



Aquanta XS/6 12x

TPC-D Rev. 1.3.1

Report Date: 29 May 1998

Total System Cost
\$659,461

TPC-D Power
1324.0 QppD @ 100 GB

TPC-D Throughput
512.5 QthD @ 100 GB

Price / Performance
801 \$ / QphD @ 100 GB

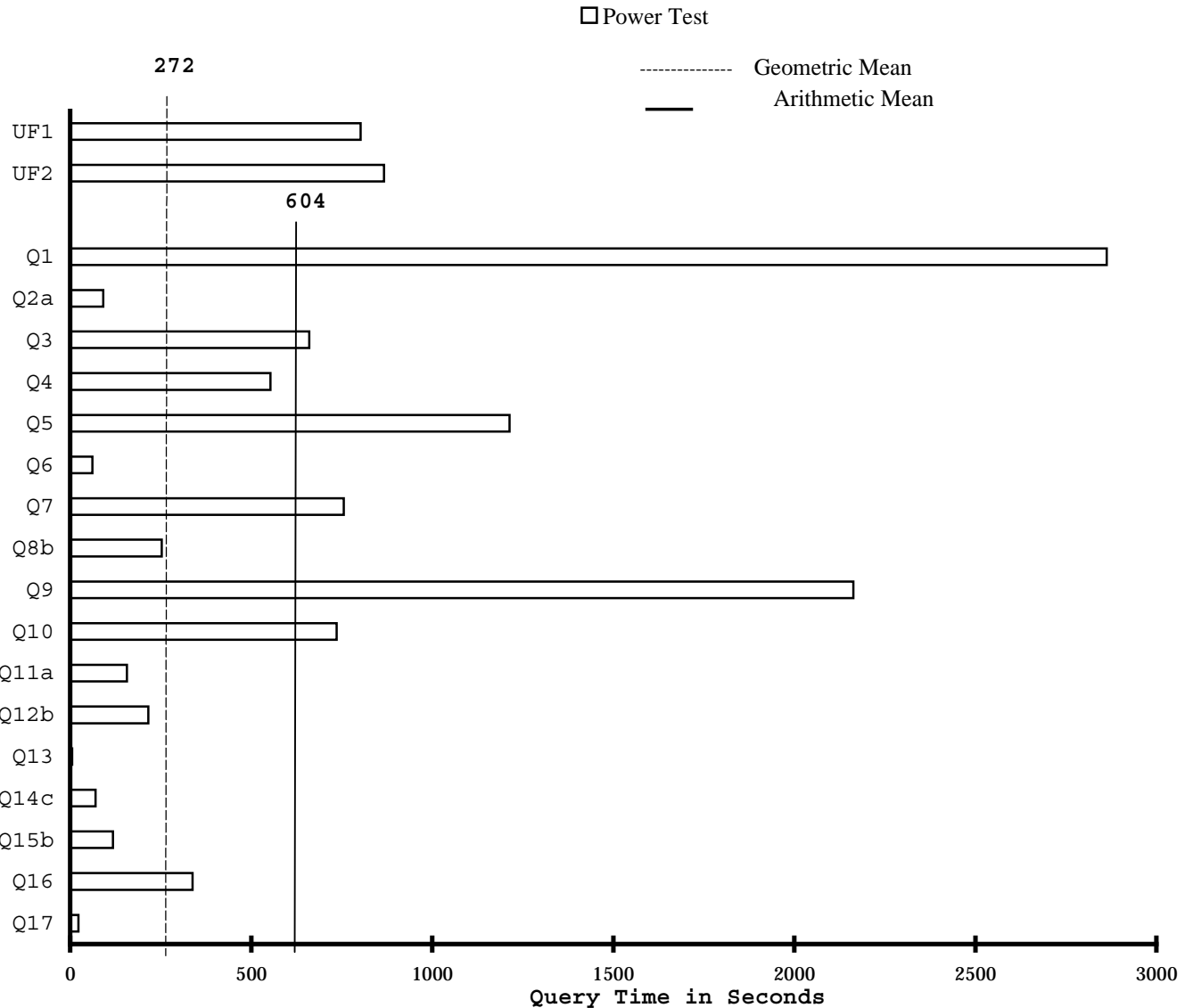
Database Size
100 Gigabytes

Database Manager
Oracle 8.0.4 for NT 4.0

Operating System
Microsoft NT 4.0 Enterprise Server SP3

Other Software
**Visual C++
MKS Toolkit**

Availability Date
1 Jun 1998



Database Load Time = 25:22:16

Total Data Storage / Database Size = 4.25

RAID = N

System Components

Number of nodes 1
Processors 12 Pentium Pro @ 200MHz
Memory 3 GB
Disk Drives 45 x 8.9 GB and 6 x 4.0 GB
Controllers 4 Emulex LP7000-T1 PCI cards and 1 SCSI differential PCI card
Total Disk Storage 425 GB
Network Interface 1 Network Interface Card
Tape Drives 1 QIC drive
CD Rom 1 12x CD Rom Drive



Aquanta XS/6 12x

TPC-D Rev. 1.3.1

Measured and Priced Configuration

Report Date: 29 May 1998

XS/6 Configuration for TPCD 100GB			Reference			Extended		Maint.					
Server Hardware	Style number	Source	Price	Qty	Disc.	Price	Cost						
Aquanta XS/6 Base System	STS6200151-NT	1	\$20,800	1		\$20,800	\$4,008						
1.44MB Floppy drive	UN6003-3FD	1	included	1									
Video Controller	SFV61000-PCI	1	included	1									
Mouse: 2 button Mouse/PS2	PWM1-PS2	1	included	1									
Power Cord: Domestic 220VAC	USE1936-LC4	1	included	2									
200MHz dual processor board w/Ppro 200MHz IPs	ST6200-512	1	\$10,950	6		\$65,700	\$11,808						
ECC Memory board + 1024 MB memory	UN611024-MB2	1	\$14,900	1		\$14,900	\$2,880						
1024 MB ECC Memory upgrade	UN611024-MU2	1	\$11,900	2		\$23,800	\$1,584						
Redundant Cooling	SMP61000-RCO	1	\$598	1		\$598	\$72						
Redundant Power Supply	SF1400-HSR	1	\$4,900	1		\$4,900	\$600						
Disk: Dev. cage 4.2GB SP	OSD4102-W42	1	\$1,656	6		\$9,936	\$4,320						
INSTL: Disk Install Kit	UN6030-DIK	1	\$75	2		\$150	\$0						
Cable: SCSI Wide 3M	CBL6016-M3	1	\$112	1		\$112	\$0						
Cable: SCSI Wide Narrow 1	CBL6016-WN1	1	\$124	1		\$124	\$0						
Power: 1400W upgrade	SF1400-WUP	1	\$4,200	1		\$4,200	\$552						
Adapter: RAID Host, PCI	SF1000-RHA	1	\$2,450	1		\$2,450	\$504						
Adapter: PCI,1 Chan SE/Wide	SFA10201-SSW	1	\$375	1		\$375	\$48						
