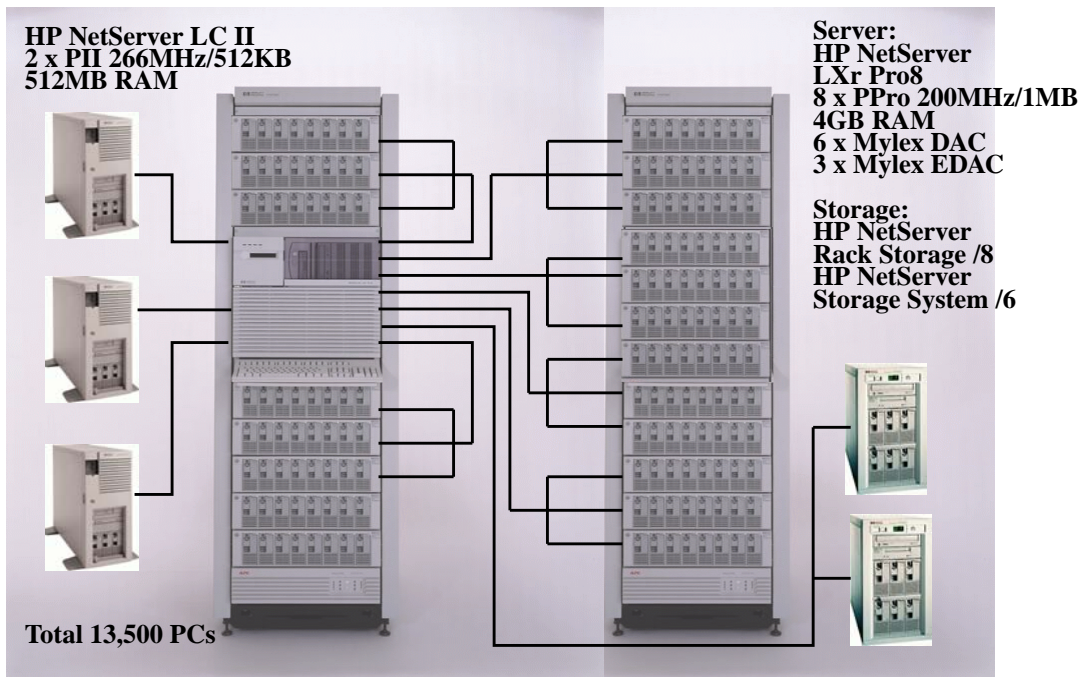



Hewlett-Packard Co.	NetServer LXR Pro8			TPC-C® Rev 3.3
	Client/Server with 3 NetServer LC II Front-Ends			Report Date: March 27, 1998
Total System Cost	TPC-C® Throughput		Price/Performance	Availability Date
\$547,374	16257.20 tpmC®		\$33.67 / tpmC®	January, 1998
Processors	Database Manager	Operating System	Other Software	Number of Users
8 Intel Pentium Pro 200MHz/1MB	Microsoft SQL Server v. 6.5 Enter- prise Edition	Microsoft NT Server 4.0 Enter- prise Edition	Microsoft C++ Compiler TUXEDO Transaction Monitor	13,500



System Components	Server (LXR Pro 8)		Each Client (LC II)	
	Qty	Type	Qty	Type
Processors	8	200 MHz Intel Pentium Pro	2	266 MHz Intel Pentium II
Cache memory	each	1MB cache	each	512 KB cache
Memory	4	GB	512	MB
Disk Array	9	Mylex Disk Array Controller	1	HP SCSI-2 Controller
Controllers				
Disk Drives	107	HP Hot-Swap 9Gbyte SCSI	1	4 Gbyte Disk
	48	HP Hot-Swap 4Gbyte SCSI		
Total Storage (TB)	1.16	TB		
Tape Drives	1	DAT Storage System		
Terminals	1	Console terminal	1	Console terminal

