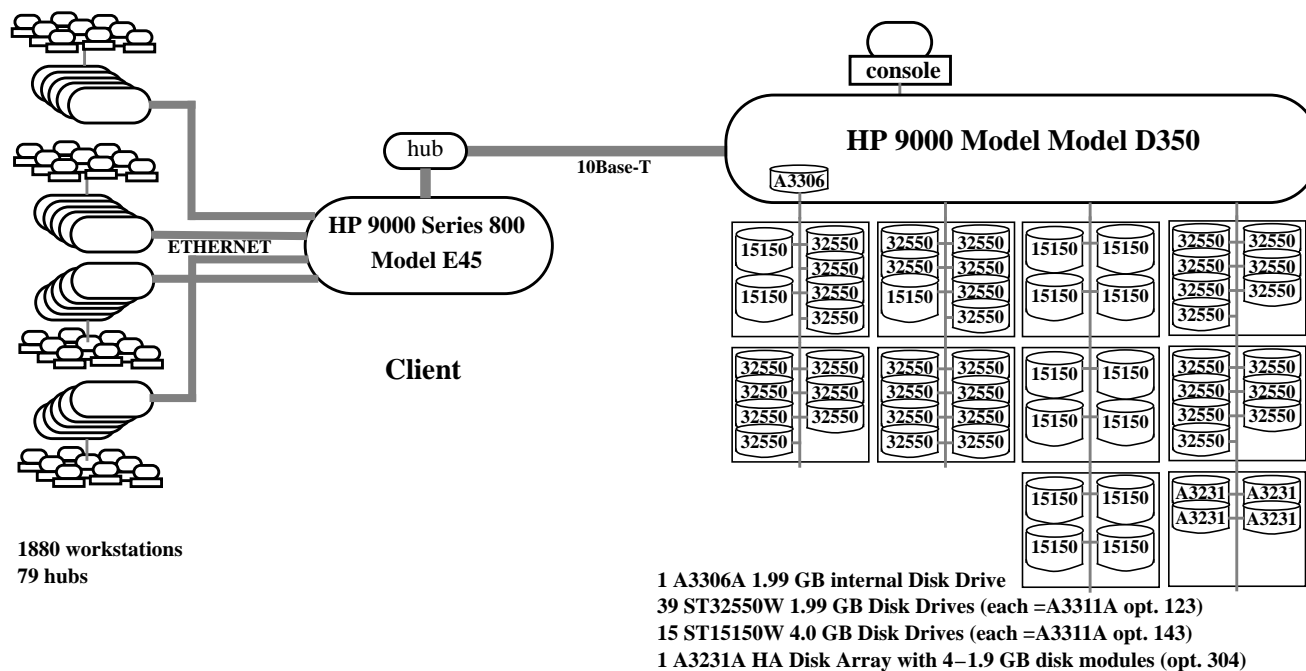


Hewlett-Packard Co.	HP 9000 Model D350 Client/Server with 1 Model E45 front-end		TPC-C [®] Rev 3.0
			Report Date: January 22, 1996.
Total System Cost	TPC-C [®] Throughput		Price/Performance
\$441,137	2280.17 tpmC[®]		\$193 per tpmC[®]
Processors	Database Manager	Operating System	Other Software
2 PA-RISC 7200 100 MHz	Sybase SQL Server Version 11.0	Server HP-UX 10.10 Client HP-UX 10.01	iTi TUXEDO Transaction Monitor
			Number of Users
			1880



System Components	Server (D350)		Each Client (E45)	
	Qty	Type	Qty	Type
Processors	2	100 MHz PA-RISC 7200	1	80 MHz 7100LC
Cache memory	each	256 KB I-cache 256 KB D-cache		256 KB combined external cache
Memory (MB)	768	MB	512	MB
Disk Controllers	4	HP-HSC FWD SCSI-2	1	HP-PB SE SCSI-2
Disk Drives	40	1.99 GB Disks	1	A3304A (2 GB) Disk
	15	4.0 GB Disks		
	1	High Availability Disk Array		
Total Storage (GB)	143.3	GB		
Tape Drives	1	DDS Storage System		
Terminals	1	Console terminal	1	Console terminal

Hardware and Software Pricing

Description	Part Number	Unit Price	Quantity	Extended Price	5 Year Service
Hewlett Packard 9000 Model D350/2	A3335A	\$29,290	1	\$29,290	\$10,224
Hardware & Software Support, Year 1	Option 0S3				2,738
HP-UX System Media on CD-ROM, Mat'ls	B3920AA, Option AAF	520	1	520	
Add 128 MB ECC Memory Board	A3027A, Option 0D1	8,320	5	41,600	
2.0 GB DAT Storage System (internal)	C2478SZ, Option 0DZ	1,750	1	1,750	1,344
700/96 Console	C1064GX	539	1	539	336
add 2GB half-height FWD (internal)	A3306A	1,600	1	1,600	1,344
HP-HSC Fast/Wide Differential SCSI Int.	A2969A, Option 0D1	1,195	4	4,780	
Mini Tower Enclosure	A3311A	1,000	9	9,000	4,320
Support, Year 1	Option 0S3				1,080
2 GB Fast/Wide SCSI Expansion Disk, 4 spares	Option #123	1,600	43	68,800	26,832
4 GB Fast/Wide SCSI Disks, 2 spares	Option #143	2,400	17	40,800	11,424
High Avail. disk array Model 10	A3231A	12,500	1	12,500	6,720
Support, Year 1	Option 0S3				672
Four 2.0 GB disk modules for HA disk Model 10	Option 304	8,240	1	8,240	
8 MB Write-Cache Option for HA disk Model 10	Option 508	7,040	1	7,040	
Fast/Wide SCSI Interface Cable	C2924A	120	10	1,200	
TOTAL SERVER COST				\$227,659	\$67,034
Hewlett Packard 9000 Model E45	A3061A	8,000	1	8,000	1,248
Hardware & Software Support, Year 1	Option 0S3				576
650 MB CD-ROM	A3184A	655	1	655	528
2 GB internal disk	A3304A	1,500	1	1,500	1,344
700/96 Console	C1064GX	539	1	539	336
HP C/ANSI C Compiler	B2412A, Option AH0	1,575	1	1,575	1,920
Support, Year 1	Option 0S3				225
HP-PB slot upgrade	A2943A option 0DZ	2,000	1	2,000	
LAN/9000 Interface Card	J2146A Option 0DM	1,150	4	4,600	
128 MB Memory Module	A3131A, Option 0DZ	8,320	4	33,280	
TOTAL CLIENT COST				\$52,149	\$6,177
HP HW/SW/Support Subtotal				\$279,808	\$73,211
20% Support Prepay Disc.					(14,642)
TOTAL HP HW/SOFTWARE/SUPPORT				\$279,808	\$58,569
HTI Ultra slimline 24 Port Hub	DEH1477	280	88	24,640	
Sybase RDBMS		34,995	1	34,995	30,000
TUXEDO TP Monitor		7,500	1	7,500	5,625
TOTAL THIRD-PARTY COST				\$63,135	\$35,625
TOTAL HW/SOFTWARE/SUPPORT				\$346,943	\$94,194
Five (5) Year Cost of Ownership	\$441,137				
tpmC-Local	2280.17				
\$/tpmC	\$193				

Note: audited by Lorna Livingtree, under subcontract to Performance Paradigm, Inc.