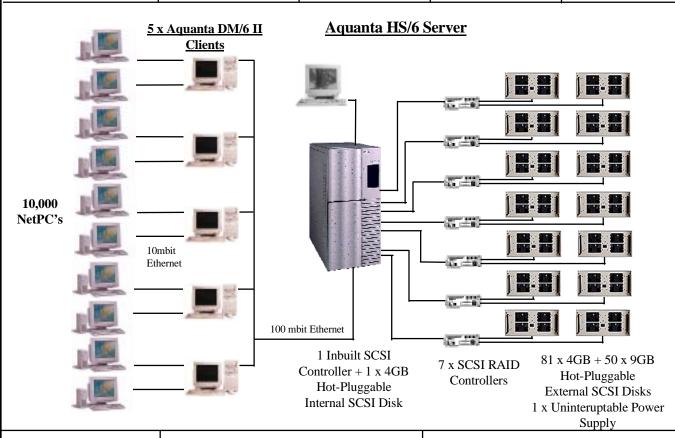
UNISYS	Aqua	TPC-C Rev. 3.3 Report Date: 18-Aug-1997			
Total System Cost	TPC-C Throughp	ut Price/Performance			Availability Date
\$473,567	12,026.07 tp	mC \$39.38 per tpmC		30-Nov-1997	
Processors	Database Manager	Operating System		Other Software	Number of Users
6 Pentium [®] Pro 200 MHz 1MB L2 cache	Microsoft SQL Server 6.5 Enterprise Edition	Microsoft NT Server 4.0 Enterprise Edition		Microsoft IIS. Tuxedo 6.3 CFS	10,000



System Components		Server	Clients	
	Quantity	Туре	Quantity	Туре
Processors	6	200 MHz Pentium [®] Pro with 1MB Level 2 Cache	5	200MHz Pentium® Pro with 256KB Level 2 Cache
Memory	1	4096MB	5	256MB
Disk Controllers	7 1	SCSI RAID Inbuilt SCSI	5	Inbuilt IDE
Disk Drives	82 50	4GB 9GB	5	1.5GB
Total Storage		756.2 GB		7.5GB
CD-ROM / Tape	1	CD-ROM Drive	5	CD-ROM Drive

