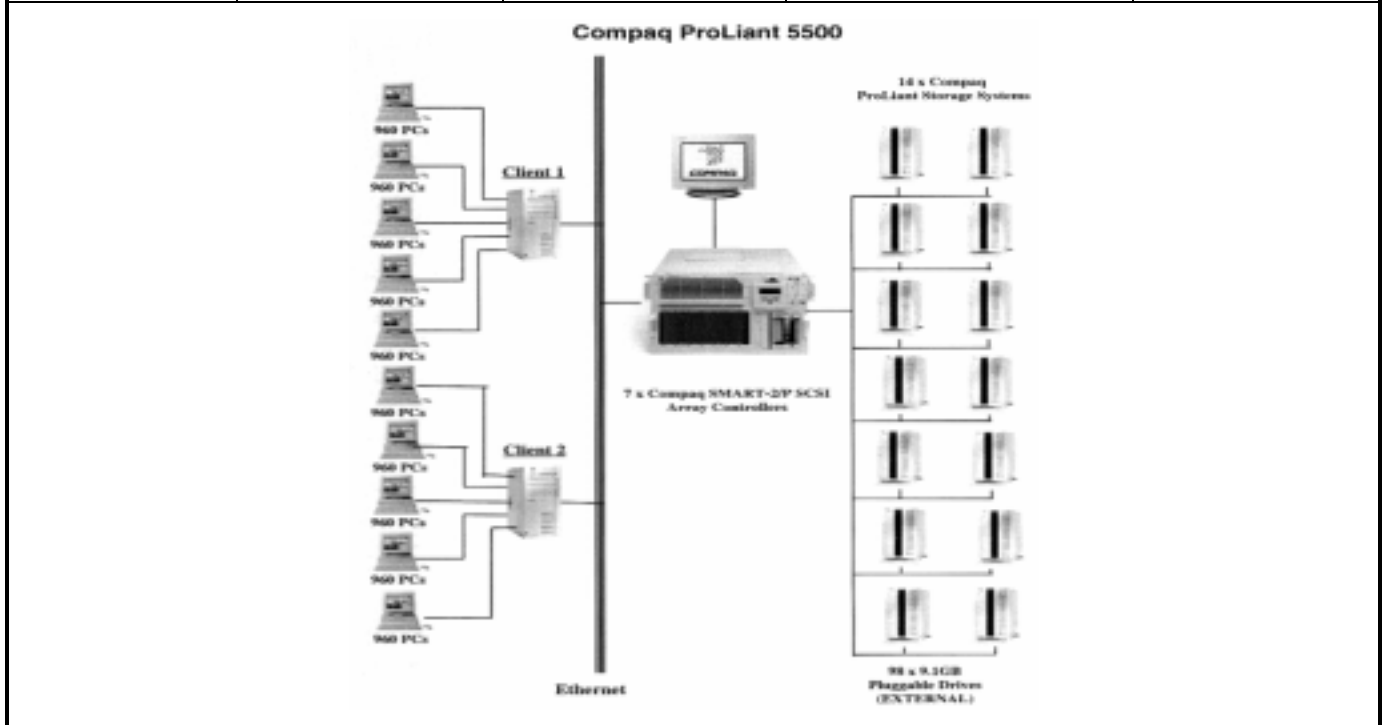


Compaq Computer Corporation	ProLiant 5500 6/200 (4P)	TPC-C Rev. 3.3
	C/S with 2 ProLiant 1600	Report Date: May 8,1998

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
<b>\$312,680</b>	<b>11748.70</b>	<b>\$26.61</b>	<b>May 11, 1998</b>

Processors	Database Manager	Operating System	Other Software	Number of Users
4 Pentium®Pro 200 MHz	Microsoft SQL Server 6.5 Enterprise Edition	Windows NT 4.0 Enterprise Edition	Tuxedo 6.3 CFS Microsoft Visual C++ MKS Toolkit for NT Microsoft SQL Toolkit	<b>9600</b>



System Components	Server		Each Client	
	Quantity	Description	Quantity	Description
Processor	4	200MHz Pentium®Pro w/ 1M Level 2 Cache	2	300MHzPentium®Pro w/ 512K cache
Memory	1	3072MB	1	256MB
Disk Controllers	7	SMART-2/P SCSI Array Controller	1	Integrated Ultra SCSI Controller
Disk Drives	98	9.1GB SCSI-2 Drive	1	4.3GB SCSI-2 Drive
Total Storage		829.962 GB		
Tape Drives	1	4/16 TurboDAT		

