UNISYS			TPC-C Rev. 3.4 Report Date: 7-May-1999 Reprice Date: 10-Aug-1999		
Total System Cost	TPC-C Throughput	t	Price/Performance		Availability Date
\$412,525	23,189.90 tpn	nC	\$17.79 per tpmC		7-May-1999
Processors	Database Manager	Operat	ing System	Other Software	Number of Users
4 Pentium® III Xeon 500 MHz 2MB L2 cache	Microsoft SQL Server Enterprise Edition 7.0	Se	rosoft NT rver 4.0 orise Edition	Microsoft IIS 3. Tuxedo 6.3 CFS	
18,600 PC's <u>3 x N</u>	etServer LC3 Clients	<u>Aquar</u>	nta ES2043 S	Server g	OSM 3000 Storage
					<u>0.00001 (0.00000000) (0.00000000)</u> 0.00001 (0.0000000) (0.00000000) 0.00001 (0.00000000) (0.000000000)
10mbit Ethernet		00 Mbit Ether witch nbuilt + 1 H ontroller + Hot-Plug nternal SC	PCI SCSI 1 x 4GB gable	6 x SCSI RAID Controllers 1 Uninterruptable Power Supply	134 x 9GB + 26 x 18GB Hot-Pluggable External SCSI Disks 2 x SCSI-SCSI RAID Controllers

Surdam Comments		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	$6+2 \\ 1+1$	SCSI RAID Inbuilt + PCI SCSI	3	Inbuilt SCSI
Disk Drives	1 134 26	4.24 GB 8.54 GB 17.09 GB	3	3.97 GB
Total Storage		1593.10 GB		11.91 GB
CD-ROM / Tape	1	SCSI CD-ROM Drive	3	CD-ROM Drive

