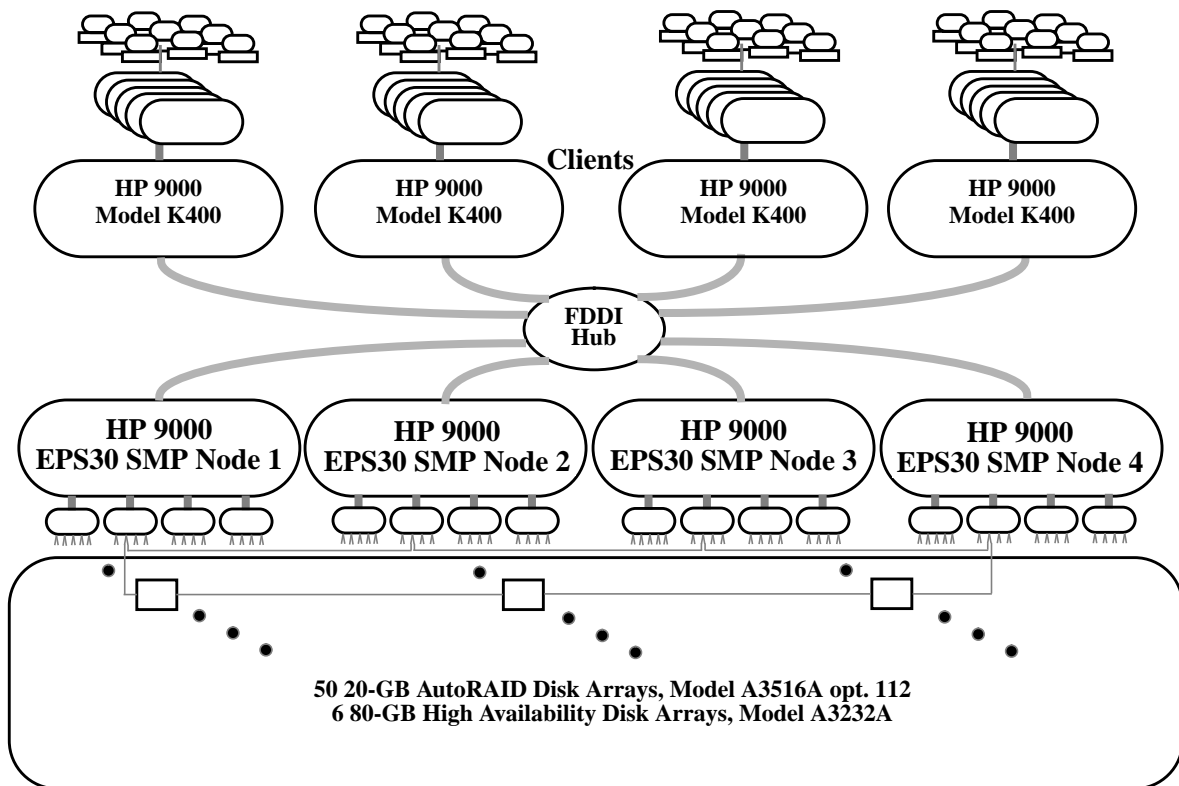


Hewlett-Packard Co. & Oracle Corp.	HP 9000 Enterprise Parallel Server Model EPS30 (4-node) C/S with four Model K400 front-ends		TPC-C Rev 3.0
			Report Date: May 15, 1996
Total System Cost	TPC-C Throughput		Price/Performance
\$7,041,832	17,826.50 tpmC		\$396 per tpmC
Processors	Database Manager	Operating System	Other Software
48 PA-RISC 7150 120 MHz	Oracle7 v. 7.3	HP-UX 10.20	Tuxedo ETP /T Transaction Monitor version 4.1
			Availability Date
			HW: August 30, 1996. SW: November 11, 1996.
			Number of Users
			15,360



