

System Components	Server		Clients		
System Components	Quantity	Туре	Quantity	Туре	
Processors	4	500 MHz Pentium [®] III Xeon with 2MB Level 2 Cache	3	2 x 450MHz Pentium [®] II with 512KB Level 2 Cache	
Memory	1	4096MB	3	512MB	
Disk Controllers	$8+2 \\ 1+1$	SCSI RAID Inbuilt + PCI SCSI	3	Inbuilt SCSI	
Disk Drives	56 168 8	4.27 GB + 1 4.24 GB 8.54 GB 17.09 GB	3	3.97 GB	
Total Storage		1815.07 GB		11.91 GB	
CD-ROM / Tape	1	SCSI CD-ROM Drive	3	CD-ROM Drive	

Description			- JOUNI	Hz/2MB)			TPC-C Rev 3.4 11-Aug-1999
Description	Otale	Third Party		Unit	0.55	Extended	5 Years
Server Hardware	Style	Brand	Pricing	Price	Qty.	Price	Maint
SYS: Aquanta ES5045, w/ CDRom, 0 Proc, 0MB Mem	ES504151-GZN		1	\$6,041	1	\$6,041	\$3,456
PROC: 500MHz Pentium III Xeon /2MB Cache	XEO3500-2MB		1	\$5,893	4	\$23.572	\$9,888
ACC:Voltage Regulator Module	XEO24001-VRM		1	\$44	6	\$264	\$0
MEM:ECC Memory Board, 0MB Mem	MEM241-MBD		1	\$398	1	\$398	\$132
MEM: 128 MB Memory Upgrade	DIM5072-128		1	\$398	32	\$12,736	\$8,448
DISK: 4GB Drive, Ultra SCSI SCA	HDS417-CX1		1	\$406	1	\$406	\$264
ETHERNET: 100Mbit/sec, PCI 32-bit	ETH1010051-PCI		1	\$99	1	\$99	φ 2 04
ACC: HBA, SCSI w/ VHD Connector	PCI300-SUW		1	\$273	1	\$273	\$132
ACC: Value Add Software	ESS504010-N		1	\$368	1	\$368	\$144
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: RAID 3-Ch PCI w/ 16MB Mem +10% spares	AMI 438-H	AMI	2	\$1,395	10	\$13,950	\$620
	/ 100 11	,	-	\$1,000	Subtotal	\$58,369	\$23,084
Storage Hardware							
DISK: 4GB Drive, 10K Cheetah2, SCA + 10% spares	OSD4205-W45		1	\$588	62	\$36,456	spared
DISK: 9GB Drive, 10K Cheetah2, SCA + 10% spares	OSD9205-W45		1	\$618	185	\$114,330	spared
DISK: 18GB Drive, 10K Cheetah2, SCA + 10% spares	OSD18205-W45		1	\$1,153	10	\$11,530	spared
CAB: Disk, 7 SCA w/ 050 I/F & Cat-Cbl, 0 Disks, 3U	OSM310050-U05		1	\$1,345	14	\$18,830	\$10,752
CAB: Disk, 7 SCA w/ 057 I/F, 0 Disks, 3U	OSM310057-U05		1	\$1,353	21	\$28,413	\$16,128
CAB: Disk, 7 SCA w/ 100 I/F, 0MB, 0 Disks, 3U	OSM310100-U05		1	\$2,735	2	\$5,470	\$3,456
MEM: 32MB OSM cache	OSM1032-MEM		1	\$187	2	\$374	\$216
PWR: 2nd Power Supply Upgrade, OSM Cabinet	OSM3000-BPF		1	\$392	2	\$784	\$264
PWR:3000 VA UPS, 3U	UPD30001-SXR		1	\$1,897	1	\$1,897	\$936
PWR: Distribution Unit, 6 OSM Cabinets	RM1-PDU		1	\$379	6	\$2,274	\$3,600
CBL: SCSI 68-pin HD->VHD Conn's	CBL2210-OSM		1	\$96	23	\$2,208	+-,
CAB: Rackmount Kit for Disk Cages	OSM3000-RMK		1	\$84	37	\$3,108	
CAB: Rack Cabinet, w/ fill pnls, 36U	CAB361-SXR		1	\$1,694	3	\$5,082	
CAB: Bezel kit 36U	BEZ3611-CAB		1	\$295	3	\$885	
CAB: Stabilizer kit 0U	WGT39581-SXR		1	\$206	2	\$412	
PNL: L&R side panels 36U	PAN3621-SXR		1	\$283	3	\$849	
CAB: Rack Cabinet, w/ fill pnls, 19U	CAB191-SXR		1	\$1,621	1	\$1,621	
CAB: Bezel kit 19U			1	\$239	1	\$239	
PNL: L&R side panels 19U	BEZ1911-CAB PAN1921-SXR		1	\$239 \$210	1	\$239 \$210	
FILL LAR SIDE PAHEIS 190	FAN 1921-SAR		1	φ210	Subtotal	\$234,972	\$35,352
Server Software						• • •	,
Microsoft NT Server Enterprise Edition 4.0, incl 25 CALs		Microsoft	3	\$3,999	1	\$3,999	\$0
Microsoft SQL Server Enterprise Editon 7.0, unlimited user license	e	Microsoft	3	\$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	3	\$4,980	\$3,600
PROC:1x450MHz Pentium II/512KB Cache UPG	D7032-AV		1	\$993	3	\$2,979	\$1,512
MEM: 128 MB SDRAM Memory Upgrade	D6098-AV		1	\$255	12	\$3,060	
DISK: 4GB SCSI 3.5 Internal	D4910-AV		1	\$303	3	\$909	\$1,764
ETHERNET: 10/100TX Mbit/sec, PCI 32-bit	D5013-AV		1	\$68	15	\$1,020	
ETHERNET: 100Mbit/sec, PCI 32-bit, Quad	SF1001-ET4		1	\$958	3	\$2,874	\$1,188
MONITOR:15-inch Color	EVG2100-P		1	\$221	3	\$663	
011-0-11-0-11-0-0					Subtotal	\$16,485	\$8,064
Client Software Microsoft Windows NT Server 4.0, incl 5 CALs		Microsoft	3	\$809	3	\$2,427	\$0
Microsoft Visual C++ Professional 5.0			3	\$499	1		\$0 \$0
		Microsoft				\$499	
TUXEDO Core Functional Services 6.3 for NT		BEA	4	\$3,000	3 Subtotal	\$9,000 \$11,926	\$7,200 \$7,200
User Connectivity					Subtotal	\$11,520	\$7,200
Ethernet Switch, 4-Port 100TX TrueFast + 10% spares	NX-SW8	Netlux	5	\$229	3	\$687	spared
Ethernet Hub, 8-Port 10Base-T (8+1 ports) + 10% spares	Z85094	General	6	\$28	2682	\$75,096	spared
					Subtotal	\$75,783	\$0
					Total	\$430,533	\$84,175
Unisys Service Pre-Pay Discount							(\$7,680)
Western Micro discount			1			(\$29,588)	
Notes:							
1. HW Maintenance - First 36 months that are included in Unisys v	varranty are upgraded to	service level:					
Standard Performance-Gold. Last 24 months are also at servic	e level: Standard Perforr	nance-Gold.		Five Ye	ar Cost of O	wnership	\$477,440
2. All Microsoft maintenance is covered by the maintenance cost of	Microsoft SQL Server.			TPC-C	Throughput		24,328.67
3. 10% or minimum 2 spares are added in place of onsite service	products have a five			\$/tpmC			\$19.62
year return-to-vendor warranty)			1				
4. Pricing: 1 = Western Micro, 2 = AMI, 3 = Microsoft, 4 = BEA	, 5 = Netlux, 6 = Softw	vare House Int'l					
The benchmark results and test methodology were audited b			, Inc.				
Prices used in TPC benchmarks reflect the actual prices a custom				mponents. Ir	ndividually		
negotiated discounts are not permitted. Special prices based on as							
standard pricing policies for the listed components. For complete		•					
standard prioring poriores for the instea companients. For complete t			Thank You				

