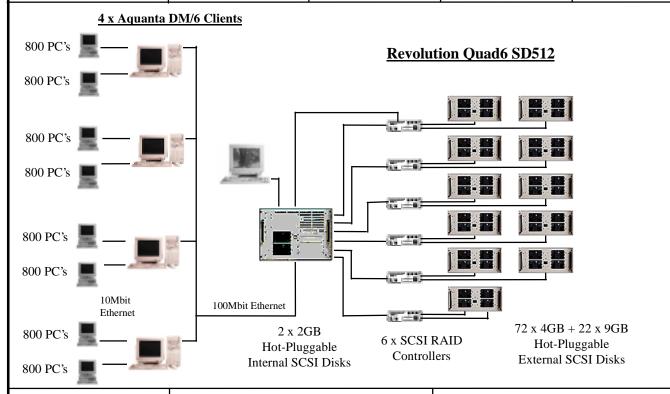
Advanced Logic Research, Inc.	Revolution Quad6 SD512 Client/Server				TPC-C Rev. 3.2.3 Report Date: 04-Apr-1997		
Total System Cost	TPC-C Throughput Price/			/Performance	Availability Date		
\$427,949	7407.05 tpm	C \$57.		7407.05 tpmC \$57.78 per tp		78 per tpmC	30-Apr-1997
Processors	Database Manager	Operating System		Other Software	Number of Users		
4 Pentium [®] Pro 200 MHz 512MB L2 cache	Microsoft SQL Server 6.5 SP3	Microsoft NT Server 4.0 SP1		Microsoft IIS 3.0	6400		



System Components	Server		Clients		
	Quantity	Туре	Quantity	Туре	
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 72 22	2GB internal 4GB external 9GB external	4	1.5 GB internal	
Total Storage		482.25 GB		6 GB	
CD-ROM / Tape	1	CD-ROM Drive	4	CD-ROM Drive	

