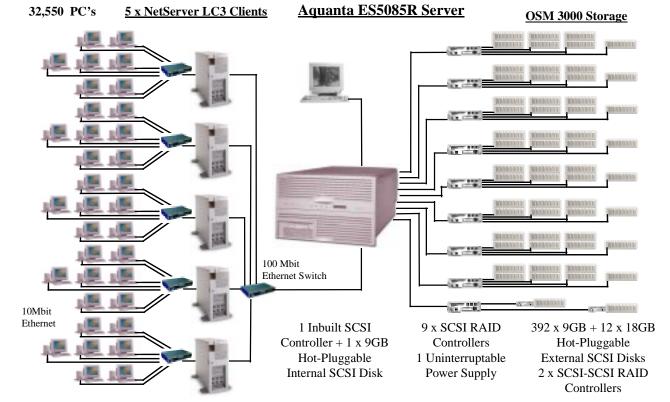
UNİSYS	Aquanta ES5085R Server (8P 550MHz/2MB)				TPC-C Rev. 3.5 Report Date: 11-Oct-1999
Total System Cost	TPC-C Throughput	Price/Performance			Availability Date
\$749,208	40,670.05 tpn	nC \$18.42 per tpmC		12 per tpmC	31-Dec-1999 *
Processors	Database Manager	Operating System		Other Software	Number of Users
8 Pentium® III Xeon 550 MHz 2MB L2 cache	Microsoft SQL Server Enterprise Edition 7.0	Microsoft NT Server 4.0 Enterprise Edition		Windows 2000 Server, IIS 5.0 and COM+	32,550



S	Server		Clients		
System Components	Quantity	Туре	Quantity	Туре	
Processors	8	550 MHz Pentium [®] III Xeon with 2MB Level 2 Cache	5	1 x 500MHz Pentium® III with 512KB Level 2 Cache	
Memory	1	4096MB	5	384MB	
Disk Controllers	9 + 2 1	SCSI RAID Inbuilt SCSI	5	Inbuilt SCSI	
Disk Drives	1 392 12	8.50 GB (boot drive) 8.54 GB 17.09 GB	5	3.97 GB	
Total Storage		3561.99 GB		19.85 GB	
CD-ROM / Tape	1	SCSI CD-ROM Drive	5	CD-ROM Drive	
	•		* All Hardwa	are Components Are Available Now	

