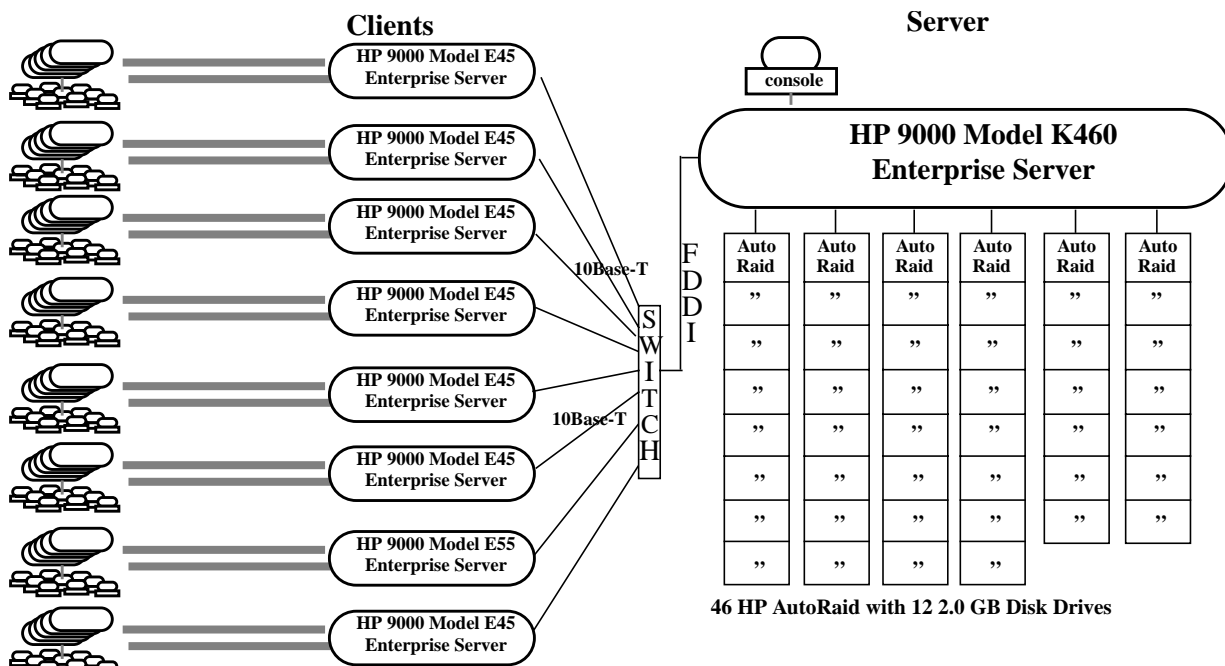


Hewlett-Packard Co.	HP 9000 Model K460 Enterprise Server Client/Server with 8 E series front-ends		TPC-C® Rev 3.2.1
			Report Date: February 27, 1997.
Total System Cost	TPC-C® Throughput		Price/Performance
\$1,949,237	14,739.03 tpmC®		\$132.25 / tpmC®
Processors	Database Manager	Operating System	Other Software
4 PA-RISC 8000 180 MHz	Sybase SQL Server Version 11.0.3	HP-UX 10.10 and HP-UX 10.30	TUXEDO Transaction Monitor
			Availability Date
			June 1997* *HW: now SW: June 1997
			Number of Users
			12,240



System Components	Server (K460)		Clients (E45s and E55)	
	Qty	Type	Qty	Type
Processors	4	180 MHz PA-RISC 8000 1 MB I-cache, 1MB D-cache	7	80 MHz PA-RISC 7100LC
Memory	1	4 GB	1	96 MHz PA-RISC 7100LC
Disk Controllers	6	HP-HSC FWD SCSI-2	8	512 MB
Disk Drives	46	HP AutoRAID with 12 2 GB Disks	8	HP-PB SE SCSI-2
Total Storage (GB)	919	GB	8	1 GB Disk
Tape Drives	1	DDS Storage System		
Terminals	1	Console terminal	8	Console terminal

