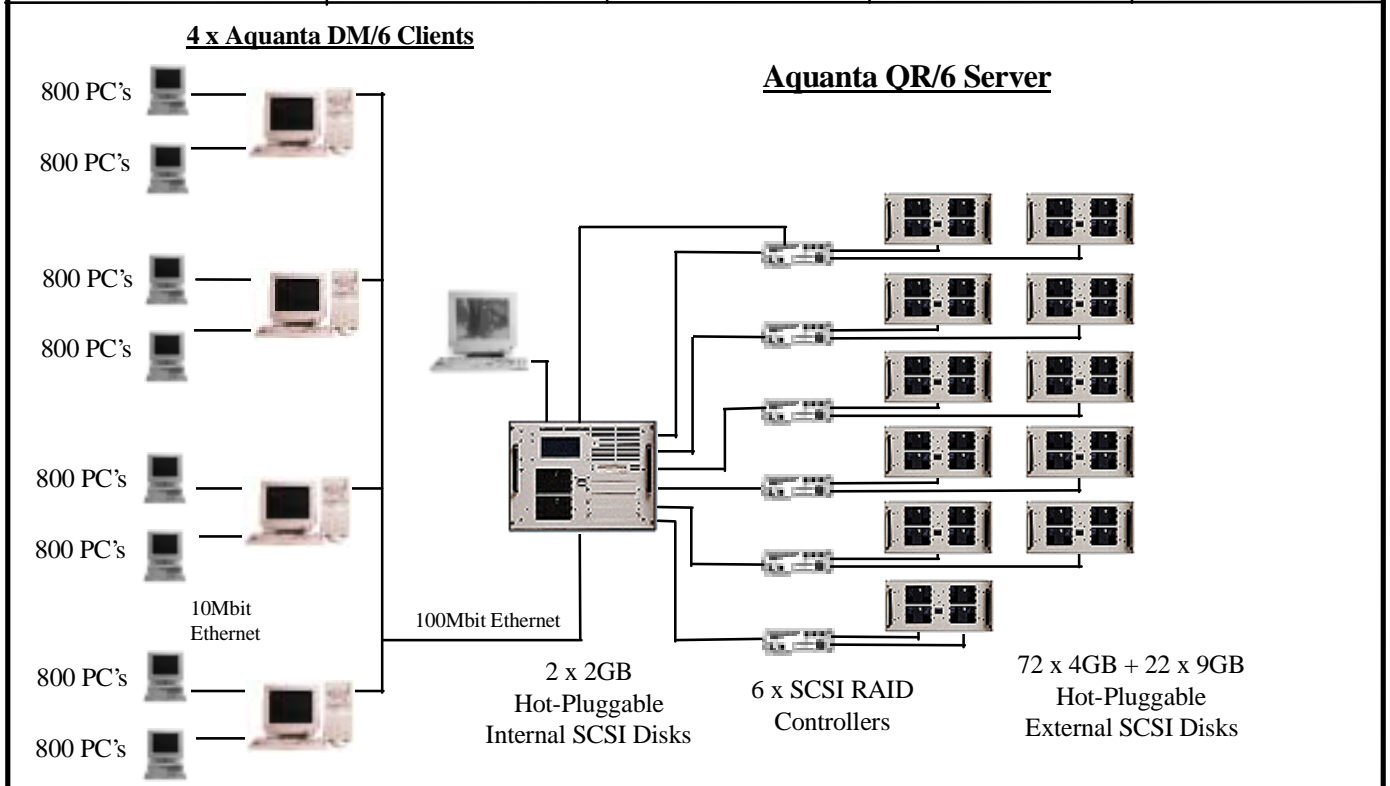


Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
<b>\$297,392</b>	<b>7407.05 tpmC</b>	<b>\$40.15 per tpmC</b>	<b>06-Aug-1997</b>
Processors	Database Manager	Operating System	Other Software
4 Pentium Pro® 200 MHz 512KB L2 cache	Microsoft SQL Server 6.5 SP3	Microsoft NT Server 4.0 SP1	Microsoft IIS 3.0
<b>Number of Users</b>			
<b>6400</b>			



