



# Aquanta XS/6 10x

TPC-D Rev. 1.3.1

Report Date: 9 Mar 1998  
(Repriced 5/29/98)

Total System Cost  
**\$589,953**

TPC-D Power  
**1200.9 QppD @ 100 GB**

TPC-D Throughput  
**472.0 QthD @ 100 GB**

Price / Performance  
**784 \$ / QphD @ 100 GB**

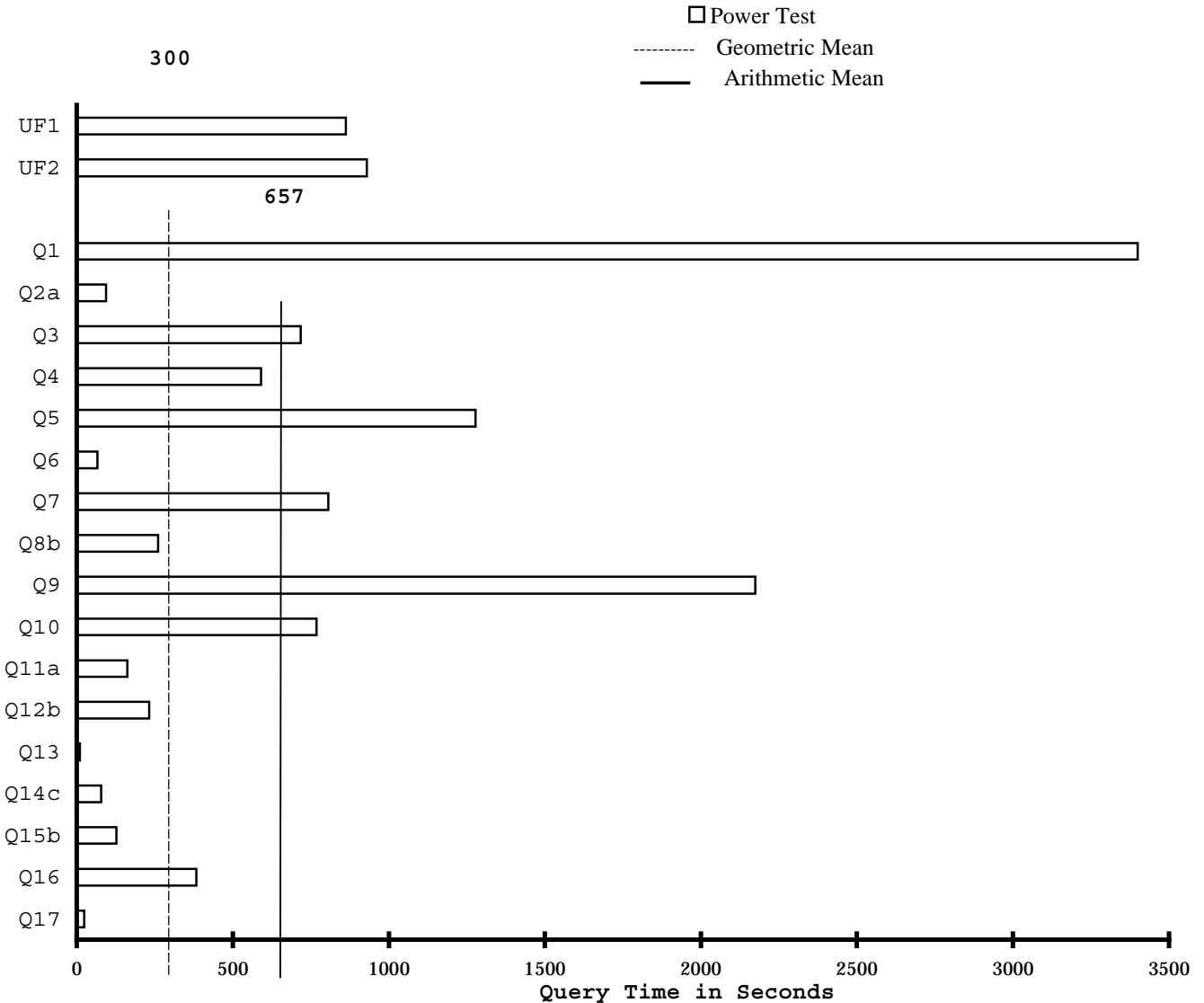
Database Size  
**100 Gigabytes**

Database Manager  
**Oracle 8.0.4**

Operating System  
**Microsoft NT 4.0 Enterprise Server SP3**

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

Availability Date  
**30 Apr 1998**



Database Load Time = 26:51:52

Total Data Storage / Database Size = 4.25

RAID = N

### System Components

Number of nodes	1
Processors	10 Pentium Pro @ 200MHz
Memory	3 GB
Disk Drives	45 x 8.9 GB and 6 x 4.0 GB
Controllers	5 Emulex LP6502-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