Compaq Computer Corporation		ProLiant 5500 - 4P		TPC-C REV 3.3		
		Client/Server		Report Date:	7-May-98	
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price
<b>Server Hardware</b>						
ProLiant 5500 PentiumPro/200MHz - 512K Cache 10/100 Ethernet Controller 2 x Integrated Fast-SCSI-2 Controller CD-ROM, SmartStart	285100-001	Brand Pricing	7,237	1	7,237	
ProLiant Warranty Upgrade Onsite 5x8 4 Hr Response Maintenance	276535-000		1,075	1		1,075 8,340
6/200 - 1MB Processor Expansion Kit	327633-B21		4,945	4	19,780	
512 MB DIMM Kit (2x256 MB)	306541-B21		2,497	6	14,984	
SMART-2DH SCSI Array Controller	295242-B21		1,974	7	13,821	
Enhanced ProLiant Storage System	189600-001		902	14	12,628	
ProLiant Storage Warranty Upgrade	276537-001		430	14		6,020
9.1 GB Pluggable SCSI-3 Drive	313706-B21		1,173	90	105,560	
9.1 GB Pluggable SCSI-3 Drive - 10,000 RPI	304865-B21		1,408	8	11,262	
Compaq VGA V50 Color Monitor	264150-001		265	1	265	
4/8GB DAT Drive	295353-B21		788	1	788	
<b>Subtotal</b>					<b>186,324</b>	<b>15,435</b>
<b>Server Software</b>						
Microsoft SQL Server 6.5 Enterprise		Microsc 1	28,999	1	28,999	10,475
MKS Toolkit for NT			499	1	499	5 Yr WTY
Microsoft Visual C++ and Subscription Service		Microsc 1	499	1	499	Incl Above
Microsoft Windows NT Enterprise v. 4.0		Microsc 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 6/300 - 64MB, 100TX Nic, 4.3C	333550-001		2,895	2	5,790	
ProLiant Warranty Upgrade Onsite 5x8 4 Hr Response Maintenance	276535-000		1,075	2		2,150 1,308
ProLiant 1600 6/300 Processor Option Kit	298047-B21		960	2	1,919	
32-Megabyte EDO DIMM Kit	149023-B21		185	4	739	
64-Megabyte EDO DIMM Kit	149024-B21		362	2	724	
Netelligent Dual Port PCI NIC	242559-001		260	4	1,039	
Netelligent 10/100 UTP PCI NIC	169845-001		80	2	159	
Compaq VGA V50 Color Monitor	264150-001		265	2	530	
<b>Subtotal</b>					<b>10,900</b>	<b>3,458</b>
<b>Client Software</b>						
Microsoft Windows NT Server v. 4.0		Microsc 1	809	2	1,618	Incl. Above
Microsoft SQL Toolkit		Microsc 1	499	1	499	Incl. Above
BEA Tuxedo for 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		181	3	543	See Note 4
LANtech 8-port 10BaseT hub	DEH2648 LANtec 3		29.25	1331	38,932	See Note 4
<b>Subtotal</b>					<b>39,475</b>	<b>0</b>
<b>Total</b>					<b>\$278,812</b>	<b>\$33,868</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: \$312,680</b>  <b>tpmC Rating: 11748.70</b>  <b>\$ / tpmC: \$26.61</b>		
Pricing: 1 = Microsoft 2 = BEA 3 = Data Comm Warehouse } - Note 4 = 5 Year warranty with 10% Spares						
Note: Standard EDO DIMMs from ProLiant 5500 (4x32MB) were utilized in the Client Hardware						
Note: The benchmark results and test methodology were audited by Lorna Livingtree of Performance Metrics, Inc.						

## Numerical Quantities Summary

### MQTH, Computed Maximum Qualified Throughput

**11748.7 tpmC**

% throughput difference, reported & reproducibility runs

0.41%

### Response Times (in seconds)

	<b>Average</b>	<b>90%</b>	<b>Maximum</b>
New-Order	0.81	1.20	147.40
Payment	0.44	0.64	11.71
Order-Status	0.80	1.22	3.48
Delivery (interactive portion)	0.51	0.80	2.28
Delivery (deferred portion)	0.62	0.97	3.34
Stock-Level	1.63	2.74	7.76
Menu	0.11	0.12	6.12

### Transaction Mix, in percent of total transaction

New-Order	44.80%
Payment	43.01%
Order-Status	4.10%
Delivery	4.04%
Stock-Level	4.04%

### Emulation Delay (in seconds)

	<b>Resp.Time</b>	<b>Menu</b>
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)

	<b>Min.</b>	<b>Average</b>	<b>Max.</b>
New-Order	18.01/0.00	18.00/12.19	18.26/122.30
Payment	3.00/0.00	3.00/12.19	3.12/123.06
Order-Status	2.01/0.00	2.01/10.29	2.10/102.6
Delivery (interactive)	2.01/0.00	2.01/5.18	2.11/50.90
Stock-Level	2.01/0.00	2.01/5.08	2.11/47.40

### Test Duration

Ramp-up time	101 minutes
Measurement interval	30 minutes
Transactions (all types) completed during measurement interval	778809
Ramp down time	5 minutes

### Checkpointing

Number of checkpoints	1
Checkpoint interval	30 minutes