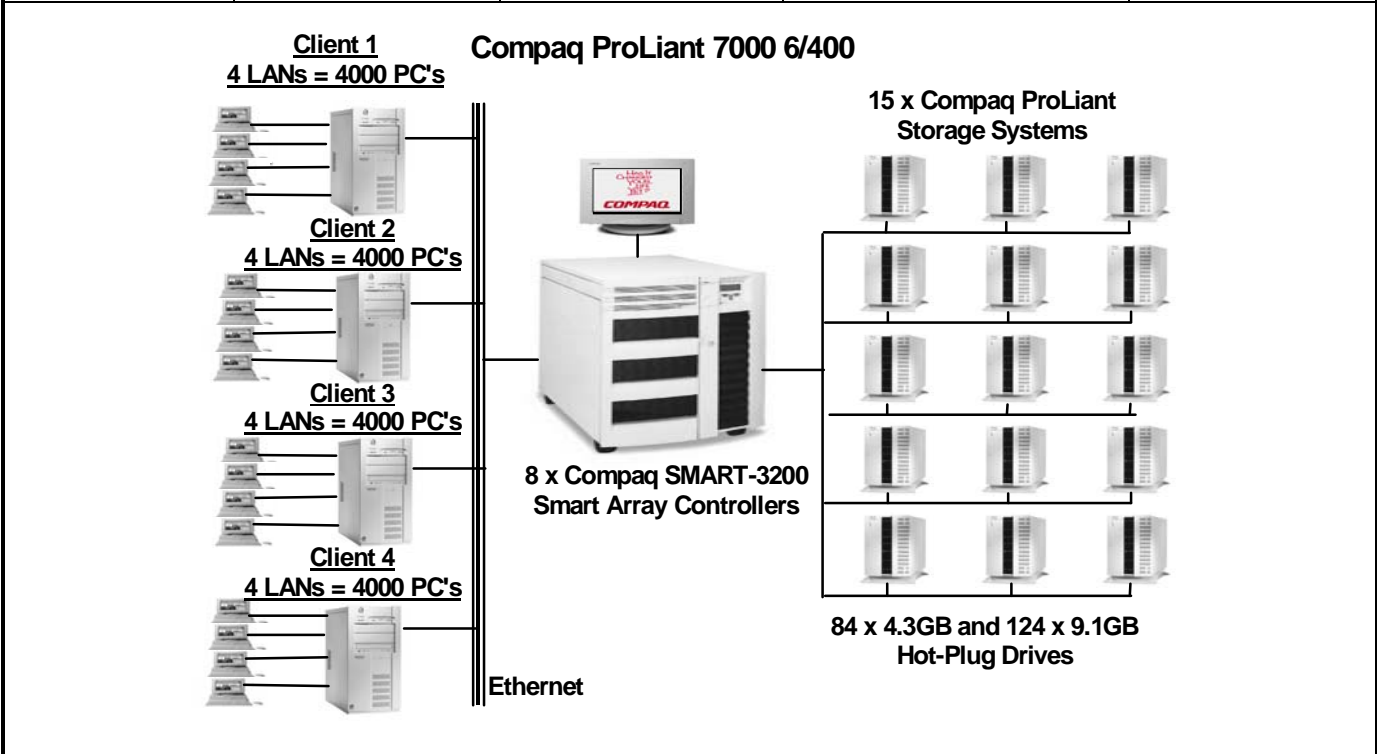


Compaq Computer Corporation		ProLiant 7000-6/400-1M-4P		TPC-C Rev. 3.4					
		C/S with 4 ProLiant 1600		Report Date: Dec. 10, 1998					
Total System Cost		TPC-C Throughput		Price/Performance		Availability Date			
<b>\$443,951</b>		<b>19725.1</b>		<b>\$22.50</b>		<b>June 10, 1999</b>			
Processors		Database		Operating System		Other Software		Number Users	
4 Pentium II Xeon 400 MHz		Microsoft SQL Server 7.0 Enterprise Edition		Windows NT 4.0 Enterprise Edition		NonStopTuxedo 1.3 Microsoft Visual C++ MKS Toolkit for NT Microsoft SQL Toolkit		<b>16000</b>	



System Components	Server		Each Client	
	Quantity	Description	Quantity	Description
Processor	4	400MHz Pentium II Xeon w/ 1MB Cache	2	400MhzPentium II w/ 512K cache
Memory	8	512MB	2	128MB
Disk Controllers	8	SMART SCSI Array Controller 3200	2	64MB
Disk Drives	124	9.1GB SCSI Drive	1	Integrated Ultra SCSI Controller
	85	4.3GB SCSI Drive	1	4.3GB SCSI Drive
Total Storage		1317 GigaBytes		
Tape Drives	1	4/16 TurboDAT		