NUMERICAL QUANTITIES SUMMARY for Unisys Aquanta ES5045 Server

MQTh, Computed Maximum Qualified Throughput:

24,328.67

0.04%

% throughput difference, reported & reproducibility runs:

Transaction Mix

New Order	44.92%			
Payment	43.02%			
Delivery	4.00%			
Stock-Level	4.03%			
Order-Status	4.03%			

Response Times

Transaction	Average	Maximum	90th %ile	
New-Order	0.45	5.23	0.73	
Payment	0.32	3.64	0.59	
Delivery	0.11	0.72	0.12	
Stock-Level	2.25	4.67	2.95	
Order Status	0.36	5.34	0.63	
Menu	0.11	3.62	0.11	
Delivery (Deferred)	0.50	1.91	0.75	

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	18.01/12.02	18.03/120.3
Payment	3.00/0	3/12.04	3.02/120.3
Delivery	2.00/0	2/5.05	2.01/50.6
Stock-Level	2.00/0	2/5.06	2.02/50.6
Order-Status	2.00/0	2/10.1	2.02/100.71

Test Duration

Ramp up time	41 minutes
Measurement interval (M)	30 minutes
Transactions (all types) completed during measurement interval	1,624,809
Ramp-down time	365 minutes

Checkpointing:

Number of checkpoints	1
Checkpoint interval	30 minutes