		HP NetServer LXr Pro8 8 way Pentium Pro, 4GB RAM Microsoft Windows NT 4.0 Enterprise, SQL Server 6.5 Enterprise Client/Server				TPC-C Rev. 3.3 Report Date: March 27, 1998			
		Product		Price	Purchase Price		Support Price		
Server Hardware		Number	Brand	Key	Unit Price	Qty	Extended Price	Unit \$/Month	5 Year Support
HP NetServer LXr Pro8 6/200 Model 1		D5028A	HP	1	\$28,260	1	\$28,260		
3 year, on-site, next day warranty									
2 200MHz Pentium Pro processor each w/1MB L2 cache									
256 MB memory									
Integrated dual PCI F/W SCSI-2 cntrlrs									
1024x768 16 color video 512KB video memory									
CD-ROM drive, 3.5-inch, 1.44MB floppy drive									
1 parallel, 2 serial ports, keyboard & mouse									
3 hot-swap power modules & N+1 redundant fans									
HP NetServer Navigator, HP NetServer Assistant									
HP Open View for Windows									
NetServer LX 6/200 Dual Processor card with:			HP						
2 Pentium Pro 200MHz chips each with 1MB L2 cache		D5030A		1	\$11,558	3	\$34,674		
HP 10/100 PCI Network Adaptor		J3171A	HP	1	\$72	1	\$72		
14" VGA Monitor		D2821S	HP	1	\$205	1	\$205		
HP NetServer mini-DIN keyboard and mouse		D4950B/C3751B	HP	1	\$126	1	\$126		
APC Smart UPS 3000NS 208V 3000VA		588293	HP	1	1,740	1	\$1,740		
Power Distribution Unit		E7675A	HP	1	\$169	4	\$676		
Power Cords		E7802A	HP	1	\$46	4	\$184		
2.0 Meter Rack w/side panels and rear door		J1487B	HP	1	\$1,470	2	\$2,940		
HP NetServer Rack installation Kit		D4984B	HP	1	\$54	1	\$54		
5 Yr Support (upgds wrnty to same day, 4 hr)		H5526A+O2A	HP	1, 2					\$6,586
5 Yr Support - 14" VGA Monitor			HP						\$168
SPU Total		\$68,931							
256 MByte ECC DIMM Memory Module		D5026A	HP	1	\$2,310	15	\$34,650		
Memory Total		\$34,650							
Storage									
HP 9GB SCSI-2 hot swap disk + 10% spares		D4289A	HP	1	\$1,229	106	\$130,293		
HP 9GB SCSI-2 hot swap disk + 10% spares		D6019A	HP	1	\$1,675	12	\$20,100		
HP 4.2 GB SCSI-2 hot swap disk + 10% spares		D3583C	HP	1	\$721	53	\$38,201		
HP 9 GB SCSI-2 disk drive (common tray)		D4911A	HP	1	\$1,260	1	\$1,260		
HP Storage System/6 + 10% spares		D3604B	HP	1	\$1,015	5	\$5,075		
HP Rack Storage/8 + 10% spares		D4902A	HP	1	\$2,100	22	\$46,200		
Mylex DACPJ-3-8E F/W SCSI Ctr 3 chnl+ 10% spares		Z75090	Myl	1	\$1,555	8	\$12,440		\$564
64 MB Upgrade to DACPJ-3		ADC64-DAC	Myl	1	\$159	6	\$954		
Mylex EDAC (32MB) + 10% spares		CSxi-5-6	Myl	1	\$3,295	5	\$16,475		
NetRAID 3rd channel SCSI to RS/8		D4983A	HP	1	\$86	9	\$774		
External SCSI cable RS/8 + 10% spare		D3637C	HP	1	\$86	14	\$1,204		
SCSI cable 2.5m		D3636C	HP	1	\$86	9	\$774		
SCSI cable 0.9m		C2911A	HP	1	\$124	4	\$496		
HP SureStore Tape 6000i 8Gb Internal DAT		C1528F	HP	1	\$905	1	\$905		
Storage total		\$34,022							
Server Software									