Adapter: PCI,1 Chan DE/Wide	SFA10201-SDW	1	\$575	1		\$575	\$72						
TAPE: QIC 1.0 GB	UN6000-Q10	1	\$810	1		\$810	\$384						
CD-ROM 12x	SFD1012-CDI	1	\$275	1		\$275	\$72						
CTL: PCI Fast Ethernet	SF1001-FET	1	\$290	1		\$290	\$48						
System console (15" monitor)	EVG2000-P	1	\$377	1		\$377	\$0						
Keyboard: space saver	PCK104-SKB	1	\$34	1		\$34	\$0						
Mouse Driver	NTS40-DRV	1	\$34	1		\$34	\$0						
Power Cord: Line cord	B25-LC	1	\$1	1		\$1	\$0						
Subtotal:						\$150,441	\$26,952						
Storage													
Cabinet	USE3600-II	1	\$3,000	1		\$3,000							
Power Cord, Rack Mount cabinet	USE1936-LC1	1	\$80	1		\$80							
Emulex Light Pulse PCI interface card	[LP7000-T1]	2	\$1,200	6		\$7,200	spared						
Power	USR31000-PDU	1	\$2,600	1		\$2,600							
FC Data DOD W/Loop Resil. (dual loop, 1 pwr. s.)	OSM3000-FLR	1	\$1,500	7		\$10,500							
9GB UF 3.5" disk drive (2200)	OSD9101-F65	1	\$2,000	50		\$100,000	spared						
UPG USE Cab. mounting kit	OSM3000-RMK	1	\$150	7		\$1,050							
OSM IEC 320 Power Cable	OSM1000-PRC	1	incl	7		\$0							
2 meter (copper loop) fibre cable	CBL135-2	1	\$120	7		\$840							
Subtotal:						\$125,270	\$0						
Hardware Subtotal:						\$275,711	\$26,952						
Server Software													
Windows NT 4.0 Enterprise Server Unlimited	NTS4016L	1	\$5,000	1		\$5,000							
Oracle 8.0 License for 12 CPU Server	N/A	3	\$150,480	1		\$150,480							
Oracle Silver Support for five years	N/A	3					\$199,920						
Win 4.0 NT Res. Kit	N/A	4	\$499	1		\$499							
MKS Toolkit for NT	N/A	4	\$399	1		\$399							
MS Visual C++ v. 5.0	N/A	4	\$500	1		\$500							
Subtotal:						\$156,878	\$199,920						
Sources:						Configuration total:	\$432,589	\$226,872					
1. Unisys Price Book						<table border="1"> <tr> <td>5 Year Cost of Ownership</td> <td>\$659,461</td> </tr> <tr> <td>QphD @ 100GB</td> <td>823.7</td> </tr> <tr> <td>\$/QphD@100GB</td> <td>\$801</td> </tr> </table>	5 Year Cost of Ownership	\$659,461	QphD @ 100GB	823.7	\$/QphD@100GB	\$801	
5 Year Cost of Ownership	\$659,461												
QphD @ 100GB	823.7												
\$/QphD@100GB	\$801												
2. Emulex quote (attached)													
3. Oracle quote (attached)													
4. General over-the-counter price													

