UltraSCSI disk drive	19	1,050	19,950		
6600A	E450 8-bay storage expansion option	2	1,122	2,243		
9682A	E450 Power Supply	1	1,121	1,121		
6540A	Dual single-ended UltraSCSI adapter	7	563	3,938		
X5516A	MultiPacks (12 x 4 GB drives each)	9	13,350	120,150		
6286A	4mm DDS-3 tape drive	1	1,800	1,800		
Workgroup Server Subtotal:				261,981		16,170
Server and Client Software						
<i>Sun Software Pricing from Sun</i>						
SOLS-C	Solaris Software on CD-ROM	1	100	100	8	456
CC-P	SPARC Compiler Single Usr. License	1	695	695	20	1,140
EVM-2.5-B	Sun Enterprise Vol Mgr Base	1	100	100		
EVM-2.5-WS-L	Sun Enterprise Vol Mgr RTU for E450	1	2,995	2,995	82	4,674
Sun Software Subtotal:				3,890		6,270
<i>Informix Software Pricing</i>						
	Informix XPS 8.2 (40 User License)	1	85,200	85,200	94,856	94,856
ALL SOFTWARE SUBTOTALS:				89,090		101,126

TOTAL HARDWARE & SOFTWARE COST (5YR)
Qphd@100GB **468,367**
 \$/QphD@100GB **620**
 755

Ultra E450 hardware has 3-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.

Last update: Sep 18, 1997

Audited by:

François Raab, Information Paradigm, Inc.



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Numerical Quantity Summary

Measurement Results:

Database Scaling Factor (SF/Size)	= 100
Total Data Storage / Database Size	= 5.38
Database Load Time	= 17 hours 1 minute 19 seconds
Query Streams for Throughput Test	= 0
TPC-D Power Metric (QppD@100GB)	= 1069.7
TPC-D Throughput Metric (QthD@100GB)	= 359.4
Composite QphD@100GB	= 620.0
Total System Price Over 5 Years	= \$468,367
TPC-D Price/Performance Metric	= \$755

Measurement Intervals:

Measurement Interval in Throughput Test (Ts) = 17,030 seconds
Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream00	995913	Thu Sep 11 1997	09:40:28 PDT	Thu Sep 11 1997	14:24:18 PDT
UF1		Thu Sep 11 1997	09:40:28 PDT	Thu Sep 11 1997	09:57:12 PDT
UF2		Thu Sep 11 1997	14:10:16 PDT	Thu Sep 11 1997	14:24:18 PDT

TPC-D Timing Intervals (in seconds)

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
5439.3	66.0	209.1	239.6	661.2	215.5	948.7	1098.3	4263.8	469.9

Q11	Q12	Q13	Q14	Q15b	Q16	Q17a	UF1	UF2
74.6	477.3	1.5	183.5	194.9	584.3	56.8	1003.3	842.1