

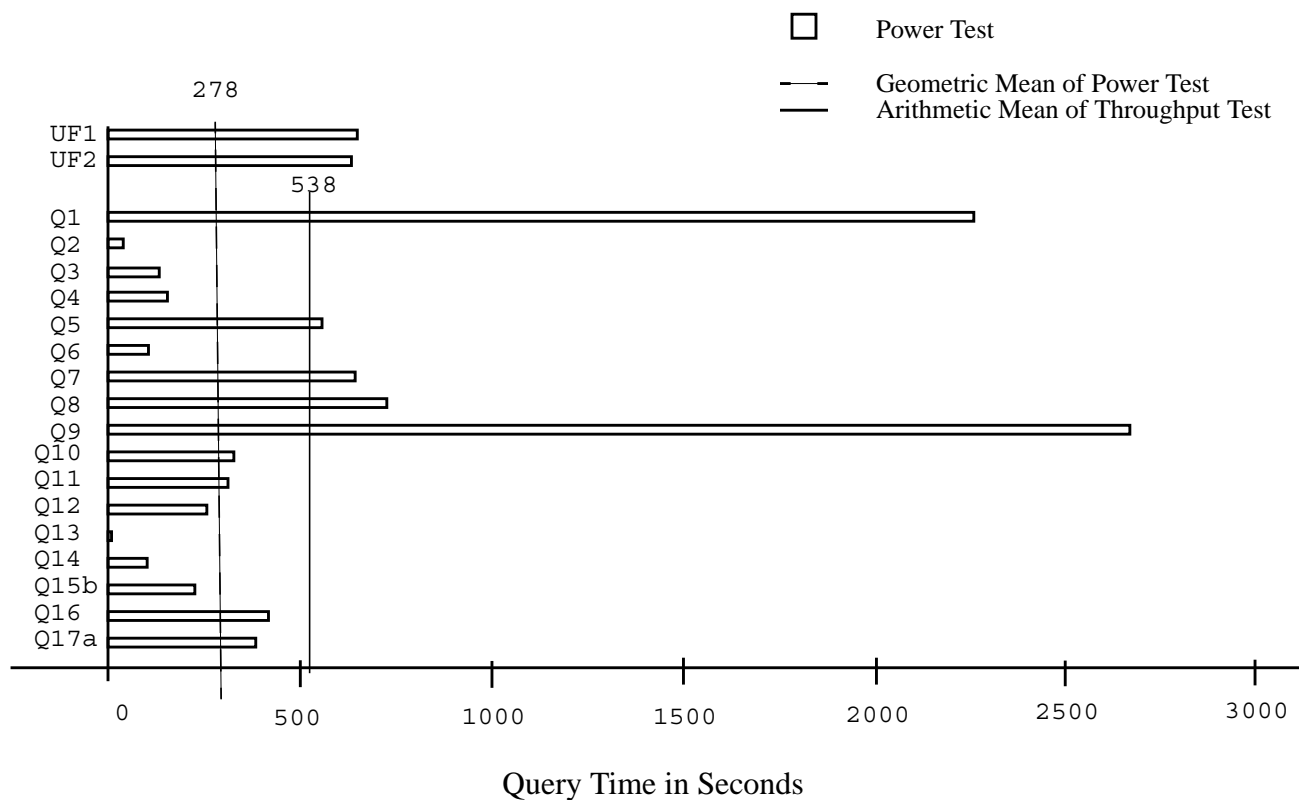


Sun Enterprise 6000 Cluster with Informix IDS AD/XP

TPC-D Rev. 1.3.1

Report Date:
February 24, 1998

Total System Cost	TPC-D Power	TPC-D Throughput	Price/Performance	
\$11,766,932	12,931.9 QppD@1000GB	5,850.3 QthD@1000GB	\$1,353 \$ per QphD@1000GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date
1,000 GB	INFORMIX Dynamic Server AD/XP 8.21	Solaris 2.6	Sun Enterprise Cluster 2.1	June 15, 1998



Database Load Time = 11 hours 55 minute 23 seconds

Disk Size/Database Size = 8.52

RAID : Y (1)

System Configuration:

Nodes: Four Sun Enterprise 6000

Processors per node: 24 336 Mhz UltraSPARC II CPUs each with 4MB E-Cache

Memory per node: 16GB

Disks per node: 2 Multipacks with 12 4.2GB disks, 16 StorEdge A5000 each with 14 9GB disks, 1 Multipacks with 6 2.1 GB disks

Total Storage per node: 2,129.4 GB



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Description	Part Number	Source	Unit Price	Qty	Disc	Ext. Price	5 Yr. Maint.
Server Hardware							
E6002A	E6002		112,500	4		450,000	595,630
CPU/Memory board	2601A		6,750	48		324,000	486,467
336MHz/4MB UltraSPARC II	2560A		14,250	96		1,368,000	
1GB memory (8 * 128MB)	7023A		12,000	64		768,000	
PS/300W for Ex000	954A		1,350	24		32,400	
SBus I/O board	2610A		5,625	16		90,000	
FCAL SBus Host adapter	6730A		2,025	32		64,800	
FCAL GBIC Module	6731AR4		450	32		14,400	
SBus SCI board	1073A		3,375	16		54,000	
SCI Cable	3825A		188	16		3,000	
SCI Switch	3876A		13,125	4		52,500	
Subtotal						3,221,100	1,082,097
Storage							
127GB StorEdge A5000 Array	SG-ARY-011A-127G		47,250	64		3,024,000	1,187,021
MultiPacks (12 * 4.2GB disks)	x5516A		12,450	8		99,600	
MultiPacks (6 * 2.1GB disks)	x5515A		6,600	4		26,400	
Subtotal						3,150,000	1,187,021
SunService Discount (10% Volume + 5% yearly prepayment)							(340,368)
Hardware Subtotal						6,371,100	1,928,750
Software							
Solaris Server Software	SOLS-C		100	1		100	
SPARC Compiler C/C++ 4.2	WCC-4.2-P		995	1		995	969
Sun Cluster Software 2.1	CLUS-2.1-E6000		24,000	4		96,000	97,920
Sun Cluster XPS for E6000	CLUS-2.1-XPS2-L		4,000	4		16,000	16,320
						0	
Informix Dynamic Server AD/XP			2,200	960		2,112,000	1,925,600
Informix license volume discount					37%	(781,440)	
Subtotal						1,443,555	2,040,809
SunService Discount (10% Volume + 5% yearly prepayment)							(17,281)
Software Subtotal						1,443,555	2,023,528
Notes:							
1. Sun Microsystems Inc.							
2. CAT Technology Inc							
3. Informix Software Inc.							
Total						7,814,655	3,952,277
Service for all hardware and software (except for Informix						5Yr. cost	\$11,766,932
Server) is from Sun Microsystems Inc.						QphD@1TB	8,698
						\$/QphD@1TB	\$1,353

Audited by: François Raab, Information Paradigm, Inc.

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the standard components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchase 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.



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Informix IDS AD/XP**

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Numerical Quantity Summary

Measurement Results:

Database Scaling Factor (SF/Size)	= 1,000 GB
Total Data Storage / Database Size	= 8.52
Database Load Time	= 11 hours 55 minute 23 seconds
Query Streams for Throughput Test	= 0
TPC-D Power Metric (QppD@1000GB)	= 12,931.9
TPC-D Throughput Metric (QthD@1000GB)	= 5,850.3
Composite QphD@1000GB	= 8,698
Total System Price Over 5 Years	= \$11,766,932
TPC-D Price/Performance Metric	= \$1,353

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)	= 10,461 seconds
Duration of Stream Execution:	

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream00	2191998	Thu Feb 19 1998	14:18:28 PST	Thu Feb 19 1998	17:12:49 PST
UF1		Thu Feb 19 1998	14:18:28 PST	Thu Feb 19 1998	14:29:29 PST
UF2		Thu Feb 19 1998	17:01:56 PST	Thu Feb 19 1998	17:12:49 PST

TPC-D Timing Intervals (in seconds)

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2256.9	49.5	133.1	162.5	561.5	102.7	647.3	690.0	2661.4	304.5

Q11	Q12	Q13	Q14	Q15b	Q16	Q17a	UF1	UF2
298.0	257.0	6.8	96.6	197.1	374.2	347.1	661.0	653.7