
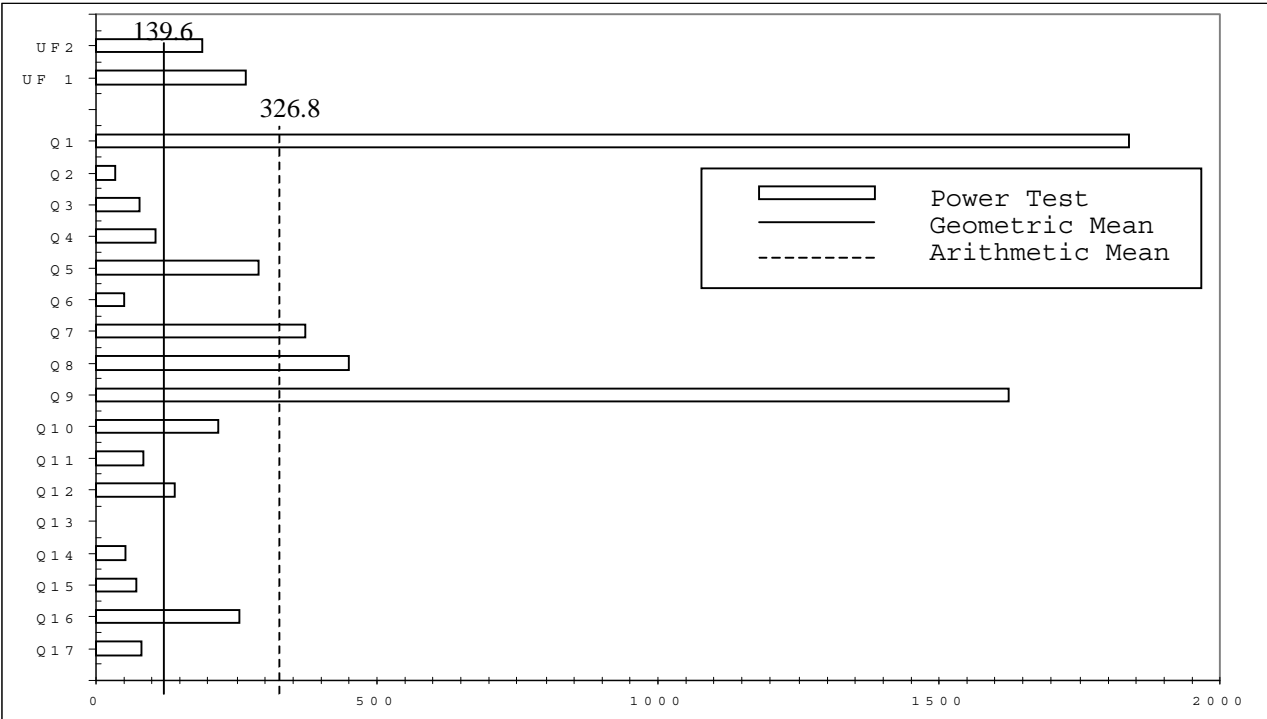


Executive Summary

		NUMA-Q 2000 using Informix IDS/AD/XP		TPC-D™ 1.3.1	
		REPORT DATE: October 5th 1998			
TOTAL SYSTEM COST		TPC-D POWER		TPC-D THROUGHPUT	
\$3,595,179		7,734.4 <i>QppD@300GB</i>		3,055.4 <i>QthD@300GB</i>	
		PRICE/PERFORMANCE			
		\$740 <i>\$/QphD@300GB</i>			
DATABASE SIZE		DATABASE MANAGER		OPERATING SYSTEM	
300GB		Informix IDS/AD/XP 8.21.UD2		DYNIX/ptx 4.4.4	
		OTHER SOFTWARE		AVAILABILITY DATE	
		Sequent Volume Manager (SVM) 2.1.1		March 15th 1999	
					
DATABASE LOAD TIME = 7 HOURS, 14 MINUTES, 10 SECONDS		DISK SIZE/DATABASE SIZE =7.63		Raid: Y (1)	
SYSTEM CONFIGURATION <ul style="list-style-type: none"> • 32 405Mhz Intel Xeon Processors with 2MB Cache • 32GB Memory • 1 Ethernet Controller • 256 9GB CLARiiON DAE Disk Drives (8.486 storage capacity) • 7 18GB Disk Drives (17.09 storage capacity) • Total GB of Storage =2290.386GB 					