Advanced Logic Research, Inc.	Revolution Quad6 SD512						TPC-C Rev 3.2.3
FDR Pricing				Client Server			04-Apr-1997
Description	Part Number	Third Part Brand Pri	-	MRLP Unit Price	Otv	Extended Price	5 Years Maint
Server Hardware	T dit Number	Dianairi	cing	Ontrice	Qty.	11100	manic
	72460220			\$12,495	4	¢12.405	644 244
Revolution Quad6 SD512					1	\$12,495	\$14,314
200-MHz Pentium Pro/512KB Cache	12968621	00)		\$2,295	3	\$6,885	INCL
ECC Memory Board, 0MB Mem	(included w/ 724602)	20)		\$0	1	\$0	INCL
128-MB Memory Upgrade	12903260	00)		\$2,755	16	\$44,080	INCL
SVGA Video Card	(included w/ 724602	20)		\$0	1	\$0	INCL
3-Channel ADAC PCI Ultra SCSI RAID Ctlr	11900983-10			\$1,315	6	\$7,890	INCI
2-GB SCA F/W Ultra SCSI Hard Drive	11351230			\$955	2	\$1,910	INCI
16X SCSI CD-ROM Drive	11315280			\$168	1	\$168	INCL
10/100 PCI Network Interface Card	CP000169			\$290	1	\$290	INCL
Quick Hot Swap II Storage Drwr + 2 spares	11910190			\$1,795	13	\$23,335	INCI
4-GB SCA F/W Ultra SCSI Hard Drive	11351430			\$1,795	72	\$129,240	INCI
9-GB SCA F/W Ultra SCSI Hard Drive	11351910			\$2,845	22	\$62,590	INCL
14-inch Color Monitor	11001034			\$295	1	\$295	INCL
Keyboard Tray Kit (Kybd, Mouse, Cables)	11910130			\$165	1	\$165	INCI
Server to Disk Drawers SCSI Cable	(two included w/ ea	11910190)		\$0	12	\$0	INCI
Rack Cabinet (44U)	11910170			\$2,195	3	\$6,585	INCL
Rack Coupling Kit (44U)	82321506			\$165	2	\$330	INCL
Rack Cabinet Bezel Kit (44U)	(included w/ 119107	0)		\$0	3	\$0	INCL
Rack Cabinet Weight kit (0U)	(N/A)			\$0	3	\$0	INCL
Monitor Alcove	82321502			\$145	1	\$145	INCL
Keyboard Drawer (1U)	(included w/ 119101	30)		\$0	1	\$0	INCL
Rack Cabinet Side Panel Kit (44U)	82321503			\$245	1	\$245	INCL
Rack Cabinet Filler Panel (3U)	82321204			\$30	6	\$180	INCL
Rack Cabinet Filler Panel (1U)	82321202			\$15	2_	\$30	INCL
				Su	btotal	\$296,858	\$14,314
Server Software							
Microsoft Windows NT Server 4.0 (w/ 10cal)		Microsoft	2	\$809	1	\$809	\$0
Microsoft SQL Server 6.5 w/ 5 cal		Microsoft	2	\$1,399	1	\$1,399	\$10,475
MS SQL Internet Conn. License		Microsoft	2	\$2,999	1	\$2,999	\$0
				Su	btotal	\$5,207	\$10,475
Client Hardware							
SYS: Aquanta DM/6 II, 0 Proc, 0MB Mem	CMT60072-ZFA	Unisys	1	\$343	4	\$1,372	\$3,272
PROC:1x200MHz PentiumPro/256KB Cache	PRC 6200-256	Unisys	1	\$1,087	4	\$4,348	INCI
MEM: 32 MB EDO Memory Upgrade	MPM4-32M	Unisys	1	\$244	16	\$3,904	INCI
CTRL: SVGA	PCV102-PCI	Unisys	1	\$176	4	\$704	INCL
DISK: 1.5GB Drive	HDI1600-5	Unisys	1	\$306	4	\$1,224	INCL
CDROM: Twelve Speed IDE	CDR1200-SI	Unisys	1	\$357	4	\$1,428	INCL
ETHERNET: 100Mbit/sec, PCI 32-bit	ETH101007-PCI	Unisys	1	\$156	4	\$624	INCI
ETHERNET: 10Mbit/sec, PCI 32-bit	ETH101-PCI	Unisys	1	\$153	8	\$1,224	INCL
MONITOR:14-inch Color	EVG142-COL	Unisys	1	\$341	4	\$1,364	INCL
K/B: Keyboard/Mouse/Power Cord kit	KBM104-SS	Unisys	1	\$78	4	\$312	INCL
					btotal	\$16,504	\$3,272
Client Software					_	****	**,
Microsoft Windows NT Server 4.0		Microsoft	2	\$809	4	\$3,236	\$0
Microsoft SQL Server Programmer's Toolkit		Microsoft	2	\$499	1	\$499	\$0
Microsoft Visual C++ v.4.0		Microsoft	2		1	\$499	\$0
IVIICIOSOIT VISUAI CTT V.4.0		MICIOSOIT	_	•	btotal	\$4,234	\$0
User Connectivity				Ju		4-11-0-1	φυ
NetLux 8-Port 100TX TrueFast Ethernet Hub + 2 spares		NETLUX	3	\$595	3	\$1,785	\$0
			3			\$1,765 \$75,300	\$0 \$0
NetLux 24-Port 10Base-T Ethernet Hub + 10% spares		NETLUX	3	•	300 _ btotal	\$75,300 \$ 77,085	\$0
				Su	Total	\$399,888	\$28,061
Notes:					, Jidi	ψυυσ,υυυ	Ψ20,061
	unce cost of						
All Microsoft maintenance is covered by the maintena Microsoft SOL Sonior	IIICE COST Of			Eivo Voca O	c+ ~f ^	wnorchin	6407.040
Microsoft SQL Server.				Five Year Co	າຣເປເປ	wiiersiiib	\$427,949
	o conside		ı	TDC C TI	onle		7407.0
 10% or minimum 2 spares are added in place of onsi (products have a five year return-to-vendor warranty) 	e service			TPC-C Throu \$/tpmC	ıghput		7407.05 \$57.78

The benchmark results and test methodology were audited by Richard Gimarc 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 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 terms, please inform the TPC at pricing@tpc.org. Thank you.

NUMERICAL QUANTITIES SUMMARY

ALR Revolution Quad6 SD512 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)

Checkpoint interval

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

30 minutes