

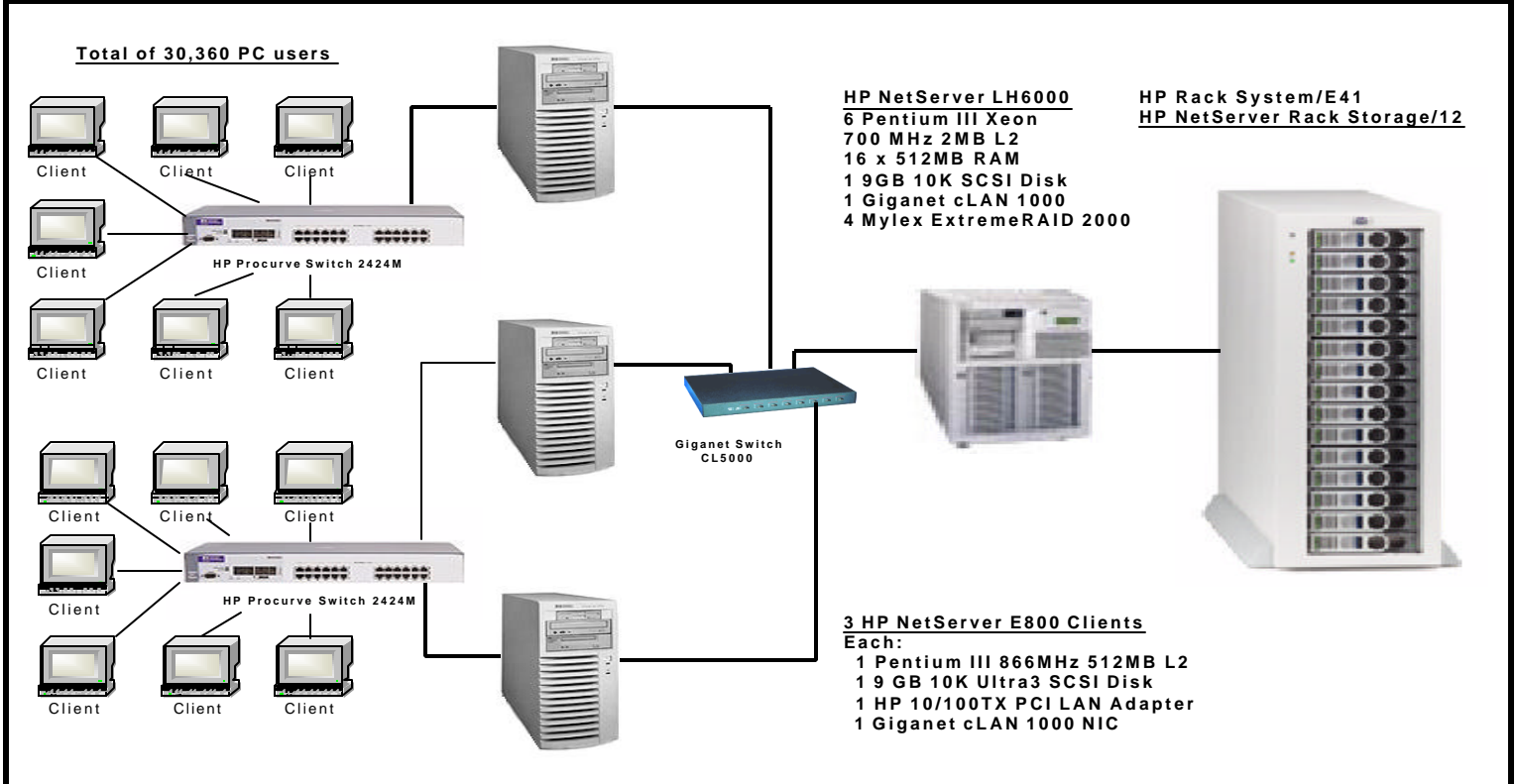


HP Netserver LH 6000 Client/Server

TPC-C Rev 5.0

Report Date:
August 23rd, 2001

Total System Cost	TPC Throughput	Price/Performance	Availability Date	
\$333,572	37596.34 tpmC	\$8.87 per tpmC	August 23rd, 2001	
Processors	Database Manager	Operating System	Other Software	Number of Users
6 Intel Pentium III Xeon 700MHz 2 Mbyte L2	Microsoft SQLServer 2000 Enterprise Edition	Microsoft Windows 2000 Advanced Server	Microsoft Visual C++ Microsoft COM+ Transaction Monitor	30360



System Components	Server		Each Client	
	Qty	Type	Qty	Type
Processors	6	700MHz Intel Pentium III Xeon	1	866MHz Pentium III
Cache Memory	each	2 Mbyte L2 cache		512kbyte L2 Cache
Memory	16	512 Mbyte		512 Mbyte
Disk Controllers	4	Mylex eXtreme2000	1	HP SCSI-2 Controller
Disk Drives	156	HP hot-swap 18GB SCSI	1	9 Gbyte disk
Total Storage		2644.2 Gbyte		8.46 Gbyte
Tape Drives	0	HP Surestore DAT24i		
Terminals	1	Console Terminal	1	Console Terminal



HP Netserver LH 6000 6P/700-2MB/8GB

TPC-C Rev 5.0 Executive Summary
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Report Date: 23-Aug-01