Compaq Computer Corporation		ProLiant 7000- 6/400-1M			TPC-C REV 3.4		
Description		Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price
<b>Server Hardware</b>			<b>Brand Pricing</b>				
ProLiant 7000-6/400-1M	312150-001	1	22,399	1	22,399		
Pentium II Xeon/400MHz - 1MB Cache 2 x Integrated Fast-SCSI-2 Controller CD-ROM 10/100 Ethernet Controller							
ProLiant Warranty Upgrade	276535-000	1	1,120	1			1,120
Onsite 5x8 4 Hr Response Maintenance							
ProLiant Xeon 400 - 1MB Processor Kit	312286-B21	1	4,256	3	12,768		
512MB EDO DIMM Memory Kit (50ns)	328582-B21	1	2,005	8	16,038		
Compaq SMART Array Controller 3200	295643-B21	1	2,218	8	17,741		
Enhanced ProLiant Storage System - U2	304110-B22	1	1,859	1	1,859		
Enhanced ProLiant Storage System - Ux	348700-001	1	3,080	14	43,120		
ProLiant Storage Warranty Upgrade	276537-001	1	430	15			6,450
4.3-GB Wide-Ultra SCSI-3 10,000 RPM	304858-B21	1	503	1	503		
4.1 GB Pluggable SCSI-3 Drive - 10K RPM	336356-B21	1	671	84	56,354		
9.1 GB Pluggable SCSI-3 Drive - 10K RPM	336357-B21	1	1,052	124	130,408		
Compaq VGA V50 Color Monitor	264150-001	1	240	1	240		
4/8GB DAT Drive	295353-B21	1	782	1	782		
					<b>Subtotal</b>	<b>302,212</b>	<b>21,364</b>
<b>Server Software</b>							
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
					<b>Subtotal</b>	<b>33,996</b>	<b>10,475</b>
<b>Client Hardware</b>							
ProLiant 1600 6/400 - 64MB, 100TX Nic, 4.3C	315570-001	1	2,496	4	9,986		
ProLiant Warranty Upgrade	276535-000	1	1,120	4			4,480
Onsite 5x8 4 Hr Response Maintenance							
ProLiant 1600 6/400 Processor Option Kit	313612-B21	1	1,064	4	4,256		2,582
64-Megabyte SD DIMM Kit	313614-B21	1	225	4	900		
128-Megabyte SD DIMM Kit	313615-B21	1	465	8	3,718		
Netelligent Dual Port PCI NIC	242559-001	1	263	4	1,053		
Netelligent 10/100 UTP PCI NIC	169845-001	1	81	8	645		
Compaq VGA V50 Color Monitor	264150-001	1	240	4	959		
					<b>Subtotal</b>	<b>21,517</b>	<b>7,062</b>
<b>Client Software</b>							
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	1,950	4	7,800		640
					<b>Subtotal</b>	<b>11,535</b>	<b>640</b>
<b>User Connectivity</b>							
Compaq 100Base-T Workgroup Hub - 4-8-port 10BaseT hub	348450-001	1	185	3	554		See Note 4
		Generic 1	31.60	2218	70,089		See Note 4
					<b>Subtotal</b>	<b>70,643</b>	<b>0</b>
<b>Large Purchase and Cash discount</b>		<b>9.0%</b>	<b>1</b>			<b>(\$35,494)</b>	
					<b>Total</b>	<b>\$404,410</b>	<b>\$39,541</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 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.					<b>Five-Year Cost of Ownership: \$443,951</b>		
					<b>tpmC Rating: 19725.10</b>		
					<b>\$ / tpmC: \$22.50</b>		
(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**

**19725.10 tpmC**

% throughput difference, reported & reproducibility runs

1.00%

### Response Times (in seconds)

	Average	90%	Maximum
New-Order	0.50	0.83	6.31
Payment	0.39	0.73	4.39
Order-Status	0.42	0.75	3.77
Delivery (interactive portion)	0.11	0.11	1.01
Delivery (deferred portion)	0.47	0.72	2.34
Stock-Level	1.89	2.53	7.03
Menu	0.13	0.12	3.43

### Transaction Mix, in percent of total transaction

New-Order	44.78%
Payment	43.12%
Order-Status	4.04%
Delivery	4.03%
Stock-Level	4.03%

### 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	18.00/0.07	18.01/12.19	18.25/123.20
Payment	3.00/0.00	3.00/12.20	3.15/123.27
Order-Status	2.00/0.00	2.01/10.12	2.12/101.9
Delivery (interactive)	2.00/0.00	2.01/5.12	2.12/50.90
Stock-Level	2.00/0.00	2.01/5.13	2.12/50.90

### Test Duration

Ramp-up time	64.78 minutes
Measurement interval	30 minutes
Transactions (all types) completed during measurement interval	1307918
Ramp down time	25.27 minutes

### Checkpointing

Number of checkpoints	1
Checkpoint interval	30 minutes