System Components	Server		Clients	
	Quantity	Type	Quantity	Type
Processors	4	200 MHz Pentium Pro® with 512KB Level 2 Cache	4	200MHz Pentium Pro® with 256KB Level 2 Cache
Memory	1	2048MB	4	128 MB
Disk Controllers	6	SCSI RAID controllers	4	Inbuilt IDE
Disk Drives	2	2GB internal	4	1.5 GB internal
	72	4GB external		
	22	9GB external		
Total Storage		482.25 GB		6 GB
CD-ROM / Tape	1	CD-ROM Drive	4	CD-ROM Drive

Unisys Corporation FDR Pricing		Aqunta QR/6-DM/6 Client Server			TPC-C Rev 3.3 06-Aug-1997		
Description	Style	Third Party Brand Pricing	MRLP Unit Price	Qty.	Extended Price	5 Years Maint.	
<b>Server Hardware</b>							
SYS: Aqunta QR/6, 0 Proc, 0MB Mem	SFR600081-BAZ	1	\$10,042	1	\$10,042	\$2,616	
PROC:1x200MHz PentiumPro/512KB Cache	SXE6200-512	1	\$1,637	4	\$6,548	\$2,592	
MEM:ECC Memory Board, 0MB Mem	MEM622-SIM	1	\$347	1	\$347	\$96	
MEM:128 MB Memory Upgrade	MTP6-128	1	\$1,177	16	\$18,832	\$3,072	
CTRL: SVGA	VID11-ISA	1	\$91	1	\$91		
CTRL:RAID Tri-SCSI-2 Ultra PCI	RAD381-PCI	1	\$1,283	6	\$7,698	\$2,880	
DISK: 2GB SCSI 3.5 Internal SCA	HDS2000-WC7	1	\$569	2	\$1,138	\$576	
CDROM: Twelve Speed	CDR1200-SI	1	\$170	1	\$170	\$120	
ETHERNET: 100Mbit/sec, PCI 32-bit	SF1001-FET	1	\$170	1	\$170	\$48	
DRW: Disk Drive Drawer + 10% spares	P/N 11910190	ALR	\$1,799	13	\$23,387	\$5,603	
DISK: 4GB Drive + 10% spares	HDS4000-WC7	1	\$813	80	\$65,040	spared	
DISK: 9GB Drive + 10% spares	HDS9000-WC7	1	\$1,391	25	\$34,775	spared	
MONITOR:14-inch Color	EVG142-COL	1	\$210	1	\$210		
K/B: Keyboard/Mouse Kit	KBM83-SXR	1	\$156	1	\$156		
CAB: Rack Cabinet, 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 0U	WGT39581-SXR	1	\$103	3	\$309		
DRW: Monitor Shelf	MON11-SXR	1	\$91	1	\$91		
DRW: Keyboard, 1U	KYB12-SXR	1	\$139	1	\$139		
PNL: L&R side panels 36U	PAN3621-SXR	1	\$182	1	\$182		
PNL: Filler panels (1U & 3U)	PAN31-SXR	1	\$22	7	\$154		
<b>Subtotal</b>					<b>\$174,277</b>	<b>\$17,603</b>	
<b>Server Software</b>							
Microsoft Windows NT Server 4.0 (w/ 5cal)		Microsoft	3	\$809	1	\$809	\$0
Microsoft SQL Server 6.5 unlimited user		Microsoft	3	\$24,999	1	\$24,999	\$10,475
<b>Subtotal</b>					<b>\$25,808</b>	<b>\$10,475</b>	
<b>Client Hardware</b>							
SYS: Aqunta DM/6 II, 0 Proc, 0MB Mem	CMT60072-ZFA	1	\$789	4	\$3,156	\$1,728	
PROC:1x200MHz PentiumPro/256KB Cache	PRC 6200-256	1	\$639	4	\$2,556		
MEM: 32 MB EDO Memory Upgrade	MPM4-32M	1	\$166	16	\$2,656	\$2,304	
CTRL: SVGA	PCV102-PCI	1	\$105	4	\$420		
DISK: 1.5GB Drive	HDI1600-5	1	\$200	4	\$800	\$480	
CDROM: Twelve Speed IDE	CDR1200-AI	1	\$108	4	\$432	\$480	
ETHERNET: 100Mbit/sec, PCI 32-bit	ETH101007-PCI	1	\$103	4	\$412		
ETHERNET: 10Mbit/sec, PCI 32-bit	ETH101-PCI	1	\$113	8	\$904		
MONITOR:14-inch Color	EVG142-COL	1	\$210	4	\$840		
KEYBD: 104 Key Spacesaver	PCK104-SKB	1	\$29	4	\$116		
MOUSE: 2 Button PS/2	PWM1-PS2	1	\$21	4	\$84		
<b>Subtotal</b>					<b>\$12,376</b>	<b>\$4,992</b>	
<b>Client Software</b>							
Microsoft Windows NT Server 4.0		Microsoft	3	\$809	4	\$3,236	
Microsoft SQL Server Programmer's Toolkit		Microsoft	3	\$499	1	\$499	
Microsoft Visual C++ v.4.0		Microsoft	3	\$499	1	\$499	
<b>Subtotal</b>					<b>\$4,234</b>	<b>\$0</b>	
<b>User Connectivity</b>							
Netlux 8-Port 100TX TrueFast Ethernet Hub + 2 spares		NETLUX	4	\$329	3	\$987	spared
Netlux NX-H9+(8+1) 9-Port 10BASE-T Ethernet Hub+10% spares		NETLUX	4	\$53	880	\$46,640	spared
<b>Subtotal</b>					<b>\$47,627</b>	<b>\$0</b>	
<b>Total</b>					<b>\$264,322</b>	<b>\$33,070</b>	
<b>Notes:</b>							
1. HW Maintenance - 1st 36 months included in Unisys product costs. The next 24 months are at the level: Standard Performance-Gold.					<b>Five Year Cost of Ownership</b> <b>\$297,392</b> <b>TPC-C Throughput</b> <b>7407.05</b> <b>\$/tpmC</b> <b>\$40.15</b>		
2. All Microsoft maintenance is covered by the maintenance cost of Microsoft SQL Server.							
3. 10% or minimum 2 spares are added in place of onsite service (products have a five year return-to-vendor warranty)							
4. Pricing: 1 - Western Micro, 2 - ALR, 3 - Microsoft, 4 - Netlux							
<b>The benchmark results and test methodology were audited by Richard Gimarc of Performance Metrics, Inc.</b>							
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 assumptions 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 benchmark specifications. If you find that the stated prices are not available according to these items, please inform the TPC at pricing@tpc.org.							