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 base 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 section 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.



Aquanta XS/6 12x

TPC-D Rev. 1.3.1

Numerical Quantities Summary

Report Date: 29 May 1998

Measurement Results

Scale Factor	=	100
Total Data Storage / Database Size	=	4.25
Database Load Time	=	25:22:16
Query Streams for Throughput Test	=	1
TPC-D Power Metric (QppD@100GB)	=	1324.0
TPC-D Throughput Metric (QthD@100GB)	=	512.5
Composite QphD@100GB	=	823.7
Total System Price Over 5 Years	=	\$659,461
TPC_D Price Performance Metric	=	\$801

Measurement Intervals

Measurement Interval in Throughput Test (Ts) = 11942 seconds

Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream 00	1970428687	5/25/98	1:18:29	5/25/98	4:09:41
UF1		5/25/98	1:05:06	5/25/98	1:18:27
UF2		5/25/98	4:09:42	5/25/98	4:24:08

TPC-D Timing Intervals in Seconds

Q1	Q2a	Q3	Q4	Q5	Q6	Q7	Q8b
2862.0	91.2	660.5	552.7	1213.4	61.4	754.8	252.8
Q9	Q10	Q11a	Q12b	Q13	Q14c	Q15b	Q16
2162.4	735.6	156.4	215.1	5.7	70.3	118.1	337.6
Q17	UF1	UF2					
22.3	801.7	866.3					