UNISYS	Aquanta (8F	а ES50 Р 550МН		erver			TPC-C Rev 3.5
	,	Third	Party	Unit		Extended	5 Yea
Description	Style	Brand	Pricing	Price	Qty.	Price	Mair
Server Hardware							^-
SYS: Aquanta ES5085R, w/ CDRom, 0 Proc, 0MB Mem	ESR508151-GZN		1	\$18,196	1	\$18,196	\$5,13
PROC: 550MHz Pentium III Xeon /2MB Cache & VRMs	XEO3550-2MB		1	\$5,893	8	\$47,144	\$13,24
BRD: Processor Mezzanine Board, 0 Proc.	ESR81-MEZ		1	\$1,179	1	\$1,179	\$31
MEM: 128 MB Memory, SDRAM, Buf 6ns	DIM6168-128		1	\$442	32	\$14,144	\$7,68
BRD: Memory Carrier Board, 0 Mem.	ESR81-MCB		1	\$737	1	\$737	\$19
MEM: Cache Coherency Filter, 4x SRAM	ESR81-CC4		1	\$921	2	\$1,842	\$48
DISK: 9GB, 10K SCSI LVD, SCA	HDL91102-CX1		1	\$516	1	\$516	\$24
ETHERNET: 10/100Mbit/sec, PCI 32-bit	ETH1010052-PCI		1	\$100	1	\$100	
SYS MGT: ES5080 Value Add Software	ESS508011-N		1	\$368	1	\$368	\$16
MONITOR: 15-inch Color	EVG2100-P		1	\$221	1	\$221	
KEYBD: 104 Key Spacesaver	PCK104-SKB		1	\$26	1	\$26	
MOUSE: 2 Button PS2	PWM1-PS2		1	\$15	1	\$15	
CTRL: MegaRAID, 4-Ch w/ 64MB Mem +10% spares	Enter. 1500-H	AMI	2	\$2,200	11	\$24,200	\$66
			_		Subtotal —	\$108,688	\$28,1
Storage Hardware						ψ100,000	\$20,1
DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% spares	OSD9205-W45		1	\$618	432	\$266,976	Spare
DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% spares	OSD9205-W45 OSD18205-W45		1	\$1,153	432 14	\$16,142	Spare
· · · · · · · · · · · · · · · · · · ·			1	\$2,118	56		•
CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3U	OSM310300-L05			. ,		\$118,608	\$53,76
ACC: Deskside Pedestal	OSM3000-DSK		1	\$26	56	\$1,456	
CBL: SCSI 68-pin VHD Conn's, 5 meter	CBL134-5		1	\$142	34	\$4,828	
CBL: SCSI 68-pin VHD Conn's, 0.5 meter	CBL134-CAT		1	\$69	24	\$1,656	
CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3U	OSM311000-LR		1	\$4,191	2	\$8,382	\$4,24
MEM: 32MB OSM cache	OSM1032-MEM		1	\$187	2	\$374	\$2
PWR: 2nd Power Supply Upgrade, OSM	OSM3000-BPF		1	\$392	2	\$784	\$26
PWR:3000 VA UPS, 3U	UPD30001-SXR		1	\$1,897	1	\$1,897	\$93
PWR: Distribution Kit, 220V	SFR220-PWR		1	\$42	3	\$126	
CAB: Rackmount Kit for Disk Cages	OSM3000-RMK		1	\$97	3	\$291	
CAB: 36U x 19" x 34" Cabinet, Open	RM361934-OFT		1	\$884	1	\$884	
DOOR: 36U x 19", Rear	RM3619-RDR		1	\$277	1	\$277	
PNL: 36U x 34" Side Skins, L&R	RM3634-SDS		1	\$221	1	\$221	
					Subtotal	\$422,902	\$59,42
Server Software							
Microsoft NT Server 4.0, Enterprise Edition, incl 25 CALs		Microso	ft 3	\$3,999	1	\$3,999	(
Microsoft SQL Server 7.0, Enterprise Edtion, unlimited use	r license	Microsof	ft 3	\$28,999	1	\$28,999	\$10,47
				. ,	Subtotal	\$32,998	\$10,47
Client Hardware						+0_,000	4.0,
SYS: NetServer LC3, w/1 500MHz Proc., 0MB Mem	D7127-AV		1	\$2,018	5	\$10,090	\$8,05
MEM: 64 MB SDRAM Memory Upgrade	D6097-AV		1	\$110	10	\$1,100	φο,σο
MEM: 128 MB SDRAM Memory Upgrade	D6098-AV		1	\$159	10	\$1,590	
,			1		5		ድ ጋ ሲ
DISK: 4GB SCSI 3.5 Internal	D4910-AV		•	\$303		\$1,515	\$2,04
ETHERNET: 10/100TX Mbit/sec, PCI 32-bit	D5013-AV		1	\$68	10	\$680	
MONITOR:15-inch Color	EVG2100-P		1	\$221	⁵ –	\$1,105	*
					Subtotal _	\$16,080	\$10,09
Client Software							
Microsoft Windows 2000 Server, incl 25 CALs		Microso		\$809	5	\$4,045	Ş
Microsoft Visual C++ Professional 6.0		Microso	ft 3	\$549	1 _	\$549	Ş
					Subtotal _	\$4,594	
Jser Connectivity							
Ethernet Switch, 8-Port 100TX TrueFast + 10% spares	NX-SW8	Netlux	4	\$229	8	\$1,832	spare
	Z85094	Genera	l 5	\$27	4505	\$121,635	spare
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10% spares	Z00094				_	\$123,467	
·	263094				Subtotal		
·	200094						\$108.1
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10% spares	203094				Subtotal Total	\$708,729	\$108,1° (\$15.28)
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ¹ / ₂ spares Inisys Service Pre-Pay Discount	265094		1			\$708,729	
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ¹ / ₂ spares Unisys Service Pre-Pay Discount Vestern Micro discount	265094		1				\$108,1° (\$15,2
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ¹ / ₂ spares Unisys Service Pre-Pay Discount Vestern Micro discount Notes:		vice level·	1			\$708,729	
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ^w spares Unisys Service Pre-Pay Discount Vestern Micro discount Notes: 1. HW Maintenance - First 36 months that are included in Unisys war	ranty are upgraded to ser		1		Total	\$708,729 (\$52,347)	(\$15,2
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ^w spares Unisys Service Pre-Pay Discount Vestern Micro discount Notes: 1. HW Maintenance - First 36 months that are included in Unisys war Standard Performance-Gold. Last 24 months are also at service le	ranty are upgraded to ser evel: Standard Performan		1	Five Ye	Total	\$708,729 (\$52,347)	(\$15,2) \$749,20
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10 ^w spares Unisys Service Pre-Pay Discount Vestern Micro discount Notes: 1. HW Maintenance - First 36 months that are included in Unisys war Standard Performance-Gold. Last 24 months are also at service le 2. All Microsoft maintenance is covered by the maintenance cost of M	ranty are upgraded to ser evel: Standard Performan icrosoft SQL Server.		1	Five Ye	Total	\$708,729 (\$52,347)	(\$15,2 \$749,20 40,670.0
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10w spares Unisys Service Pre-Pay Discount Vestern Micro discount Notes: 1. HW Maintenance - First 36 months that are included in Unisys war Standard Performance-Gold. Last 24 months are also at service le 2. All Microsoft maintenance is covered by the maintenance cost of M 3. 10% or minimum 2 spares are added in place of onsite service (preservice)	ranty are upgraded to ser evel: Standard Performan icrosoft SQL Server.		1	Five Ye	Total	\$708,729 (\$52,347)	(\$15,2) \$749,20
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10% spares Inisys Service Pre-Pay Discount Vestern Micro discount Iotes: 1. HW Maintenance - First 36 months that are included in Unisys war Standard Performance-Gold. Last 24 months are also at service le 2. All Microsoft maintenance is covered by the maintenance cost of M	ranty are upgraded to ser evel: Standard Performan icrosoft SQL Server. oducts have a five	ce-Gold.	1	Five Ye	Total	\$708,729 (\$52,347)	(\$15,2 \$749,2 40,670.