DescriptionStyleServer HardwareSYS: Aquanta ES2043, w/ CDRom, 0 Proc, 0MB MemES204131-GCNPROC: 500MHz Pentium III Xeon /2MB Cache & VRMXE03500-2MBACC:Voltage Regulator ModuleXE024001-VRMMEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareOSD9205-W45DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSM310300-L05CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR: 3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CATACC: Deskside PedestalOSM3000-DSK	Third Party	Pricing 1 1 1 1 1 1 1 1 1	Hz/2MB) Unit Price \$4,125 \$5,893 \$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897 \$142	Qty. 1 4 4 16 1 1 1 1 1 1 8 Subtotal 148 29 21 2 2 2 2 1 1	Extended Price \$4,125 \$23,572 \$176 \$12,736 \$406 \$999 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784 \$784 \$1,897	10-Aug-1999 5 Years Maint. \$1,968 \$9,888 \$5,568 \$264 \$264 \$20,160 \$4,248 \$216 \$264
Server HardwareSYS: Aquanta ES2043, w/ CDRom, 0 Proc, 0MB MemES204131-GCNPROC: 500MHz Pentium III Xeon /2MB Cache & VRMXEO3500-2MBACC:Voltage Regulator ModuleXEO24001-VRMMEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesOSD9205-W45DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSM310300-L05CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR: 3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Brand	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Price \$4,125 \$5,893 \$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 4 16 1 1 1 1 1 8 Subtotal 21 2 2 2 2 1	Price \$4,125 \$23,572 \$176 \$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	Maint. \$1,968 \$9,888 \$5,568 \$264 \$264 \$264 \$264 \$264 \$264 \$264 \$264
Server HardwareSYS: Aquanta ES2043, w/ CDRom, 0 Proc, 0MB MemES204131-GCNPROC: 500MHz Pentium III Xeon /2MB Cache & VRMXEO3500-2MBACC:Voltage Regulator ModuleXEO24001-VRMMEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesOSD9205-W45DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSM310300-L05CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR: 3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$4,125 \$5,893 \$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 4 16 1 1 1 1 1 8 Subtotal 21 2 2 2 2 1	\$4,125 \$23,572 \$176 \$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$1,968 \$9,888 \$5,568 \$264 \$17,688 spared \$20,160 \$4,248 \$216
SYS: Aquanta ES2043, w/ CDRom, 0 Proc, 0MB MemES204131-GCNPROC: 500MHz Pentium III Xeon /2MB Cache & VRMXEO3500-2MBACC:Voltage Regulator ModuleXEO24001-VRMMEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSM310300-L05CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR: 3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5,893 \$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	4 4 16 1 1 1 8 Subtotal 29 21 2 2 2 2 2 1	\$23,572 \$176 \$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$9,888 \$5,568 \$264 \$17,688 spared \$20,160 \$4,248 \$216
PROC: 500MHz Pentium III Xeon /2MB Cache & VRMXEO3500-2MBACC: Voltage Regulator ModuleXEO24001-VRMMEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRPWR: 2nd Power Supply Upgrade, OSMOSM30000-BPFPWR: 3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5,893 \$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	4 4 16 1 1 1 8 Subtotal 29 21 2 2 2 2 2 1	\$23,572 \$176 \$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$9,888 \$5,568 \$264 \$17,688 spared \$20,160 \$4,248 \$216
ACC:Voltage Regulator Module XEO24001-VRM MEM: 256 MB Memory Upgrade DIM5072-256 DISK: 4GB Drive, Ultra SCSI SCA HDS417-CX1 ETHERNET: 100Mbit/sec, PCI 32-bit ETH1010051-PCI MONITOR:15-inch Color EVG2100-P KEYBD: 104 Key Spacesaver PCK104-SKB MOUSE: 2 Button PS2 PWM1-PS2 CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% spares DAC1164P Storage Hardware DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% spares OSD9205-W45 DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% spares OSD18205-W45 CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3U OSM311030-L05 CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3U OSM311000-LR MEM: 32MB OSM cache OSM1032-MEM PWR: 2nd Power Supply Upgrade, OSM OSM3000-BPF PWR:3000 VA UPS, 3U UPD30001-SXR CBL: SCSI 68-pin VHD Conn's, 5 meter CBL134-5 CBL: SCSI 68-pin VHD Conn's, 0.5 meter CBL134-CAT	Mylex	1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	\$44 \$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	4 16 1 1 1 8 Subtotal 148 29 21 2 2 2 2 1	\$176 \$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$5,568 \$264 \$17,688 \$pared \$20,160 \$4,248 \$216
MEM: 256 MB Memory UpgradeDIM5072-256DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM3000-BPFPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 1 1 1 2 1 1 1 1 1 1 1 1	\$796 \$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	16 1 1 1 8 Subtotal 148 29 21 2 2 2 2 1	\$12,736 \$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$264 \$17,688 spared \$20,160 \$4,248 \$216
DISK: 4GB Drive, Ultra SCSI SCAHDS417-CX1ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 1 1 1 2 1 1 1 1 1 1 1 1	\$406 \$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 1 1 1 8 Subtotal 148 29 21 2 2 2 2 1	\$406 \$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$264 \$17,688 spared \$20,160 \$4,248 \$216
ETHERNET: 100Mbit/sec, PCI 32-bitETH1010051-PCIMONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM3000-BPFPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 1 1 2 1 1 1 1 1 1 1 1	\$99 \$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 1 1 8 Subtotal 148 29 21 2 2 2 2 1	\$99 \$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	\$17,688 spared spared \$20,160 \$4,248 \$216
MONITOR:15-inch ColorEVG2100-PKEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 2 1 1 1 1 1 1 1 1 1	\$221 \$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 1 8 Subtotal 29 21 2 2 2 2 1	\$221 \$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
KEYBD: 104 Key SpacesaverPCK104-SKBMOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	1 1 2 1 1 1 1 1 1 1 1	\$26 \$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 1 8 Subtotal 148 29 21 2 2 2 2 2 1	\$26 \$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
MOUSE: 2 Button PS2PWM1-PS2CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	2 1 1 1 1 1 1 1 1	\$15 \$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	1 8 Subtotal 148 29 21 2 2 2 2 2 1	\$15 \$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
CTRL: RAID 3-Ch PCI w/ 32MB Mem&Bat.BU+10% sparesDAC1164PStorage HardwareStorage HardwareOSD9205-W45DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT	Mylex	2 1 1 1 1 1 1 1 1	\$1,708 \$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	8 Subtotal 148 29 21 2 2 2 2 2 1	\$13,664 \$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
Storage HardwareDISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BFFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1 1 1	\$618 \$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	Subtotal	\$55,040 \$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1 1	\$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	148 29 21 2 2 2 2 1	\$91,464 \$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
DISK: 9GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD9205-W45DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1 1	\$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	29 21 2 2 2 1	\$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
DISK: 18GB Drive, 10K SCSI LVD, SCA + 10% sparesOSD18205-W45CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1	\$1,153 \$2,118 \$4,191 \$187 \$392 \$1,897	29 21 2 2 2 1	\$33,437 \$44,478 \$8,382 \$374 \$784	spared \$20,160 \$4,248 \$216
CAB: Disk, 8 SCA w/ I/F cards, 0 Disks, 3UOSM310300-L05CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1 1	\$2,118 \$4,191 \$187 \$392 \$1,897	21 2 2 2 1	\$44,478 \$8,382 \$374 \$784	\$20,160 \$4,248 \$216
CAB: Disk, 8 SCA w/ RAID Cntl'r, 0MB, 0 Disks, 3UOSM311000-LRMEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1 1	\$4,191 \$187 \$392 \$1,897	2 2 1	\$8,382 \$374 \$784	\$4,248 \$216
MEM: 32MB OSM cacheOSM1032-MEMPWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1 1	\$187 \$392 \$1,897	2 2 1	\$374 \$784	\$216
PWR: 2nd Power Supply Upgrade, OSMOSM3000-BPFPWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1 1	\$392 \$1,897	1	\$784	
PWR:3000 VA UPS, 3UUPD30001-SXRCBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT		1	\$1,897			• -
CBL: SCSI 68-pin VHD Conn's, 5 meterCBL134-5CBL: SCSI 68-pin VHD Conn's, 0.5 meterCBL134-CAT					21.09/	\$936
CBL: SCSI 68-pin VHD Conn's, 0.5 meter CBL134-CAT		1	•	17	\$2,414	
•			\$69	6	\$414	
		1	\$26	23	\$598	
				Subtotal	\$184,242	\$25,824
Server Software						i
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	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	
				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	Microsoft	3	\$499	1	\$499	\$0
TUXEDO Core Functional Services 6.3 for NT	BEA	4	\$3,000	3	\$9,000	\$7,200
				Subtotal	\$11,926	\$7,200
User Connectivity						
Ethernet Switch, 8-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	2574	\$72,072	spared
				Subtotal	\$72,759	\$0
				Total	\$373,450	\$69,251
Jnisys Service Pre-Pay Discount						(\$5,966)
Western Micro discount		1			(\$24,210)	
Notes:						
1. HW Maintenance - First 36 months that are included in Unisys warranty are upgraded				or Cost of	Ownership	\$412,525
Standard Performance-Gold. Last 24 months are also at service level: Standard Perfo					Ownership	
2. All Microsoft maintenance is covered by the maintenance cost of Microsoft SQL Server	r.			Throughpu	at an	23,189.90 \$17.70
3. 10% or minimum 2 spares are added in place of onsite service (products have a five			\$/tpmC	•		\$17.79
year return-to-vendor warranty) 1 Pricing: 1 – Western Micro, 2 – Muley, 3 – Microsoft, 4 – BEA, 5 – Netlux, 6 – 9		ei				
4. Pricing: 1 = Western Micro, 2 = Mylex, 3 = Microsoft, 4 = BEA, 5 = Netlux, 6 = 5						
The benchmark results and test methodology were audited by Tom Sawyer of Pe			-l:	- I. P. 1. P		
Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one	•				(I	
negotiated discounts are not permitted. Special prices based on assumption about past			•			
standard pricing policies for the listed components. For complete details, see the pricing hat the stated prices are not available according to these terms, please inform the TPC a				ncauons. If you	unna	