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## Measured and Priced Configuration

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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						
200MHz dual processor board w/Ppro 200MHz IPs	ST6200-512	1	\$10,950	5		\$54,750	\$9,840						
1024 MB ECC Memory board	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						
1.44MB Floppy drive	UN6003-3FD	1	\$0	1		\$0	\$0						
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						
Video Controller	SFV61000-PCI	1	included	1									
System console (15" monitor)	EVG153-COL	1	\$487	1		\$487	\$0						
Keyboard: space saver	PCK104-SKB	1	\$34	1		\$34	\$0						
Mouse: 2 button Mouse/PS2	PWM1-PS2	1	included	1									
Mouse Driver	NTS40-DRV	1	\$34	1		\$34	\$0						
Power Cord: Line cord	B25-LC	1	\$1	1		\$1	\$0						
Power Cord: Domestic 220VAC	USE1936-LC4	1	included	2									
<b>Subtotal:</b>						<b>\$139,601</b>	<b>\$24,984</b>						
<b>Storage</b>													
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	[LP6502-T1]	2	\$1,200	7		\$8,400	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							
<b>Subtotal:</b>						<b>\$126,470</b>	<b>\$0</b>						
<b>Hardware Subtotal:</b>						<b>\$266,071</b>	<b>\$24,984</b>						
<b>Server Software</b>													
Windows NT 4.0 Enterprise Server Unlimited	NTS4016L	1	\$5,500	1		\$5,500							
Oracle 8.0 License for 10 CPU Server	N/A	3	\$125,400	1		\$125,400							
Oracle Silver Support for five years	N/A	3					\$166,600						
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							
<b>Subtotal:</b>						<b>\$132,298</b>	<b>\$166,600</b>						
<b>Sources:</b>						<b>Configuration total:</b>	<b>\$398,369</b>	<b>\$191,584</b>					
1. Unisys Price Book						<table border="1"> <tr> <td><b>5 Year Cost of Ownership</b></td> <td><b>\$589,953</b></td> </tr> <tr> <td><b>QpdD @ 100GB</b></td> <td><b>752.8</b></td> </tr> <tr> <td><b>\$/QphD@100GB</b></td> <td><b>\$784</b></td> </tr> </table>		<b>5 Year Cost of Ownership</b>	<b>\$589,953</b>	<b>QpdD @ 100GB</b>	<b>752.8</b>	<b>\$/QphD@100GB</b>	<b>\$784</b>
<b>5 Year Cost of Ownership</b>	<b>\$589,953</b>												
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<b>\$/QphD@100GB</b>	<b>\$784</b>												
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.



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## Numerical Quantities Summary

Report Date: 9 Mar 1998  
(Repriced 5/29/98)

### Measurement Results

Scale Factor	=	100
Total Data Storage / Database Size	=	4.25
Database Load Time	=	26:51:52
Query Streams for Throughput Test	=	1
TPC-D Power Metric (QppD@100GB)	=	1200.9
TPC-D Throughput Metric (QthD@100GB)	=	472.0
Composite QphD@100GB	=	752.8
Total System Price Over 5 Years	=	\$589,953
TPC_D Price Performance Metric	=	\$784

### Measurement Intervals

Measurement Interval in Throughput Test (Ts) = 12967 seconds

Duration of Stream Execution:

Stream ID	Seed	Start Date	Start Time	End Date	End Time
Stream 00	590059879	3/1/98	10:31:16	3/1/98	13:37:19
UF1		3/1/98	10:16:51	3/1/98	10:31:16
UF2		3/1/98	13:37:20	3/1/98	13:52:50

### TPC-D Timing Intervals in Seconds

<b>Q1</b>	<b>Q2a</b>	<b>Q3</b>	<b>Q4</b>	<b>Q5</b>	<b>Q6</b>	<b>Q7</b>	<b>Q8b</b>
3399.9	93.3	717.3	590.2	1277.7	66.7	805.8	260.3
<b>Q9</b>	<b>Q10</b>	<b>Q11a</b>	<b>Q12b</b>	<b>Q13</b>	<b>Q14c</b>	<b>Q15b</b>	<b>Q16</b>
2174.2	767.6	161.7	232.3	10.2	78.2	126.6	384.0
<b>Q17</b>	<b>UF1</b>	<b>UF2</b>					
24.5	862.7	929.4					