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. Thank You.

NUMERICAL QUANTITIES SUMMARY

for

Unisys Aquanta ES5085R Server

MQTh, Computed Maximum Qualified Throughput:

40,670.05

% throughput difference, reported & reproducibility runs:

0.14%

Transaction Mix

New Order	44.88%
Payment	43.02%
Delivery	4.01%
Stock-Level	4.01%
Order-Status	4.05%

Response Times

Transaction	Average	Maximum	90th %ile
New-Order	0.44	4.84	0.58
Payment	0.28	4.98	0.41
Delivery	0.14	0.84	0.17
Stock-Level	2.21	4.12	2.63
Order Status	0.31	2.72	0.43
Menu	0.14	3.46	0.17
Delivery (Deferred)	0.62	3.11	0.87

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	18/12.03	18.98/120.3
Payment	3.00/0	3/12.01	4.33/120.3
Delivery	2.00/0	2/5.07	2.84/50.6
Stock-Level	2.00/0	2/5.05	3.11/50.6
Order-Status	2.00/0	2/10.03	3.18/100.71

Test Duration

Ramp up time	62 minutes
Measurement interval (M)	20 minutes
Transactions (all types) completed during measurement interval	1,812,125
Ramp-down time	15 minutes

Checkpointing:

Number of checkpoints	1
Checkpoint interval	20 minutes