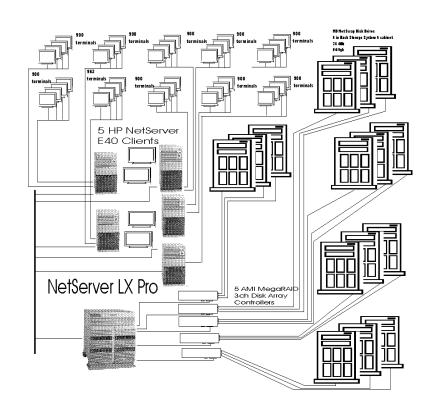
Hewlett- Packard Co.	l Client/Serve	TPC-C® Rev 3.3  Report Date:  March 12, 1998		
Total System Cost	TPC-C® T	hroughput	Price/Performance	Availability Date
\$376,291	10505.97 tpmC <sub>®</sub>		\$35.82 / tpmC <sub>®</sub>	November 30, 1997
Processors	Database Manager	Operating System	Other Software	Number of Users
4 Intel Pentium Pro 200MHz	Microsoft SQL Server v. 6.5 Enter- prise Edition	Microsoft NT Server 4.0 Enter- prise Edition	Microsoft C++ Compiler TUXEDO Transaction Monitor	9000



System Components	Server (LX Pro)		Each Client (E40)			
System Components	Qty	Qty Type		Туре		
Processors	4	200 MHz Intel Pentium Pro	1	200 MHz Intel Pentium Pro		
Cache memory	each	1MB cache		256 KB cache		
Memory	4	GB	256	MB		
Disk Array Con- trollers	5	<b>HP AMI Controllers</b>	1	HP SCSI-2 Controller		
Disk Drives	60	HP Hot-Swap 9G SCSI	1	2 GB Disk		
	36	HP Hot-Swap 4G SCSI				
Total Storage (GB)	684	GB				
Tape Drives	1	DAT Storage System				
Terminals	1	Console terminal	1	Console terminal		

