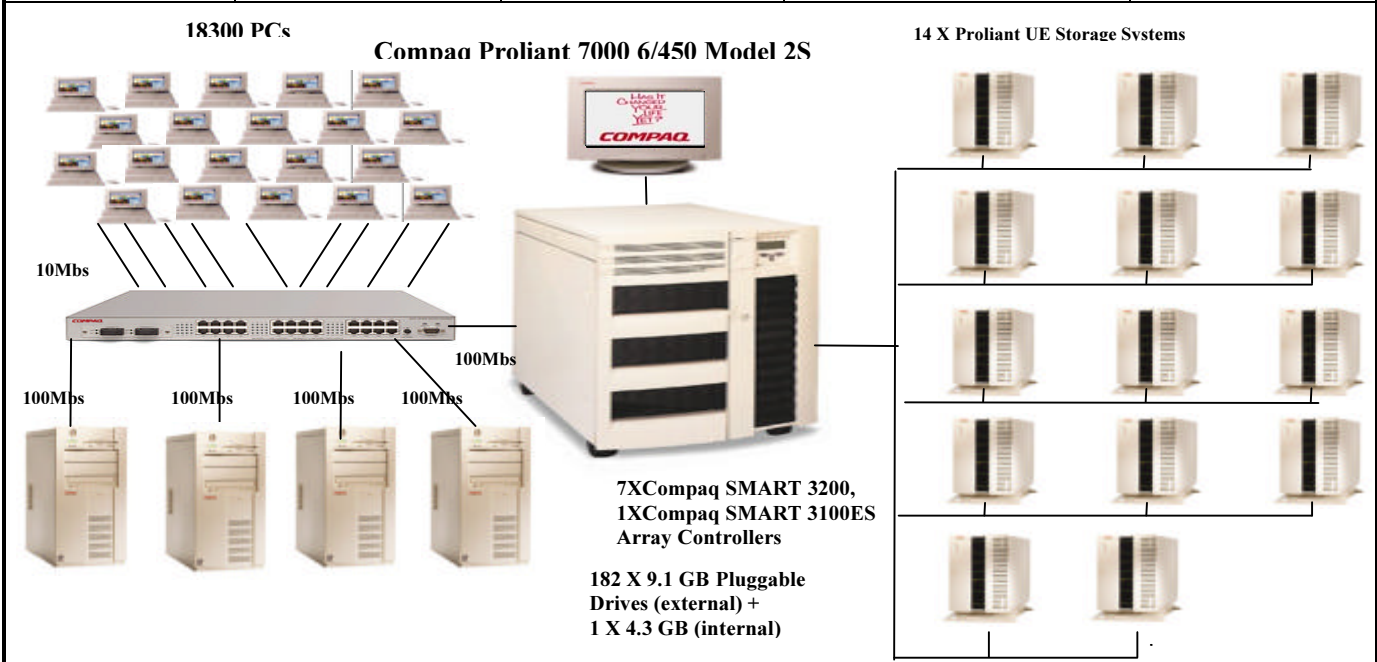


Compaq Computer Corporation	ProLiant 7000-6/450-2S	TPC-C Rev. 3.4
	C/S with 4 ProLiant 1600	Report Date: Feb 10, 1999

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$423,542	22478.9	\$18.84	March 1, 1999

Processors	Database	Operating System	Other Software	Number Users
4 Pentium II Xeon 450 MHz	Microsoft SQL Server 7.0 Enterprise Edition	Windows NT 4.0 Enterprise Edition (SP4)	NonStopTuxedo 1.3 Microsoft Visual C++ MKS Toolkit for NT Microsoft SQL Toolkit	18300



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	4	450MHz Pentium II Xeon w/ 2MB Cache	2	400MhzPentium II w/ 512K cache
Memory	8	512MB	2	128MB
Disk Controllers	7	SMART SCSI Array Controller 3200	2	64MB
	1	SMART SCSI Array Controller 3100ES	1	Integrated Ultra SCSI Controller
Disk Drives	182	9.1GB SCSI Drive	1	4.3GB SCSI Drive
	1	4.3GB SCSI Drive		
Total Storage		1458 GigaBytes		
Tape Drives	1	4/16 TurboDAT		

