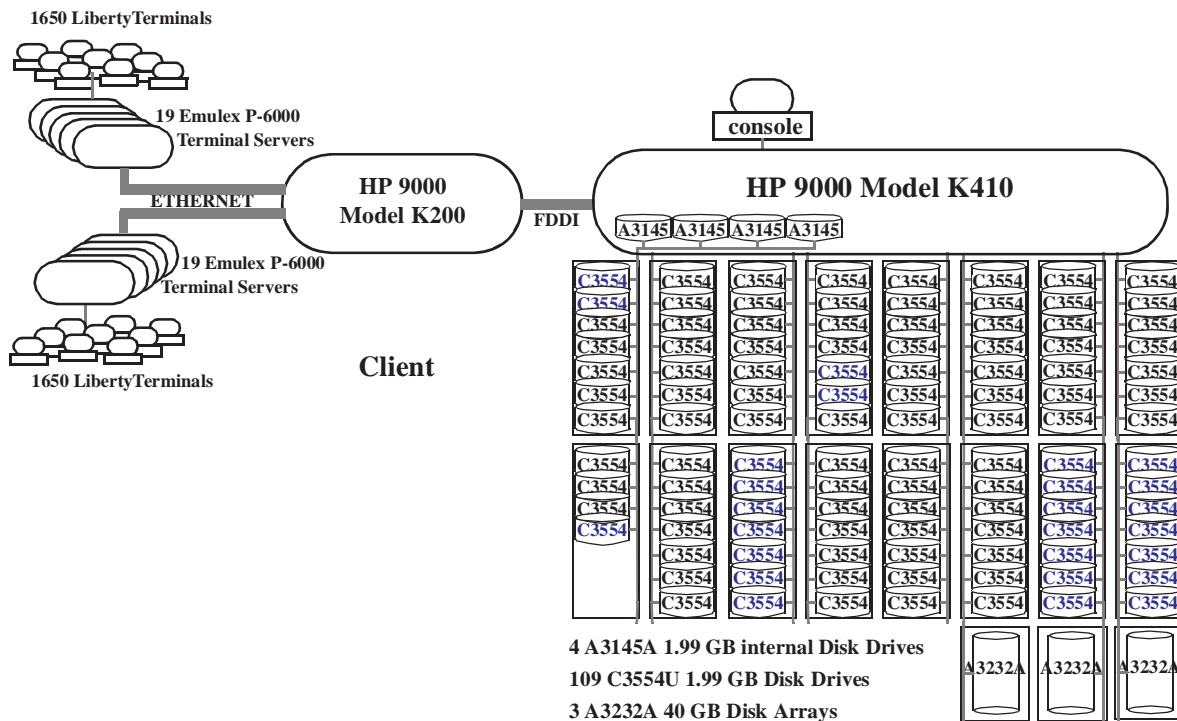


Hewlett-Packard Co. & Oracle Corp.	HP 9000 Model K410 C/S with one Model K200 front end		TPC-C Rev 3.0
			Report Date: September 22, 1995.
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$1,384,763	3809.46 tpmC	\$364 per tpmC	Feb. 28, 1996.
Processors	Database Manager	Operating System	Other Software
4 PA-RISC 7200 120 MHz	Oracle7 v. 7.3	HP-UX 10.01	IMC Tuxedo ETP /T Transaction Monitor version 4.1
			Number of Users
			3300



System Components	Server (K410)		Client (K200)	
	Qty	Type	Qty	Type
Processors	4	120 MHz PA-RISC 7200	2	100 MHz PA-RISC 7200
Cache memory	each	2 KB D on-chip; 512 KB ID off-chip	each	2 KB D on-chip; 512 KB ID off-chip
Memory (MB)	2048	MB	640	MB
Disk Controllers	6	HP-HSC FWD SCSI-2	1	HP-PB SE SCSI-2
	2	HP-PB FWD SCSI-2		
Disk Drives	4	A3145A 1.99 GB internal Disks	2	C2247M1 0.98 GB Disk
	109	C3554U 1.99 GB Disks		
	3	A3232A 40GB Disk Arrays		
Total Storage (GB)	340.97	GB	1.96	GB
Terminals	1	Console terminal	3300	User terminals, 1 Console terminal
Terminal Servers			38	Emulex P6000 terminal servers