**NUMA-Q 2000
using Informix
IDS/AD/XP**

TPC-D™ 1.3.1
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Description	Part Number	Source	Reference Price	QTY	Disc	Extended Price	Maint. Cost
Console							
NUMA-Q 200 Console	CON-0000	1	6,500	1		6,500	
Server Hardware							
Enterprise NUMA Cabinet	CABE-0000-00	1	6,500	2		13,000	
Boot PBAY	EXP-PBAY-04	1	3,900	1		3,900	
18GB Disks	DSK-1800-00	1	2,600	7		18,200	
SCSI PBAY Cable	CBL-0300-RL	1	59	1		59	
XEON Quad with IQ LINK 405MHz, 2MB Cache	QUAD-0301	1	159,250	8		1,274,000	
IQ PLUS Interconnect cable	CBL-PLUS-03	1	455	8		3,640	
8GB Add-On memory for Xeon Quad	MEM-8100-00	1	127,400	3		382,200	
Single Port Ethernet Adapter	COM-0041-50	1	650	1		650	
Fiber Channel Host Adapter	IOC-0210-54	1	715	32		22,880	
CD-ROM	CDR-0004-01	1	2,080	1		2,080	
PCI SCSI Controller for Boot PBAY	IOC-0120-51	1	715	1		715	
Storage Subsystem							
64 disk, CLARiiON DAE storage unit including cabinet, 8 DAE's, each with 8 9GB disks	F-000-99	1	119,000	4		476,000	
20 Meter FC Cable	CBL-2000-F2	1	156	32		4,992	
Server Hardware Total						2,202,316	440,463*
Server Software							
Dynix/ptx V4.4.4 CD-ROM Media (NAO), includes ptx/TPC-IP, ptx/LAN, ptx/SYNC, ptx/WINDOWS	PTX-C444-00	1				0	
Sequent Volume Manager (svm) for Base Quad	SVM-4100-001	1	3,750	1		3,750	
Sequent Volume Manager for Additional Quads	SVM-4100-ADD		3,750	7		26,250	
Ptx/EFS	EFS-0000-00	1	2,000	1		2,000	
Server Software Total						32,000	6,400*
Informix Server License		1				422,400	491,600
Total						2,656,716	869,263
5 Year Cost of ownership						\$3,595,179	
QphD@300GB						4,861.3	
\$/QphD@300GB						\$740	

* Includes 1 year warranty and annual pre-pay discount

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.



**NUMA-Q 2000
using Informix
IDS AD/XP**

TPC-D™ 1.3.1

Report Date:
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Measurement Results:

Database Scaling (SF/Size)	=	300
Total Data Storage/Database Size	=	7.63
Database Load Time	=	7 Hours, 14 Minutes, 10 Seconds
Query Streams for Throughput Test (S)	=	0
TPC-D Power Metric (QppD@300GB)	=	7,734.4
TPC-D Throughput Metric (QthD@300GB)	=	3,055.4
Composite (QphD@300GB)	=	4,861.3
Total System Price Over five years	=	\$3,595,179
TPC-D Price/Performance Metric (\$/QphD@300GB)	=	\$740

Measurement Intervals:

Measurement interval in Performance Test (TS)	6,009 seconds
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Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time	Total Time
Stream 00	0930054041	9/30/98	05:45:23	09/30/98	07:25:32	01:40:09
UF1		9/30/98	05:45:23	09/30/98	05:49:46	00:04:23
UF2		9/30/98	07:22:21	09/30/98	07:25:32	00:03:11

TPC-D Timing Intervals (in seconds):

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9
1675.3	33.6	75.5	101.9	293.0	51.4	366.4	440.5	1572.5

Q10	Q11	Q12	Q13	Q14	Q15b	Q16	Q17a	UF1	UF2
213.6	82.3	197.1	2.9	49.9	68.9	251.3	78.8	262.7	191.2