Compaq Computer Corporation		ProLiant 7000- 6/450-2S		TPC-C REV 3.4		
		Client/Server		Report Date:		10-Feb-99
Description	Part Number	Third Party Brand	Unit Price	Qty	Extended Price	5 yr. Maint. Price
Server Hardware						
ProLiant 7000-6/450-2S	386671-001		32,928	1	32,928	
2 x Pentium II Xeon/450MHz - 2MB Cache 3 x Integrated Fast-SCSI-3 Controller CD-ROM, 3100ES SMART Cont. 10/100 Ethernet Controller						
ProLiant Warranty Upgrade	276535-000		1,120	1		1,120
Onsite 5x8 4 Hr Response Maintenance						
ProLiant Xeon 450 - 2MB Processor Kit	328814-B21		4,816	2	9,632	
512MB EDO DIMM Memory Kit (50ns)	328582-B21		2,005	7	14,034	
Compaq SMART Array Controller 3200	295643-B21		1,960	7	13,720	
ProLiant Storage System -UE	348710-002		1,903	14	26,640	
ProLiant Storage Warranty Upgrade	276537-001		430	14		6,020
4.3-GB UW SCSI-3 10,000 RPM Drive	304858-B21		503	1	503	
9.1 GB Hot-Plug SCSI-3 Drive - 10K	336357-B21		940	182	171,022	
Compaq VGA V55 Color Monitor	308006-001		240	1	240	
4/8GB DAT Drive	295353-B21		703	1	703	
Compaq UPS Model T2000	242688-005		1,786	1	1,786	
Subtotal					271,208	19,102
Server Software						
Microsoft SQL Server 7.0 Enterprise		Microsc 2	28,999	1	28,999	10,475
MKS Toolkit for NT		MKS 1	499	1	499	5 Yr WTY
Microsoft Visual C++ and Subscription Service		Microsc 2	499	1	499	Incl Above
Microsoft Windows NT Enterprise v. 4.0		Microsc 2	3,999	1	3,999	Incl Above
Subtotal					33,996	10,475
Client Hardware						
ProLiant 1600 6/400 - 64MB, 1001	315570-001		2,496	4	9,986	
ProLiant Warranty Upgrade	276535-000		1,120	4		4,480
Onsite 5x8 4 Hr Response Maintenance						
ProLiant 1600 6/400 Processor C	313612-B21		1,064	4	4,256	2,378
64-Megabyte SD DIMM Kit	313614-B21		225	4	900	
128-Megabyte SD DIMM Kit	313615-B21		465	8	3,718	
Compaq VGA V55 Color Moni	308006-001		240	4	960	
Subtotal					19,820	6,858
Client Software						
Microsoft Windows NT Server v. 4.0		Microsc 2	809	4	3,236	Incl. Above
Microsoft SQL Toolkit		Microsc 2	499	1	499	Incl. Above
Compaq Non-Stop Tuxedo CS for NT - 1.3			1,950	4	7,800	640
Subtotal					11,535	640
User Connectivity						
Compaq SW3322 24Port Dual Spd Switch	355300-B21		2,419	4	9,677	See Note 4
8-port 10BaseT hub		Generic 1	29.00	2550	73,950	See Note 4
Subtotal					83,627	0
Large Purchase and Cash discount					9.0%	
					(\$33,719)	
Total					\$386,466	\$37,075
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 pricing 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.						
					Five-Year Cost of Ownership:	\$423,542
					tpmC Rating:	22478.90
					\$/ tpmC:	\$18.84
(Pricing: 1=Allstar Systems 2= Microsoft) - Note 4 = 5 Year warranty with 10% Spares						
Note: The benchmark results and test methodology were audited by Lorna Livingtree of Performance Metrics, Inc.						

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

22478.9 tpmC

% throughput difference, reported & reproducibility runs

0.10%

Response Times (in seconds)

	Average	90%	Maximum
New-Order	0.63	1.11	6.74
Payment	0.51	0.99	7.45
Order-Status	0.63	1.01	6.32
Delivery (interactive portion)	0.11	0.11	5.74
Delivery (deferred portion)	0.47	0.77	2.38
Stock-Level	2.08	2.82	8.52
Menu	0.11	0.12	6.11

Transaction Mix, in percent of total transaction

New-Order	44.76%
Payment	43.13%
Order-Status	4.04%
Delivery	4.02%
Stock-Level	4.05%

Emulation Delay (in seconds)

	Resp.Time	Menu
New-Order	N/A	N/A
Payment	N/A	N/A
Order-Status	N/A	N/A
Delivery (interactive)	N/A	N/A
Stock-Level	N/A	N/A

Keying/Think Times (in seconds)

	Min.	Average	Max.
New-Order	18.00/0.00	18.00/12.17	18.22/50.90
Payment	3.00/0.00	3.00/12.17	3.10/123.28
Order-Status	2.00/0.00	2.01/12.16	2.06/123.27
Delivery (interactive)	2.00/0.00	2.01/5.12	2.12/50.90
Stock-Level	2.01/0.00	2.01/10.08	2.08/101.90

Test Duration

Ramp-up time	60 minutes
Measurement interval	20 minutes
Transactions (all types) completed during measurement interval	997336
Ramp down time	11 minutes

Checkpointing

Number of checkpoints	1
Checkpoint interval	20 minutes