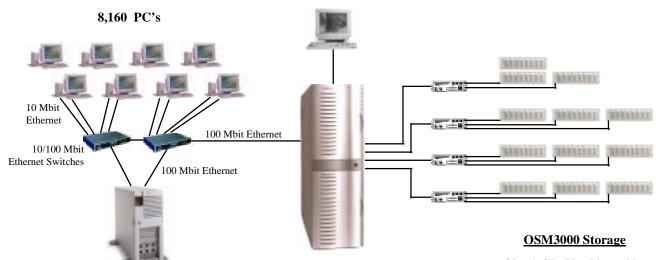
UNISYS	Aquanta ES2025 Server (2P 550MHz/512KB)				TPC-C Rev. 3.4 Report Date: 3-Sep-1999
Total System Cost	TPC-C Throughput	Price/Performance			Availability Date
\$196,642	10,265.90 tpn	пC	C \$19.15 per tpmC		30-Sep-1999 *
Processors	Database Manager	Operating System		Other Software	Number of Users
2 Pentium® III Xeon 550 MHz 512KB L2 cache	Microsoft SQL Server 7.0, Enterprise Edition	Microsoft NT Server 4.0, Enterprise Edition		Microsoft IIS 3.0 Tuxedo 6.3 CFS	8,160



NetServer LC3 Client

Aquanta ES2025 Server

1 Inbuilt SCSI Controller 1 x 4 GB Hot-Pluggable Internal SCSI Disk 4 x SCSI RAID Controllers 1 Inbuilt 100 Mbit NIC 82 x 9 GB Hot-Pluggable External SCSI Disks

Santana Camananan	Server		Clients		
System Components	Quantity	Туре	Quantity	Туре	
Processors	2	550 MHz Pentium® III Xeon with 512KB Level 2 Cache	1	2 x 450MHz Pentium [®] II with 512KB Level 2 Cache	
Memory	1	1024 MB	1	384 MB	
Disk Controllers	4 1	SCSI RAID Inbuilt SCSI	1	Inbuilt SCSI	
Disk Drives	1 82	4.24 GB 8.54 GB	1	3.97 GB	
Total Storage		704.68 GB		3.97 GB	
CD-ROM / Tape	1	SCSI CD-ROM Drive	1	CD-ROM Drive	
* All Components Available Now Except MS SQL Server EE 7.0, SP2					

