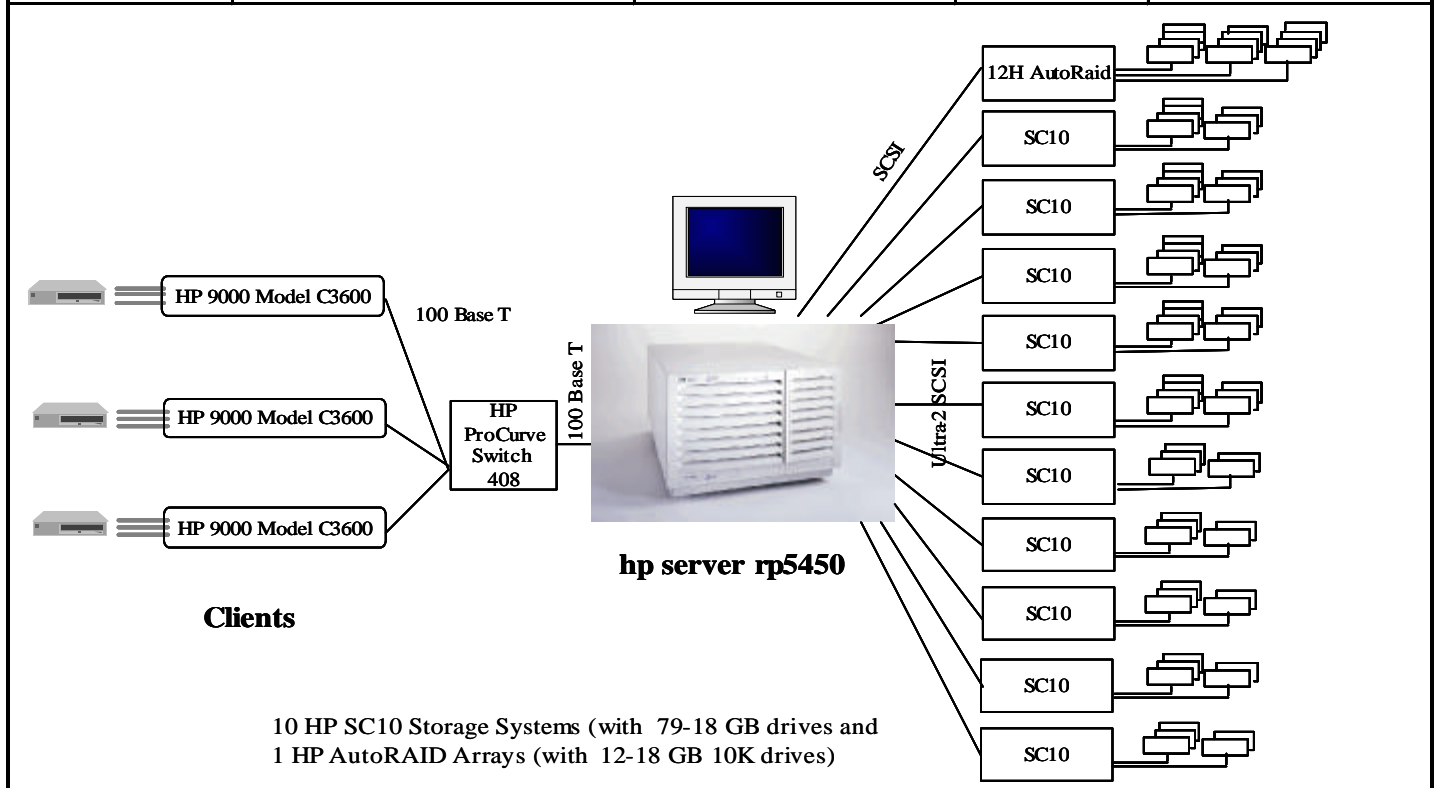
	hp server rp5450 Client/Server with 3 C3600 front-ends			TPC-C Revision 5
				Report Date: January 9, 2002
Total System Cost	TPC Throughput	Price/Performance		Availability Date
\$311,704	22,422.50 tpmC	\$13.90/tpmC		January 27, 2000
Processors	Database Manager	Operating System	Other Software	Number of Users
4 PA-RISC 8500 440MHz	Sybase Adaptive Server Enterprise 11.9.3	HP-UX 11.00 64-bit Extension Pack 9911	TUXEDO 6.4	18,180