NUMERICAL QUANTITIES SUMMARY for Unisys Aquanta ES2043 Server

MQTh, Computed Maximum Qualified Throughput:

23,189.90 0.26%

% throughput difference, reported & reproducibility runs:

Transaction Mix

New Order	44.82%
Payment	43.08%
Delivery	4.02%
Stock-Level	4.03%
Order-Status	4.05%

Response Times

Transaction	Average	Maximum	90th %ile
New-Order	0.45	5.52	0.74
Payment	0.31	5.33	0.59
Delivery	0.11	0.60	0.12
Stock-Level	2.38	5.44	3.12
Order Status	0.34	3.94	0.62
Menu	0.11	3.77	0.11
Delivery (Deferred)	0.48	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	18.01/12.04	18.03/120.3
Payment	3.00/0	3/12.02	3.02/120.3
Delivery	2.00/0	2/5.06	2.01/50.6
Stock-Level	2.00/0	2/5.04	2.01/50.44
Order-Status	2.00/0	2/10.14	2.01/100.7

Test Duration

Ramp up time	39 minutes
Measurement interval (M)	30 minutes
Transactions (all types) completed during measurement interval	1,552,188
Ramp-down time	61 minutes

Checkpointing:

Number of checkpoints	1
Checkpoint interval	30 minutes