Hewlett-Packard Co. & Oracle Corp.	HP 9000 Model K410		TPC-C Rev 3.0		
			Report Date: September 22, 1995.		
Hardware and Software Pricing					
Description	Part Number	Unit Price	Quantity	Extended Price	5 Year Service
Hewlett Packard 9000 Model K410	A3283A	65,150	1	65,150	22,272
Additional Processors	A2995A	15,000	3	45,000	3,888
Hardware & Software Support, Year 1	Option 0S3				7,524
HP-UX System Media on CD-ROM, Mat'ls	B3920AA, Option AAF	840	1	520	
Add 128 MB ECC Memory Board	A3027A, Option 0D1	9,600	15	144,000	
2.0 GB DAT Storage System (internal)	C2478SZ, Option 0DZ	1,750	1	1,750	2,448
700/96 Console	C1064GX	539	1	539	
Memory Carrier	A2992A, Option 0D1	5,950	1	5,950	
add 4 HP-HSC slots	A2990A, Option 0D1	8,000	1	8,000	
LAN/9000 Link	J2146A	1,150	1	1,150	
add 2GB half-height FWD (internal)	A3145A	1,870	4	7,480	
HP-HSC Fast/Wide Differential SCSI Interface	A2969A, Option 0D1	1,295	5	6,475	
HP-PB Fast/Wide Differential SCSI Interface	28696A, Option 0DZ	1,295	3	3,885	
I/O Expansion slot upgrade for 4 HP-PB slots	A3185A Option 0DZ	4,000	1	4,000	
FDDI Interface Card	J2157A Option AU3	5,695	1	5,695	
4 GB Fast/Wide SCSI Mini-Tower	C3551T, Option 002	5,970	16	95,520	39,936
Support, Year 1	Option 0S3				3,920
2 GB Fast/Wide SCSI Expansion Disk	C3554U, Option 002	1,870	77	143,990	92,400
Support, Year 1	Option 0S3				8,473
40 GB High Availability Disk Array	A3232A opt 320	57,500	3	172,500	40,320
Support, Year 1	Option 0S3				4,032
Fast/Wide SCSI Interface Cable	C2924A	140	9	1,260	
=TOTAL SERVER COST				<u>\$712,864</u>	<u>\$225,213</u>
Hewlett Packard 9000 Model K200 Client	A3061A	36,250	1	36,250	4,800
Additional processor	A2993A	10,000	1	10,000	
Hardware & Software Support, Year 1	Option 0S3				3,240
HP-UX Unlimited User License	B3919AA, Option AGS	12,000	1	12,000	4,320
Console	C1064GX	539	1	539	
1 GB internal disk	A3058A, Option 0DZ	1,000	2	2,000	
HP C/ANSI C Compiler	B2412A, Option AH0	3,750	1	3,750	1,920
Support, Year 1	Option 0S3				225
FDDI Interface Card	J2157A Option AU2	4,495	1	4,495	
LAN/9000 Interface Card	J2146A Option 0DM	1,150	1	1,150	
128 MB Memory Module	A3131A, Option 0DZ	8,320	4	33,280	
=TOTAL CLIENT COST				<u>\$103,464</u>	<u>\$14,505</u>
=HP HW/SW/SUPPORT SUBTOTAL				<u>\$816,328</u>	<u>\$239,718</u>
9% Volume, 20% Support Prepaym't Discount				(73,470)	(47,944)
=TOTAL HP HARDWARE/SOFTWARE/SUPPORT				<u>\$742,858</u>	<u>\$191,774</u>
Terminal Servers - Base Unit (4 Spares)	Emulex P6000/BNC	2,040	42	85,680	incl.
Terminal Servers - 8-Port Cards (42 Spares)	Emulex PE6008J	180	456	82,080	incl.
=TOTAL PRICED TERMINAL COMPONENT				<u>\$167,760</u>	<u>\$0</u>
Oracle RDBMS & SQL*Net		168,500	1	168,500	151,650
Oracle 20% discount				(33,700)	(30,330)
IMC TUXEDO ETP Transaction Monitor		15,000	1	15,000	11,250
=TOTAL THIRD PARTY COST				<u>\$149,800</u>	<u>\$132,570</u>
=TOTALS: HARDWARE/SOFTWARE/SUPPORT				<u>\$1,060,418</u>	<u>\$324,344</u>
Five-Year Cost of Ownership		\$1,384,763			
tpmC		3,809.46			
\$/tpmC		\$364			
Notes: audited by Tom Sawyer and Richard Gimarc, of Performance Metrics, Incorporated					