# NUMERICAL QUANTITIES SUMMARY

UNISYS Corporation Aquanta QR/6  
Microsoft SQL Server 6.5

**MQTh, Computed Maximum Qualified Throughput:** 7407.05

% throughput difference, reported & reproducibility runs: 1.41%

## Transaction Mix (% of Total Transactions)

Transaction Mix	
New-Order	44.76%
Payment	43.06%
Delivery	4.05%
Stock-Level	4.06%
Order-Status	4.07%

## Response Time (seconds)

Transaction	Average	Maximum	90th %ile
New-Order	2.00	8.37	2.73
Payment	1.83	6.29	2.54
Delivery	0.29	0.97	0.31
Stock-Level	4.48	12.54	6.20
Order-Status	2.48	11.57	3.36
Menu	0.21	1.08	0.32
Delivery (Deferred)	2.97	28.37	3.65

## 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	18.00/0.00	18.02/12.07	18.48/120.51
Payment	3.00/0.00	3.02/12.03	3.54/120.53
Delivery	2.00/0.00	2.01/5.04	2.34/37.20
Stock-Level	2.00/0.00	2.01/5.06	2.20/42.73
Order-Status	2.00/0.00	2.01/10.02	2.29/95.31

## Test Duration:

Ramp up time 1hour, 28 minutes  
Measurement interval (M) 60 minutes  
Transactions (all types) completed during measurement interval 992,864  
Ramp-down time 35.5 minutes

### Checkpointing:

Number of checkpoints 2  
Checkpoint interval 30 minutes