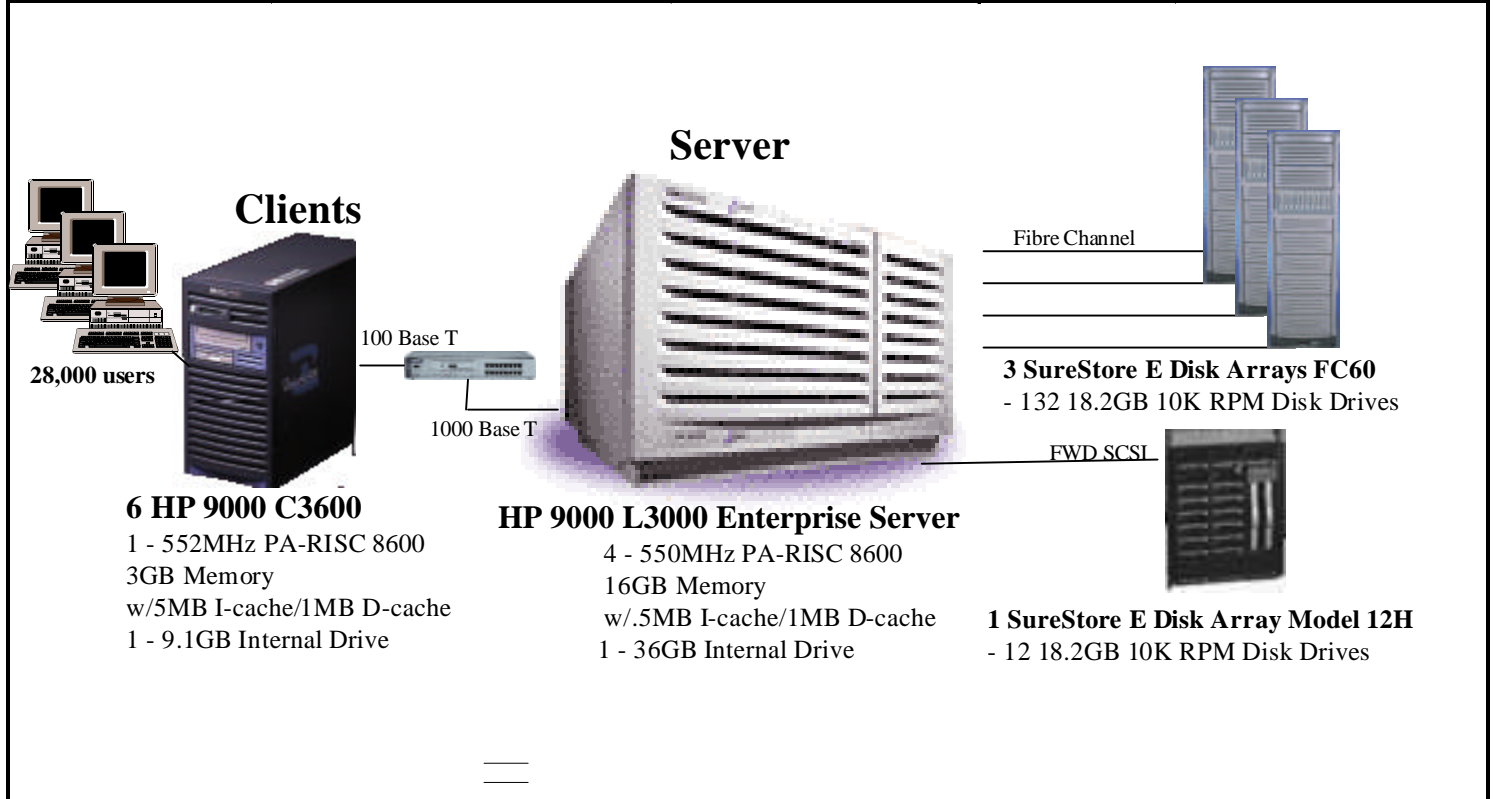
	HP 9000 L3000 Enterprise Server			TPC-C Revision 3.5
				Report Date: April 5, 2001
Total System Cost	TPC Throughput	Price/Performance		Availability Date
\$716,135	34,288.77 tpmC	\$20.89/tpmC		Now
Processors	Database Manager	Operating System	Other Software	Number of Users
4 PA-RISC 8600 550MHz	Sybase Adaptive Server Enterprise 12.0	HP-UX 11.0 64-bit Extension Pack 9911	TUXEDO 6.4	28,000



System Components	Server (HP 9000 L3000 Enterprise Server)		Each Client (6 C3600)	
	Qty	Type	Qty	Type
Processors	4	550MHz PA-RISC 8600	1	552MHz PA-RISC 8600
Cache Memory	each	0.5 MB I-cache, 1 MB D-cache	each	0.5 MB I-cache/1 MB D-cac
Memory	16	GB	1	3 GB
Disk Controllers	6	HP-PCI Fibre Channel	1	FWD SCSI-2
Disk Drives	1	36GB Internal Drive	1	9.1 GB disk
	3	SureStore Disk Array FC60 with 132 18.2 10K RPM drives		
	1	SureStore Disk Array Model 12H with 12 18.2 10K RPM drives		
Total Storage	2,455	GB		
Tape Drives	1	DVD ROM		
Terminals	1	Console Terminal		