System Components	Server (hp server rp5450)		Each Client (3 C3600)	
	Qty	Type	Qty	Type
Processors	4	440MHz PA-RISC 8500	1	552MHz PA-RISC 8600
Cache Memory	each	512 KB I-cache, 1 MB D-cache	each	0.5 MB I-cache/1 MB D-cache
Memory	8	GB	1	3 GB
Disk Controllers	5	Dual Port Ultra-2 SCSI	1	FWD SCSI-2
	1	FW SCSI Adapter	1	9 GB LVD 10K RPM disk
Disk Drives	10	HP SC10 Storage System (79 18 GB drives)		
	1	HP Model 12H Auto Raid (12 18 GB 10K drives)		
Total Storage	2,496	GB		
Tape Drives	1	DDS Storage System		
Terminals	1	Console Terminal		



hp server rp5450

TPC-C Rev 5

Report Date: January 9, 2002

Description	Part Number	Brand	Price Key	Unit Price	Qty	Price	3 Yr. Maint. Price
Server Hardware							
hp server xp5450	A5191B			11,900	1	11,900	9,357
Add'l 440 MHz PARISC 8500 CPUs	A5522A			6,181	4	24,724	8,128
1 GB Memory	A5798A			4,500	8	36,000	
Processor Support Module	A5796A			995	4	3,980	
36 GB Internal Disk	A6110A			2,900	2	5,800	
Dual port Ultra2 SCSI	A5150A, Opt. 0D1			1,680	5	8,400	
16 Bit FW SCSI Adapter	A3511A, Opt 003			400	1	400	
Internal 12GB DDS-2 DAT Drive	A5558A			970	1	970	
HP-UX 11.0 Sys Media, CD-ROM	B3920EA, Opt AAF			520	1	520	
25 ft cable	J3595A			155	1	155	
6.5 k W UPS Rackmount	A6584A			8,799	1	8,799	
2.0m Field Integrated Cabinet	J1500A			1,900	2	3,800	
Auto Raid Array Model 12	A3700AZ			6,220	1	6,220	6,104
Two 96 MB controllers with Auto Raid	A3700AZ, Opt. 203			18,760	1	18,760	
Five 18 GB 10K disk modules	A3700AZ, Opt.185			7,000	2	14,000	
Four 18 GB 10K disk modules	A3700AZ, Opt.184			5,600	1	5,600	
Megatron base	A5272A			5,050	10	50,500	37,110
Add on BCC	A5282A, Opt. 001			1,200	10	12,000	
18 GB disk modules	A6272A			1,600	79	126,400	
0.9m 68-pin high density male connec.	A3700AZ, Opt 801			120	10	1,200	
Subtotal						340,128	60,699
Server Software							
Sybase Adaptive Server 11.9.3	Runtime	Sybase		34,995	1	34,995	16,800
Subtotal						34,995	16,800
Client Hardware							
Hewlett Packard Model C3600 Workstation	A5992A			11,500	3	20,700	11,643
256 MB memory module SDRAM	A4994A			495	12	10,350	
512 MB memory module SDRAM	A4995A			695	12	20,700	
Console	C1064GX			413	1	413	
100BaseT PCI LAN Adapter	B5509BA			273	3	614	
18 GB LVD 10K RPM Disk	A4998A			595	3	1,856	
Subtotal						54,633	11,643
Client Software							
HP C/ANSI C Compiler	B3901BA, Option AH0			1,600	1	1,600	339
BEA Tuxedo 6.4		Bea Sys.		2,850	3	8,550	6,210
Subtotal						10,150	6,549
User Connectivity							
HP ProCurve Switch 8000M	J4110A			1,699	1	1,699	304
Large Configuration Discount and Support Prepayment						(196,763)	(29,134)
Total						244,843	66,861

Notes: 1=HP, 2=Sybase
3=BEA Systems

Audited by Lorna Livingtree, Performance Metrics, Inc.

Three Year Cost of Ownership:	\$311,704
tpmC Rating:	22,422.50
\$/tpmC:	\$13.90

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 server rp5450

MQTH, Computed Maximum Qualified Throughput

22,422.50 tpmC

Response Times (in seconds)

	90th %-ile	Maximum	Average
New-Order	1.77s	7.80s	0.74s
Payment	1.70s	7.72s	0.68s
Order-Status	1.84s	7.40s	0.79s
Delivery (interactive portion)	0.08s	0.86s	0.07s
Delivery (deferred portion)	1.97s	8.17s	0.94s
Stock-Level	2.34s	7.97s	1.06s
Menu	0.10s	1.24s	0.003s

Transaction Mix, in percent of total transactions

New-Order	44.76%
Payment	43.06%
Order-Status	4.07%
Delivery	4.05%
Stock-Level	4.06%

Keying/Think Times

	Keying Time			Think Time		
	Min	Avg	Max	Min	Avg	Max
New-Order	18.02s	18.03s	18.05s	0.01s	12.12s	186.2s
Payment	3.01s	3.02s	3.05s	0.01s	12.07s	160.59s
Order-Status	2.01s	2.02s	2.02s	0.01s	10.16s	116.5s
Delivery (interactive)	2.01s	2.02s	2.02s	0.02s	5.02s	77.46s
Stock-Level	2.01s	2.02s	2.03s	0.01s	5.04s	47.93s

Test Duration

Ramp up time	30 minutes
Measurement interval	30 minutes
Transactions during measurement interval	1,502,996
Ramp down time	4.3298 minutes

Checkpointing

Number of checkpoints in measurement interval	1
Checkpoint Interval	30 minutes

Reproducibility Run

Throughput	22,419.77 tpmC
Relative to MQTH	-0.01%