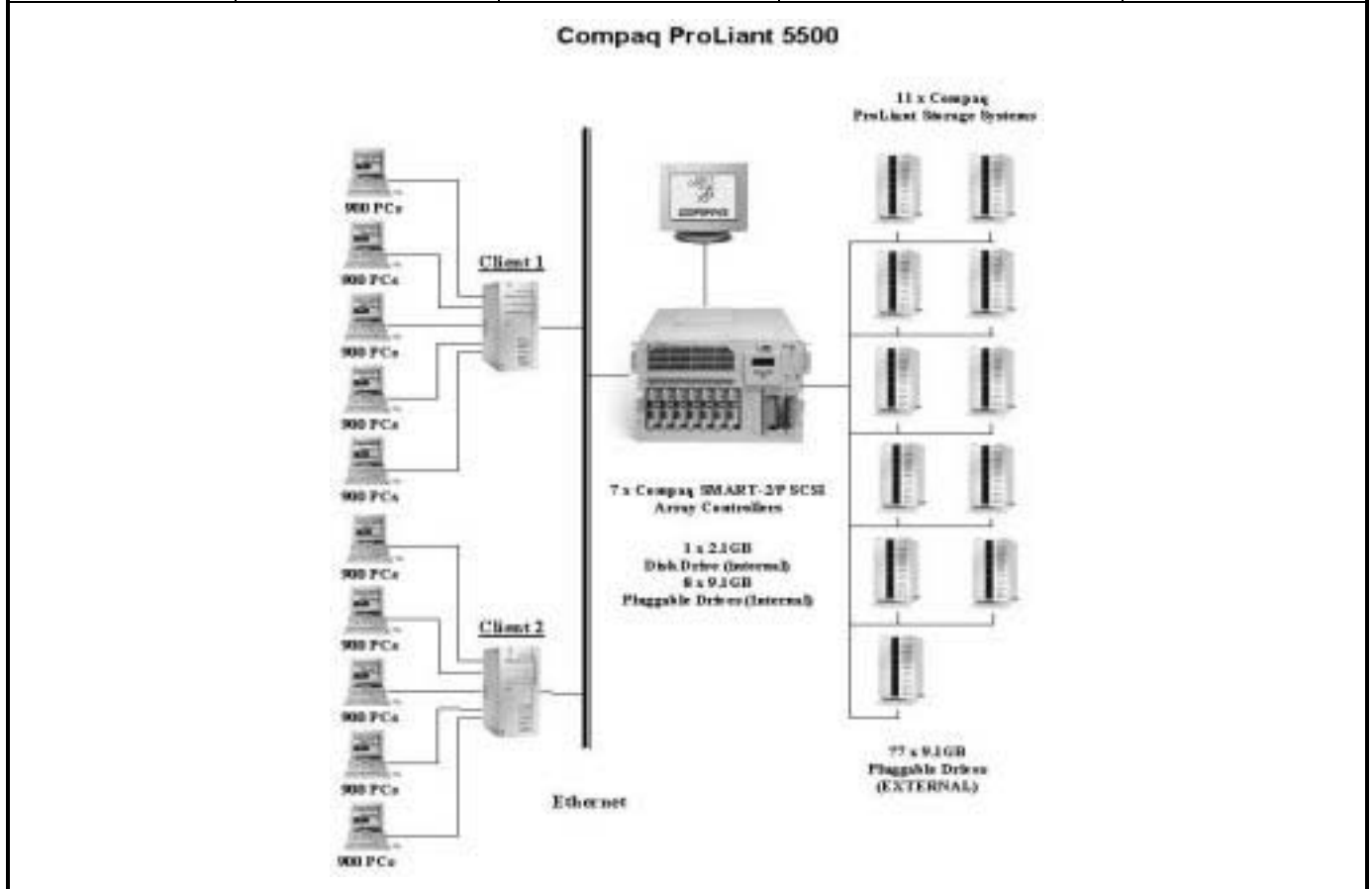


Compaq Computer Corporation		ProLiant 5500 6/200 (4P) C/S with 2 ProLiant 1600		TPC-C Rev. 3.3 Report Date: Feb 9,1998	
Total System Cost		TPC-C Throughput		Price/Performance	
<b>\$351,307</b>		<b>10,526.90</b>		<b>\$33.95</b>	
Processors		Database Manager		Operating System	
4 Pentium®Pro 200 MHz		Microsoft SQL Server 6.5 Enterprise Edition		Windows NT 4.0 Enterprise Edition	
				Other Software	
				Tuxedo 6.3 CFS Microsoft Visual C++ MKS Toolkit for NT Microsoft SQL Toolkit	
				Number of Users	
				<b>9,000</b>	



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	4	200MHz Pentium®Pro w/ 512K Level 2 Cache	2	266MHz Pentium®Pro w/ 256K cache
Memory	1	3072MB	1	192MB
Disk Controllers	7	SMART-2/P SCSI Array Controller	1	Integrated Ultra SCSI Controller
Disk Drives	85	9.1GB SCSI-2 Drive	1	4.3GB SCSI-2 Drive
	1	2.1GB SCSI-2 Drive		
Total Storage		738.1GB		
Tape Drives	1	4/16 TurboDAT		