Unisys Corporation			-	uanta HS ient/Serve			TPC-C Rev 3.3
		Third Down		Unit		Extended	18-Aug-1997
Description	Style	Third Party Brand Price		Price	Qty.	Price	5 Yea Maii
Server Hardware	o.y.o		J9	11100	ч.у.	11100	TVICE:
SYS: Aquanta HS/6, w/ CDRom, 0 Proc, 0MB Mem	HS6000121-BAS		1	\$11,839	1	\$11,839	\$1,00
PROC:3x200MHz PentiumPro/1MB Cache	HX36210-CPU		1	\$8,976	2	\$17,952	\$3,98
CTRL: 3-CPU Riser Card	HX62-3CP		1	\$300	1	\$300	\$7
MEM:ECC Memory Board, 0MB Mem	MEM641-DIM		1	\$348	1	\$348	\$9
MEM:256 MB Memory Upgrade	DIM672-256		1	\$3,210	16	\$51,360	\$3,0
CTRL:RAID Tri-SCSI-2 Ultra PCI	RAD3162-PCI		1	\$1,304	7	\$9,128	\$3,36
CTRL: VGA, 16-bit ISA	VID11-ISA		1	\$91	1	\$91	
ETHERNET: 100Mbit/sec, PCI 32-bit	SF1001-FET		1	\$170	1	\$170	\$4
ACC: 6 SCA Drive Cage	CAG61-ADV		1	\$374	1	\$374	\$12
DRW: Disk Drive Drawer, w/ cables, 7U	P/N 11910190	ALR	2	\$1,795	16	\$28,720	\$6,89
DISK: 4GB Drive + 10% spares	HDS4000-WC7		1	\$813	91	\$73,983	spare
DISK: 9GB Drive + 10% spares	HDS9000-WC7		1	\$1,391	55	\$76,505	spare
MONITOR: 14-inch Color	EVG142-COL		1	\$210	1	\$210	
KEYBD: 104 Key Spacesaver	PCK104-SKB		1	\$29	1	\$29	
MOUSE: 2 Button PS2	PWM1-PS2		1	\$21	1	\$21	
PWR: 2200VA UPS, 4U	UPD22001-SXR		1	\$2,380	1	\$2,380	\$62
CAB: Rack Cabinet, w/ fill pnls, 36U	CAB361-SXR		1	\$1,310	3	\$3,930	
CAB: Link kit for 36U cabinets	LNK361-SXR		1	\$218	2	\$436	
CAB: Bezel kit 36U	BEZ3611-CAB		1	\$144	3	\$432	
CAB: Stabilizer kit OU	WGT39581-SXR		1	\$103	3	\$309	
PNL: L&R side panels 36U	PAN3621-SXR		1	\$182	1	\$182	
·					Subtotal	\$278,699	\$19,28
Server Software							
Microsoft NT Server 4.0 Enterprise Edition, incl 25 CALs		Microsoft	3	\$3,999	1	\$3,999	5
Microsoft SQL Server 6.5 Enterprise Edition, incl 25 CALs		Microsoft	3	\$28,999	1	\$28,999	\$10,47
					Subtotal	\$32,998	\$10,47
Client Hardware							
SYS: Aquanta DM/6 II, 0 Proc, 0MB Mem	CMT60072-ZFA		1	\$789	5	\$3,945	\$2,16
PROC:1x200MHz PentiumPro/256KB Cache	PRC6200-256		1	\$639	5	\$3,195	
MEM: 64 MB Memory Upgrade	MTP6-64M		1	\$542	20	\$10,840	\$3,36
CTRL: VGA, 64-bit with 2MB	PCV102-PCI		1	\$105	5	\$525	
DISK: 1.6GB IDE 3.5 Internal	HDI1600-5		1	\$200	5	\$1,000	\$60
CDROM: Twelve Speed IDE	CDR1200-Al		1	\$108	5	\$540	\$60
ETHERNET: 100Mbit/sec, PCl 32-bit	ETH101007-PCI		1	\$103	5	\$515	
ETHERNET: 10Mbit/sec, PCI 32-bit	ETH101-PCI		1	\$113	10	\$1,130	
MONITOR:14-inch Color	EVG142-COL		1	\$210	5	\$1,050	
KEYBD: 104 Key Spacesaver	PCK104-SKB		1	\$29	5	\$145	
MOUSE: 2 Button PS2	PWM1-PS2		1	\$21	5	\$105	
					Subtotal	\$22,990	\$6,72
Client Software							
Microsoft Windows NT Server 4.0, ind 5 CALs		Microsoft	3	\$809	5	\$4,045	\$
Microsoft SQL Workstation w/ Programmer's Toolkit		Microsoft	3	\$499	1	\$499	9
Microsoft Visual C++ 32-bit edition (subscription)		Microsoft	3	\$499	1	\$499	9
TUXEDO Core Functional Services 6.3 for NT		BEA	4	\$3,000	5	\$15,000	\$11,25
				•	Subtotal	\$20,043	\$11,25
User Connectivity						-	•
Ethernet Hub, 8-Port 100TX TrueFast + 10% spares	NX-H8TX	Netlux	5	\$329	3	\$987	spare
Ethernet Hub, 8-Port 10Base-T + 1-Port BNC + 10% spares	NX-H9+	Netlux	5	\$51	1375	\$70,125	spare
				*	Subtotal	\$71,112	<u> </u>
					Total	\$425,842	\$47,72
			-				
Notes:	t costs. The next 24	othe					
HW Maintenance - 1st 36 months included in Unisys product	i wasa. The next 24 mo	i iii b		ivo Voor f	Cost of Ow	norshin	\$473,56
			- 16	ive real (ייים ווו ורגע	KI SHIU	54/3.5 (
are at the level: Standard Performance-Gold.						р	
are at the lever: Standard Perromance-Gold. 2. All Microsoft maintenance is covered by the maintenance co 3. 10% or minimum 2 spares are added in place of onsite servi			1	PC-C Thr tpmC		р	12,026.0 \$39.

4. Pricing: 1 = Western Micro, 2= ALR, 3 = Microsoft, 4 = BEA, 5 = Netlux

The benchmark results and test methodology were audited by Richard Gimarc of Performance Metrics, Inc.

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 assumption 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 benchmarks specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org.

NUMERICAL QUANTITIES SUMMARY Unisys Aquanta HS/6 Server

Microsoft SQL Server 6.5 Enterprise Edition

MQTh, Computed Maximum Qualified Throughput:

12026.07

% throughput difference, reported & reproducibility runs:

0.87%

Transaction Mix

New Order	44.72%
Payment	43.09%
Delivery	4.08%
Stock-Level	4.03%
Order-Status	4.08%

Response Times

Transaction	Average	Maximum	90th %ile	
New-Order	0.83	23.75	1.14	
Payment	0.92	23.03	1.10	
Delivery	0.47	8.41	0.70	
Stock-Level	2.58	25.94	4.29	
Order Status	1.35	26.21	1.95	
Menu	0.20	1.41	0.30	
Delivery (Deferred)	0.77	14.77	0.99	

Response time delay added for emulated components (seconds)

RT Response time	0.1
Menu Response time	0.1

Keying/Think Time Times (seconds)

Transaction	Minimum	Average	Maximum
New-Order	18.00/0	18.01/12.23	19.16/120
Payment	3.00/0	3.01/12.23	4.12/120
Delivery	2.00/0	2/5.11	3.01/50
Stock-Level	2.00/0	2/5.08	3.11/50
Order-Status	2.00/0	2/10.22	3.13/100

Test Duration

Ramp up time	35 minutes
Measurement interval (M)	30 minutes
Transactions (all types) completed during measurement interval	806706
Ramp-down time	13 minutes

Checkpointing:

Number of checkpoints	1
Checkpoint interval	30 minutes