Unisys Corporation	Aquanta ES2025 Server					TPC-C Rev 3.4	
		(2P 55	0MHz/5	12KB)			3-Sep-1999
		Third Party	U	Jnit		Extended	5 Years
Description	Style	Brand Pric	cing P	rice	Qty.	Price	Maint
Server Hardware							
SYS: Aquanta ES2025, w/ CDRom, 0 Proc, 0MB Mem	ES202151-GZN			\$2,726	1	\$2,726	\$2,432
PROC: 550MHz Pentium III Xeon /512 Cache & VRM	XEO3550-512		1	\$1,437	2	\$2,874	\$816
UPGRD: CPU Voltage Regulator Module	ES202151-XEU		1	\$24	1	\$24	
POWER: AC P/S 400W Tower	DSA400-PWR		1	\$258	2	\$516	\$240
MEM: 256 MB Memory Upgrade	DIM10072-256		1	\$848	4	\$3,392	\$960
CTRL: RAID 3-Ch PCI	RAD5003-P64		1	\$1,400	4	\$5,600	\$1,920
MEM: 32MB Cache & Battery BU	RAD5323-MEB		1	\$479	4	\$1,916	\$672
DISK: 4GB Drive, Ultra SCSI SCA	HDS417-W		1	\$442	1	\$442	\$216
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	
					Subtotal	\$17,752	\$7,256
Storage Hardware							
DISK: 9GB Drive, 10K SCSI LVD, SCA	OSD9205-W45		1	\$618	82	\$50,676	spared
DISK: 9GB Drive, 10K SCSI LVD, SCA 10% spares	OSD9205-W45		1	\$618	9		\$5,562
CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3U	OSM310300-L05		1	\$2,118	12	\$25,416	\$11,520
CBL: SCSI 68-pin VHD Conn's, 5 meter	CBL134-5		1	\$142	11	\$1,562	
CBL: SCSI 68-pin VHD Conn's, 0.5 meter	CBL134-CAT		1	\$69	1	\$69	
ACC: Deskside Pedestal	OSM3000-DSK		1	\$26	12	\$312	
					Subtotal	\$78,035	\$17,082
Server Software							
Microsoft NT Server 4.0, Enterprise Edition, incl 25 CALs		Microsoft	2	\$3,999	1	\$3,999	\$0
Microsoft SQL Server 7.0, Enterprise Edtion, unlimited user licens	е			28,999	1	\$28,999	\$10,475
, ,				,	Subtotal	\$32,998	\$10,475
Client Hardware						, , , , , , , , , , , , , , , , , , , ,	
SYS: NetServer LC3, w/1 450MHz Proc & CDROM, 0MB Mem	D7029-AV		1	\$1,660	1	\$1,660	\$1,635
PROC:1x450MHz Pentium II/512KB Cache UPG	D7032-AV		1	\$993	1	\$993	\$360
MEM: 64 MB SDRAM Memory Upgrade	D6097-AV		1	\$145	2	\$290	*
MEM: 128 MB SDRAM Memory Upgrade	D6098-AV		1	\$255	2	\$510	
DISK: 4GB SCSI 3.5 Internal	D4910-AV		1	\$303	1	\$303	\$408
ETHERNET: 10/100TX Mbit/sec, PCI 32-bit	D5013-AV		1	\$68	2	\$136	ψισο
MONITOR:15-inch Color	EVG2100-P		1	\$221	1	\$221	
WOTH OTHER MONEY	27021001		•	Ψ	Subtotal	\$4,113	\$2,403
Client Software						ψ+,110	Ψ2,400
Microsoft Windows NT Server 4.0, incl 5 CALs		Microsoft	2	\$809	1	\$809	\$0
Microsoft Visual C++ Professional 6.0			2	\$549	1	\$549	\$0
TUXEDO Core Functional Services 6.3 for NT				\$3,000	1	\$3,000	\$2,400
TOALDO Gore i difictional del vices 0.5 for in i		DLA	3	ψ5,000	Subtotal	\$4,358	\$2,400
User Connectivity					Subtotal	\$4,336	\$2,400
•	NV CWO	Mothey	4	ტეეი	4	¢016	anarad
Ethernet Switch, 8-Port 100TX TrueFast + 10% spares	NX-SW8 Z85094		5	\$229	4	\$916	spared
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10% spares	200094	General	5	\$27	1127	\$30,429	spared
						\$31,345	\$0
Hairra Comina Bar Bar Bir areas					Total	\$168,601	\$39,616
Unisys Service Pre-Pay Discount						(47.000)	(\$4,193
Western Micro discount			1			(\$7,382)	
Notes:							
1. HW Maintenance - First 36 months that are included in Unisys w	, , ,		_	V.	0 1 - 1	0	6400.040
Standard Performance-Gold. Last 24 months are also at service						Ownership	\$196,642
All Microsoft maintenance is covered by the maintenance cost of		•			Throughp	ut	10,265.90
10% or minimum 2 spares are added in place of onsite service (year return-to-vendor warranty)	products have a five		\$	/tpmC			\$19.15
4. Pricing: 1 = Western Micro, 2 = Microsoft, 3 = BEA, 4 = Netl	uv 5 – Software House	sa Int'l					

The benchmark results and test methodology were audited by Lorna Livingtree 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. Thank You.

NUMERICAL QUANTITIES SUMMARY

for

Unisys Aquanta ES2025 Server

MQTh, Computed Maximum Qualified Throughput:

10,265.90

% throughput difference, reported & reproducibility runs:

0.13%

Transaction Mix

New Order	44.82%
Payment	43.03%
Delivery	4.03%
Stock-Level	4.06%
Order-Status	4.06%

Response Times

Transaction	Average	Maximum	90th %ile	
New-Order	0.32	3.91	0.40	
Payment	0.18	3.82	0.21	
Delivery	0.12	0.63	0.13	
Stock-Level	1.32	4.56	2.46	
Order Status	0.22	1.18	0.26	
Menu	0.11	3.08	0.12	
Delivery (Deferred)	0.50	1.63	0.70	

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	18.02/120.3
Payment	3.00/0	3/12.02	3.01/120.3
Delivery	2.00/0	2/5.07	2/50.6
Stock-Level	2.00/0	2/5.08	2.01/50.6
Order-Status	2.00/0	2/10.05	2/100.71

Test Duration

Ramp up time	31 minutes
Measurement interval (M)	30 minutes
Transactions (all types) completed during measurement interval	687,149
Ramp-down time	79 minutes

Checkpointing:

· 8:	
Number of checkpoints	1
Checkpoint interval	30 minutes