Compaq Computer Corporation		ProLiant 5500 - 4P		TPC-C REV 3.3		
Client/Server		Report Date:		22-Dec-97		
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price
<b>Server Hardware</b>						
<b>Brand Pricing</b>						
ProLiant 5500	285100-001		8,009	1	8,009	
PentiumPro/200MHz - 512K Cache						
10/100 Ethernet Controller						
2 x Integrated Fast-SCSI-2 Controller						
CD-ROM, SmartStart						
ProLiant Warranty Upgrade	276535-000		1,075	1		1,075
Onsite 5x8 4 Hr Response Maintenance						8,713
6/200 - 512 Processor Expansion Kit	306591-B21		1,613	3	4,838	
512 MB DIMM Kit (2x256 MB)	306541-B21		5,701	6	34,204	
SMART-2DH SCSI Array Controller	295242-B21		2,129	7	14,900	
Enhanced ProLiant Storage System	189600-001		859	11	9,448	
ProLiant Storage Warranty Upgrade	276537-001		430	11		4,730
9.1 GB Pluggable SCSI-2 Drive	313706-B21		1,612	94	151,528	See Note 4
2.1 GB SCSI Disk	142216-001		633	1	633	
Compaq VGA V50 Color Monitor	264150-001		363	1	363	
4/8GB DAT Drive	295353-B21		848	1	848	
<b>Subtotal</b>					<b>224,770</b>	<b>14,518</b>
<b>Server Software</b>						
Microsoft SQL Server 6.5 Enterprise		Microso 1	28,999	1	28,999	10,475
MKS Toolkit for NT			499	1	499	5 Yr. WTY
Microsoft Visual C++ and Subscription Service		Microso 1	499	1	499	Incl Above
Microsoft Windows NT Enterprise v. 4.0		Microso 1	3,999	1	3,999	Incl Above
<b>Subtotal</b>					<b>33,996</b>	<b>10,475</b>
<b>Client Hardware</b>						
ProLiant 1600 6/266 - 64MB, 100TX Nic, 4.3C	292930-001		3,655	2	7,310	
ProLiant Warranty Upgrade	276535-000		1,075	2	0	2,150
Onsite 5x8 4 Hr Response Maintenance						1,732
Pentium II 6/266 Processor Exp. Kit	149027-B21		1,048	2	2,096	
64-Megabyte EDO DIMM Kit	225483-001		522	6	3,135	
Netelligent Dual Port PCI NIC	242559-001		253	4	1,011	
Netelligent 10/100 UTP PCI NIC	169845-001		77	2	155	
Compaq VGA V50 Color Monitor	264150-001		363	2	726	
<b>Subtotal</b>					<b>14,432</b>	<b>3,882</b>
<b>Client Software</b>						
Microsoft Windows NT Server v. 4.0		Microso 1	809	2	1,618	Incl. Above
Microsoft SQL Toolkit		Microso 1	499	1	499	Incl. Above
Tuxedo - NT		BEA 2	3,000	2	6,000	4,500
<b>Subtotal</b>					<b>8,117</b>	<b>4,500</b>
<b>User Connectivity</b>						
COMPEX MicroHub 5 PORT - 100TX Hub	DEH2604	Compe 3	199	3	597	See Note 4
COMPEX MicroHub/8 - 8 Port Hub	DEH2924	Compe 3	34.50	1221	42,125	See Note 4
<b>Subtotal</b>					<b>42,722</b>	<b>0</b>
<b>Total</b>					<b>\$324,037</b>	<b>\$33,375</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: \$357,412</b>		
				<b>tpmC Rating: 10526.90</b>		
				<b>\$ / tpmC: \$33.95</b>		
(Pricing: 1 = Microsoft 2 = BEA 3 = Data Comm Warehouse ) - Note 4 = 5 Year warranty with 10% Spares						
Note: The benchmark results and test methodology were audited by Tom Sawyer of Performance Metrics, Inc.						

## Numerical Quantities Summary

**MQTH, Computed Maximum Qualified Throughput**

**10526.90 tpmC**

% throughput difference, reported & reproducibility runs

.01%

### Response Times (in seconds)

	Average	90%	Maximum
New-Order	1.34	2.17	13.93
Payment	0.77	1.31	4.70
Order-Status	1.05	1.68	6.48
Delivery (interactive portion)	0.69	1.18	3.40
Delivery (deferred portion)	0.82	1.66	4.48
Stock-Level	2.44	3.77	7.69
Menu	0.13	0.15	3.35

### Transaction Mix, in percent of total transaction

New-Order	44.78%
Payment	43.04%
Order-Status	4.07%
Delivery	4.05%
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	18.01/0.00	18.00/12.79	18.39/128.43
Payment	3.01/0.00	3.00/12.79	3.32/128.41
Order-Status	2.01/0.00	2.01/10.77	2.18/107.00
Delivery (interactive)	2.01/0.00	2.01/5.38	2.19/48.30
Stock-Level	2.01/0.00	2.01/5.39	2.20/53.50

### Test Duration

Ramp-up time	121 minutes
Measurement interval	30 minutes
Transactions (all types) completed during measurement interval	701,661
Ramp down time	15 minutes

### Checkpointing

Number of checkpoints	1
Checkpoint interval	30 minutes