Microsoft Windows NT Server 4.0 Enterprise Edition		779-00001	MS	1	\$3,345	1	\$3,345		
Microsoft SQL Server 6.5 Enterprise Edition		810-00007	MS	1	\$24,410	1	\$24,410		\$10,475
Server software Total		\$27,755							
Connectivity									
Compex Microhub 6port 100BaseT + 10% spares		MX1205		1	\$189	3	\$567		
Netlux Ethernet Hub, 16-port 10Base-T +10%spares		NX-H16EZ		1	\$75	990	\$74,250		
Connectivity Total		\$74,817							
Client Hardware									
HP NetServer LC II PII/266 Model 4		D5014A	HP	1	\$2,375	3	\$7,125		
HP Pentium II 266 MHz CPU Upgrade		D4995A	HP	1	\$924	3	\$2,772		
128MB DIMMS 60ns with ECC		D4297A	HP	1	\$688	12	\$8,256		
HP NetServer 10/100TX PCI LAN Adapter		D5013A	HP	1	\$83	15	\$1,245		
14" VGA Monitor		D2821S	HP	1	\$205	3	\$615		
5 Yr Support - 14" VGA Monitor			HP	2					\$504
5 Yr Support - LC II SPU and all internal components		H5519A+O2A	HP	1, 2					\$5,664
Client Total		\$20,013							
Client Software									
Windows NT 4.0 Server		ZS750001	MS	1	\$475	3	\$1,425		
Tuxedo Run Time		--	BEA	3	\$3,000	3	\$9,000		\$6,750
Tuxedo Developers Kit		--	BEA	3	\$2,495	1	\$2,495		\$1,871
SQL Svr Programmer's toolkit		ZS750002	MS	1	\$129	1	\$129		
Microsoft C++ v. 4.0		ZS750003	MS	1	\$425	1	\$425		
Client s/w Total		\$13,474							
Net purchase & support prices							\$514,791		\$32,583
Notes:									
1. Support pack H5520A upgrades standard NetServer 3 year warranty to same day, 4-hr response, which includes monitor, disks and SPU internal components, e.g. (memory, NIC, DAC, DAT, etc.) for 3 years.								5 Yr C-O-O	547,374
NetServer support for years 4-5 via HP; contract support (order opt. O2A for 24 months), includes all HP components in SPU. \$7 per month for monitors.								tpmC	16257.20
2. PriceKey: 1=Software house, 2=HP Corporate Price List, 3=BEA Systems								\$/tpmC	\$33.67
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 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.									

Numerical Quantities Summary for NetServer LXr Pro8

MQTH, Computed Maximum Qualified Throughput **16257.20 tpmC[®]**

Response Times (in seconds)	90th%-ile	Maximum	Average
New-Order	1.36	4.98	0.82
Payment	1.11	4.67	0.63
Order-Status	2.79	6.49	1.74
Delivery (interactive portion)	0.70	2.38	0.37
Delivery (deferred portion)	1.30	3.80	0.84
Stock-Level	5.21	8.09	3.45
Menu	0.60	3.59	0.26

Transaction Mix, in percent of total transactions

New-Order	44.83%
Payment	43.06%
Order-Status	4.05%
Delivery	4.03%
Stock-Level	4.03%

Keying/Think Times (in seconds)

	Keying Time			Think Time		
	Min.	Avg.	Max.	Min.	Avg.	Max.
New-Order	18.01	18.02	18.17	0.01	12.13	168.66
Payment	3.01	3.02	3.17	0.01	12.17	174.52
Order-Status	2.01	2.02	2.16	0.01	10.14	107.33
Delivery (interactive)	2.01	2.02	2.16	0.01	5.14	59.96
Stock-Level	2.01	2.02	2.16	0.01	5.18	65.49