**Hewlett-**Packard Co.

## **NetServer LX Pro**

TPC-C® Rev 3.3

**Report Date:** March 12, 1998

## **Hardware and Software Pricing**

		3d Part	v			Extended	5 Year	
Description	Part Number	Brand	\$	Unit Price	Qty.	Price	Maint. \$	
Server Hardware								
HP NetServer LX Pro 6/200 Model 1	D4311B	HP	1	\$10,171	1	\$10,171		
3 year, on-site, next day warranty	included							
1 200MHz Pentium Pro processor, 64MB memory	included							
12 Hot swap disk bays	included							
Integrated dualPCI F/W SCSI-2cntrlrs&IDEcontrller	included							
Integrtd1024x768 16color 512KB video memory	included							
CD-ROM drive, 3.5-inch, 1.44MB floppy drive	included							
1 parallel, 2 serial ports, keyboard & mouse	included							
3 410W hot-swap power modules & redundant fans	included							
HP NetServer Navigator, HP NetServer Assistant	included							
HP Open View for Windows.	included							
NetServer LX 6/200 Dual Processor card with:	D4966A	HP	2	\$10,495	2	\$20,990		
2 Pentium Pro 200Mhz chips each with 1MB								
L2 cache								
HP 10/100 PCI Network Adaptor	J3171A	HP	1	\$72	1	\$72		
14" VGA Monitor	D2821S	HP	1	\$219	1	\$219		
5 Yr Support(upgds wrnty to same day,4hr)	H5520A+O2A	HP	2				\$5,396	
5 Yr Support - 14" VGA Monitor						1	\$168	
Memory		U subtotal:				\$31,452		
4GB memory board with 512MB	D4967A		1	\$4,425	1	\$4,425		
512 MByte ECC DIMM Memory Module	D4968A	HP	1	\$4,425	7	\$30,975		
Server Storage		ory subtota				\$35,400		
AMI MegaRAID Ultra GT F/W SCSI Ctlr 3chnl inc spare	432110000	AMI	1	\$1,795	7	\$12,565		
InternalSCSIcable(int68-pin-ext68pin)+10% spare	5182-6740	HP	1	\$30	7	\$210		
ExternalSCSIcable(ext68pin-to SS/6) + 10% spare	5182-6737	HP	1	\$55	17	\$935		
HP Storage System/6 + 10% spare	D3604A	HP	1	\$995	17	\$16,915		
HP 9GB SCSI-2 hot swap drives + 10% spares	D4289A	HP	1	\$1,260	66	\$83,160		
HP 4.2 GB SCSI-2hot swap drive+10% spares HP 9GB SCSI-2 disk drive (common tray)	D3583B	HP HP	1	\$735	42	\$30,870		
HP SureStore Tape 6000i 8Gb Internal DAT	D4911A C1528F	HP	1	\$1,260 \$905	1	\$1,260 \$905		
Server Software		torage Sub		\$903	1	\$146,820		
Microsoft Windows NT Server 4. Enterprise Edition0	Server S	MS MS	3	\$3,999	1	\$3,999		
Microsoft SQL Server 6.5 Enterprise Edition		MS	3	\$28,999	1	\$28,999	\$10,475	
Client Hardware	Corvor Co	oftware Sub	_		1	\$32,998	\$10,473	
HP Netserver E40 incl 2.1GB disk & 10/100 NIC	D4934A	HP	1	\$2,079	5	\$10,395		
32 MB SIMMs	D4892A	HP	1	\$2,077	20	\$4,040		
64MB SIMMs	D4290A	HP	1	\$529	10	\$5,290		
HP 10/100 PCI Network Adaptor	J3171A	HP	1	\$72	10	\$720		
14" VGA Monitor	D2821S	HP	1	\$219	5	\$1,095		
5 Yr Support - 14" VGA Monitor	D20210	HP	2	Ψ217		ψ1,075	\$840	
5 Yr Support - E40 SPU w/internal components	H5517A+O2A	HP	2				\$6,930	
Client Software	Client Hardware Subtotals:		:			\$21,540	+	
Windows NT 4.0 Server		MS	1	\$475	5	\$2.375		
SQL Svr Programmer's toolkit		MS	1	\$129	1	\$129		
Tuxedo Run TIme		BEA	4	\$3,000	5	\$15,000	\$11,250	
Tuxedo Developers Kit		BEA	4	\$2,495	1	\$2,495	\$1,871	
Microsoft C++ v. 4.0		MS	1	\$425	1	\$425	. , ,	
Connectivity	Client Software	Subtotals:				\$20,424		
Compex Microhub 6port 100BaseT (incl 2 spares)	MX1205		1	\$189	3	\$567		
Netlux 16port Ethernet Hub (incl 10% spares)	NX-H16ez		5	\$80	627	\$50,160		
<u> </u>	Connectivity S	Subtotals:				\$50,727		
				Total		\$339,361	\$36,930	
Notes:			Five Year Co	ost:	\$376	,291		
1.Support pack H5520A upgrades NetServer 3yr warranty to same day, 4hr response, includes SPU			tpmC Rating	g:	1050	5.97		
internal components (CPUs, mem, NIC, DAT, etc);								
2. NetServer support for yrs 4-5 via HP contract support 02.	A includes all HP com	onents in S	PU.					
\$7 per month for monitors			- ,					
3. Pricing Key: 1=Software House, 2=HP Corporate Price L	ist, 3=Microsoft, 4=BF	EA Systems		\$/tpmC:		\$35	.82	
garage a garage and a garage an	, сы	, 5001115				400		

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 fo 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.

Note: audited by Richard Gimarc of Performance Metrics, Inc.,

## **Numerical Quantities Summary for NetServer LX Pro**

MQTH, Computed Maximum Qualified Throughput 10505.97 tpm $C_{\circledR}$ 

<b>Response Times (in seconds)</b>	90th%-ile	Maximum	Average	
New-Order	2.47	94.13	1.85	
Payment	1.94	56.56	1.44	
Order-Status	3.39	72.01	2.43	
Delivery (interactive portion)	0.40	1.65	0.24	
Delivery (deferred portion)	1.01	3.80	0.72	
Stock-Level	4.78	9.80	2.82	
Menu	0.4	2.28	0.23	

## Transaction Mix, in percent of total transactions

New-Order	44.80%
Payment	43.01%
Order-Status	4.05%
Delivery	4.07%
Stock-Level	4.08%

<b>Keying/Think Times (in seconds)</b>	<b>Keying Time</b>			Think Time			
	Min.	Avg.	Max.	Min.	Avg.	Max.	
New-Order	18.01	18.02	18.14	0.01	12.15	165.45	
Payment	3.01	3.02	3.09	0.01	12.15	175.29	
Order-Status	2.01	2.02	2.08	0.01	10.02	96.27	
Delivery (interactive)	2.01	2.02	2.08	0.01	5.19	67.23	
Stock-Level	2.01	2.02	2.08	0.01	5.14	51.50	