Hardware and Software Pricing

Description	Part Number	3d Party		Unit Price	Qty.	Extended Price	5 Year Maint. \$
		Brand	\$				
Server Hardware							
Hewlett Packard 9000 Model K460	A3284A		1	51,757	1	51,757	36,441
Upgrade base memory to 256 MB	A3294A		1	6,935	1	6,935	
Additional Processors	A3261A		1	14,600	3	43,800	
HP-UX Sys. Media, CD-ROM, Mat'ls	B3920AA, Opt. AAF		1	380	1	380	
256 MB ECC Memory Board	A3483A, Opt. 0D1		1	6,541	15	98,115	
2.0 GB DAT Storage System (internal)	C2478SZ, Opt. 0DZ		1	1,110	1	1,110	
700/96 Console	C1064GX		1	393	1	393	216
Memory Carrier	A2992A, Opt. 0D1		1	3,614	1	3,614	
Add 4 HP-HSC slots	A2990A, Opt. 0D1		1	5,840	1	5,840	
FDDI Interface Card	J2157A Opt. AU3		1	4,157	1	4,157	
HP-HSC Fast/Wide Differential SCSI Int.	A2969A, Opt. 0D1		1	945	5	4,725	
20 GB Auto Raid disk Array	A3516A		1	8,437	46	388,102	198,107
Twelve 2 GB disk modules	Opt. 112		1	7,880	46	362,480	
1.4 kVA UPS Rackmount	A2996A Opt. 002		1	1,925	23	44,275	7,949
2m Field Integrated Cabinet	C2787A		1	1,460	23	33,580	
Fast/Wide SCSI Interface Cable(2.5m)	C2924A		1	102	6	612	
Fast/Wide SCSI Interface Cable(0.9m)	C2911A		1	88	40	3,520	
Subtotal						1,053,395	242,713
Server Software							
Sybase V11.0.3	Runtime	Sybase	2	150,000	1	150,000	128,316
Sybase development		Sybase	2	9,600	1	9,600	
Sybase open client		Sybase	2	795	1	795	
Sybase discount		Sybase	2			-8,020	
Subtotal						152,375	128,316
Client Hardware							
Hewlett Packard 9000 Model E45 Client	A3130AW		1	6,570	7	45,990	10,684
Hewlett Packard 9000 Model E55 Client	A3194AW		1	8,176	1	\$8,176	1,880
650 MB CD-ROM	A3184A		1	478	8	3824	3,456
Console	C1064GX		1	393	8	3,144	1,728
1 GB internal disk	A3304A, Opt. 0DZ		1	913	8	7,304	9,677
8 RS-232 modem ports	A2442A, Opt. 0DU		1	219	8	1,752	
LAN/9000 Interface Card	J2146A Opt. 0DM		1	840	16	13,440	
128 MB Memory Module	A3131A, Opt. 0DZ		1	1,789	32	57,248	
Subtotal						140,878	27,425
Client Software							
HP C/ANSI C Compiler	B2412A, Opt. AH0		1	1,150	1	1,150	1,931
BEA Tuxedo 6.2		Bea Sys.	3	3,000	8	24,000	21,000
Subtotal						25,150	22,931
User Connectivity							
HTI Ultra Slimline 24 Port Hub, 52 spares	DEH1477	Data W.	4	240	564	135,360	0
LANPLEX 2500 Chassis	3C250100	3COM	5	6,095	1	6,095	5,484
8-port I0 base T module	3C201000	3COM	5	2,800	1	2,800	2,520
FDDI module	3C200100	3COM	5	1,995	1	1,995	1,800
Subtotal						146,250	9,804
Total						1,518,048	431,189
Notes:							
1=Sun Data Corporation 2=Sybase 3=BEA Systems, 4=Telesyn, 5=3COM				Five Year Cost:		1,949,237	
				tpmC Rating:		14,739.03	
				\$/tpmC:		132.25	

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. 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.

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