Description	Part Number	Brand	Price Key	Unit Price	Qty	Extended Price	Maint. Price
LH 6000r with six Pentium III Xeon 700MHz 2MB L2 cache	P4583AV		1	18,960	1	18,960	
HP LH 6000 Support Pack, 3 years, 24x7, 4 hour response	H3127A			1,715	1		1,715
512 MB DIMM kit	D8267AV		1	610	16	9,760	
HP 15" Color Monitor	D8896A		1	144	1	144	
HP NetServer mini-DIN keyboard and mouse	D4950B/C3751B		1	79	1	79	
HP 9GB 10K HotSwap Wide Ultra2 SCSI Disk	P1168A		1	262	1	262	
HP Rack System/E41 (41 Units usable space)	J1500A		1	1,590	1	1,590	
HP Power Distribution Unit 120-240V	E5929A		1	234	2	468	
HP SureStore DAT24i Internal Tape Drive	C1555D		1	759	1	759	
Mylex eXtremeRAID 2000 (incl. spares)	E2000-4-32ME	Mylex	1	1,872	6	11,232	
Giganet cLAN-1000 Host Adaptor	cLAN-1000	Emulex	2	795	1	795	
Giganet cLAN 2M Cable	cLAN-A0211	Emulex	2	95	1	95	
Giganet cLAN-5000 8-port Switch (incl. spares)	cLAN-5000	Emulex	2	6,250	3	18,750	
APC Smart-UPS 3000 (incl. spares)	588293	APC	1	1,340	3	4,020	
Server Hardware Subtotal						66,914	1,715
HP Netserver Rack Storage/12	D5989B		1	1,890	13	24,570	
HP RS/12 Support Pack, 3 years, 24x7, 4 hour response	H5513A			1,450	13		18,850
HP SCSI Cable 2.5m UDHTS 68/HDTS 68	D6020A		1	84	13	1,092	
HP 18GB, 15krpm Hot-swap disk module	D9421A		1	669	156	104,364	
Storage Subtotal						130,026	18,850
Microsoft SQL Server 2000 Enterprise Edition (per processor)	810-00846	MS	1	14,869	6	89,214	6,285
Microsoft Windows 2000 Advanced Server	C10-00475	MS	1	2,160	1	2,160	
Server Software Subtotal						91,374	6,285
HP Netserver E800 Pentium III 866MHz	P2457A		1	832	3	2,496	
HP E800 Support Pack, 3 years, 24x7, 4 hour response	H4636E			745	3		2,235
128MB DRAMs for E800	D8265A		1	157	12	1,884	
HP 9GB 10K Ultra3 SCSI Disk	P1214A		1	167	3	501	
HP 15" Color Monitor	D8896A		1	144	3	432	
Giganet cLAN-1000 Host Adaptor (incl. spares)	cLAN-1000	Emulex	2	795	5	3,975	
Giganet cLAN 2M Cable (incl. spares)	cLAN-A0211	Emulex	2	95	5	475	
Client Hardware Subtotal						9,763	2,235
Microsoft Windows 2000 Server	C11-00016	MS	1	839	3	2,517	
Microsoft Visual C++	716856	MS	1	449	1	449	
Client Software Subtotal						2,966	0
HP Procurve Switch 2424M (incl. spares)	J4093A		1	861	4	3,444	
Connectivity Subtotal						3,444	0
Total						\$304,487	\$29,085

Notes: Price key: 1 = Software House, 2 = Emulex

5-yr Cost of Ownership: \$333,572

tpmC: 37,596.34

Audited by Performance Metrics Inc.

\$/tpmC: \$8.87

Prices used in TPC benchmarks reflect 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 HP Netserver LH 6000

MQTH, Computed Maximum Qualified Throughput **37,596.34 tpmC**

Response Times (in seconds)

	90th %-ile	Maximum	Average
New-Order	1.37s	15.20s	0.64s
Payment	1.24s	14.52s	0.52s
Order-Status	1.28s	11.13s	0.56s
Delivery (interactive portion)	0.11s	3.75s	0.11s
Delivery (deferred portion)	0.63s	5.99s	0.37s
Stock-Level	2.75s	12.37s	1.66s
Menu	0.11s	3.91s	0.11s

Response time delay added for emulated components 0.1 seconds

Transaction Mix, in percent of total transactions

New-Order	44.91%
Payment	43.03%
Delivery	4.01%
Stock-Level	4.02%
Order-Status	4.03%

Keying/Think Times

	Keying Time			Think Time		
	Min	Avg	Max	Min	Avg	Max
New-Order	18s	18.01s	18.03s	0s	12.06s	120.5s
Payment	3s	3.02s	3.03s	0s	12.04s	120.5s
Order-Status	2s	2.02s	2.03s	0s	10.05s	100.5s
Delivery (interactive)	2s	2.02s	2.03s	0s	5.05s	50.5s
Stock-Level	2s	2.02s	2.03s	0s	5.05s	50.5s

Test Duration

Ramp up time	72 minutes
Measurement interval	120 minutes
Transactions during measurement interval	10,449,438
Ramp down time	3 minutes

Checkpointing

Number of checkpoints in measurement interval	4
Checkpoint Interval	30 minutes