invent



HP 9000 L3000 Enterprise Server

TPC-C Rev 3.5

Report Date: April 5, 2001

Description	Part Number	Brand	Price Key	Unit Price	Qty	Extended Price	5 Yr. Maint. Price
Server Hardware							
HP 9000 L3000 Enterprise Server	A6144A		1	13,043	1	13,043	11,219
Add'l 550 MHz PA-RISC 8600 CPUs	A6146A		1	10,041	4	40,164	12,081
Memory Carrier	A6155A		1	2,869	2	5,738	
2 GB Memory	A6115A		1	16,875	8	135,000	
Processor Support Module	A5796A		1	761	2	1,523	
Dual Port Ultra 2 SCSI	A5150 Opt. 0D1		1	1,260	1	1,260	
36 GB Internal Disk	A6110A		1	2,603	1	2,603	
Rack Installation Kit	A5170A, Opt. 0D1		1	308	1	308	
PCI Fibre Channel Adapter	A5158A, Opt. 0D1		1	1,646	6	9,878	
PCI 1000BT Lan Adapter	A4926A, Opt. 0D1		1	1,680	1	1,680	
HP Smart 2U Storage Enclosure	C4317A		1	338	1	338	
DVD-ROM	C4318SZ, Opt. 108		1	487	1	487	
.5m 68pin SCSI Terminator	C4318SZ, Opt. 001		1	74	1	74	
WSE 68pin SCSI Terminator	C4318SZ, Opt. 835		1	34	1	34	
HP-UX 11.0 Sys Media, CD-ROM	B3920EA, Opt. AAF		1	390	1	390	
5.5 kVA HP UPS Rackmount	A3589B, Opt. 0D1		1	7,500	3	22,500	4,382
1.25m Field Integrated Cabinet	A4900A		1	1,583	1	1,583	
SureStore E Disk Array Model 12H	A3700A		1	4,665	1	4,665	7,746
Two 96 MB controllers with Auto Raid	Opt. 203		1	14,070	1	14,070	
18.2 GB disk modules, 10K RPM (10% spare)	A3714A		1	1,500	14	21,000	
SureStore E Disk Array FC60	A5277A		1	3,870	3	11,610	4,770
HP Rack System/E33 Inc. Rear & Foot	A4901A		1	1,680	3	5,040	
Dual Controllers	A5277A, Opt 204		1	24,060	3	72,180	
SureStore E Disk System SC10	A5294A		1	4,800	17	81,600	
16m Fibre Channel Cable	A5277A, Opt AFY		1	120	6	720	
18.2GB 10K RPM Disk Drive (10% spare)	A5282A		1	1,500	146	219,000	
				Subtotal		666,484	40,198
Server Software							
Sybase Enterprise Adaptive Server 12.0	Runtime		2		1	34,995	28,000
				Subtotal		34,995	28,000
Client Hardware							
Hewlett Packard Model C3600 Workstation	A5992		1	6,900	6	41,400	31,050
512 MB Memory Module	A4995A, Opt. OD1		1	1,725	6	10,350	
1GB Memory Module	A6016A, Opt. OD1		1	2,250	12	27,000	
700/96 Console	C1064GX		1	413	1	413	
100BaseT PCI Lan Adapter	B5509AA		1	205	6	1,229	
9.1GB LVD 10K RPM Disk	A4997A, Opt. OD1		1	619	6	3,713	
				Subtotal		84,104	31,050
Client Software							
HP C/ANSI C Compiler	B3901BA, Option AH0		1	1,200	1	1,200	1,757
BEA Tuxedo 6.4		Bea Sys.	3	3,000	6	18,000	14,400
				Subtotal		19,200	16,157
User Connectivity							
(17+1) port 10Mbps Ethernet Hub, + spares	CT1017D1	I-Market	4	33	1,941	64,053	
HP ProCurve Switch 1600M	J4120A		1	1,199	1	1,199	588
HP ProCurve Switch Gigabit-SX Module	J4113A		1	1,124	1	1,124	
HP ProCurve Switch 1408	J4097A		1	149	8	1,194	
				Subtotal		67,571	588
				Large Configuration and Prepayment Support		(251,768)	(20,443)
				Total		620,585	95,550
Notes:1=SolarCom, 2=Sybase 3=BEA Systems, 4=I-Market						Five Year Cost of Ownership:	
Audited by Tom Sawyer, Performance Metrics, Inc.						tpmC Rating:	
						\$/tpmC:	
						\$716,135	
						34,288.77	
						\$20.89	

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 9000 L3000 Enterprise Server

MQTH, Computed Maximum Qualified Throughput

34,288.77 tpmC

Response Times (in seconds)

	90th %-ile	Maximum	Average
New-Order	1.48s	5.73s	0.93s
Payment	1.42s	5.59s	0.87s
Order-Status	1.47s	4.37s	0.91s
Delivery (interactive portion)	0.08s	0.17s	0.08s
Delivery (deferred portion)	1.81s	5.60s	1.25s
Stock-Level	1.76s	5.65s	1.01s
Menu	0.10s	0.54s	0.002s

Transaction Mix, in percent of total transactions

New-Order	44.80%
Payment	43.03%
Order-Status	4.07%
Delivery	4.06%
Stock-Level	4.04%

Keying/Think Times

	Keying Time			Think Time		
	Min	Avg	Max	Min	Avg	Max
New-Order	18.02s	18.03s	18.08s	0.01s	12.12s	158.51s
Payment	3.01s	3.02s	3.07s	0.01s	12.07s	160.33s
Order-Status	2.01s	2.02s	2.03s	0.01s	10.2s	131.59s
Delivery (interactive)	2.01s	2.02s	2.05s	0.01s	5.05s	65.88s
Stock-Level	2.01s	2.02s	2.07s	0.01s	5.08s	76.21s

Test Duration

Ramp up time	32 minutes
Measurement interval	30 minutes
Transactions during measurement interval	2,296,275
Ramp down time	4.34 minutes

Checkpointing

Number of checkpoints in measurement interval	2
Checkpoint Interval	30 minutes

Reproducibility Run

Throughput	33,666.83 tpmC
Relative to MQTH	-1.81%