System Components	Each EPS30 Server Node of 4		Each Client (K400) of 4	
	Qty	Type	Qty	Type
Processors	12	120 MHz PA-RISC 7150 (per node)	3	100 MHz PA-RISC 7200
Cache memory	each	1MB I-cache, 1MB D-cache	each	256 KB I-cache, 256 KB D-cache
Memory (MB)	2,048	MB (per node)	640	MB
Disk Controllers	18	HP-PB FWD SCSI-2 (per node)	1	HP-HSC FW SCSI-2
Disk Drives (total)	50	20GB AutoRAID Disk Arrays	1	4.0 GB FW SCSI-2 Disk
	6	80GB High Availability Disk Arrays		
Total Storage (GB)	1,468	GB	16	GB (all Clients)

Hardware and Software Pricing					
Description	Part Number	Unit Price	Quant.	Ext. Price	5 Yr. Support
EPS30 Enterprise Parallel Svr. Base Mod.		0	1	0	
EPS30 Enterprise Parallel Svr. Add on Mod.		0	3	0	
EPS30 Frame and Integration	A3450A	5,000	4	20,000	
EPS30 Base SMP Node	A3310A	110,000	1	110,000	96,000
EPS30 Add-on SMP Nodes	A3310A	110,000	3	330,000	288,000
Additional Processors	A3346A	20,000	44	880,000	
Hardware & Software Support, Year 1	Option OS3				34,176
HP-UX System Media on DAT, Mat'ls	B3920AA, Option AAH	995	1	995	960
Support, Year 1	Option OS3				240
HP-UX 10.1 2-User License	B3919AA, Option APH	0	4	0	
DAT Media Option, Unlimited Users	Option AAH	305	1	305	
Add 256 MB ECC Memory Board	A2234AZ, Option 0DZ	30,720	28	860,160	
2.0 GB DAT Storage System	C1520B	2,450	1	2,450	1776
Support, Year 1	Option OS3				172
SCSI Interface Cable for DAT	K2207	49	1	49	
HP-PB I/O Expansion Module	A1828A	10,500	12	126,000	
Dual I/O Bus Adapter	A1829AZ	25,200	4	100,800	
Fast/Wide Differential SCSI Interface	28696A, Option 0DZ	1,295	68	88,060	
F/W SCSI V Cable	28696A Opt. 006	200	34	6,800	
Fast/Wide SCSI Interface Cable	A3401 Opt. 005	50	29	1,450	
2.0 Meter Standalone Cabinet	C2787A	2,000	12	24,000	
FDDI/9000 Adapter	J2157A, Opt. AEP	7,470	4	29,880	7,488
Hardware & Software support, Year 1	Option OS3				960
FDDI/9000 Adapter	J2157A, Opt. UG2	3,500	4	14,000	
MC/Lock Mgr.	B5161AA, Opt. AEP	38,000	4	152,000	123,456
Software Support, Year 1	OS3				14,408
Auto raid disk arrays	A3516A	17,050	50	852,500	612,000
Twelve 2Gb modules	Opt. 112	19,200	50	960,000	
Hardware & Software support, Year 1	Option OS3				51,102
Disk Array Model 20	A3232A	15,000	6	90,000	80,640
Twenty 4.2 GB disks	Opt. 320	35,020	6	210,120	
Hardware & Software Support, Year 1	Option OS3				8,064
EPS MC/System Env. Mgmt. Software	B4771BA Opt. AAU	100	4	400	
HP9000 Model 712/60 Workstation	A4010C	3,890	1	3,890	1,824
Hardware & Software support, Year 1					499
EPS Interconnect package, Base module	A3412A Opt. 001	18,600	1	18,600	
EPS Interconnect package, Add on module	A3412A, Opt. 002	200	3	600	
Terminal Server Mux	A3413A	1,995	1	1,995	
TOTAL SERVER COST				4,885,054	1,321,765
Hewlett Packard 9000 Model K400	A3181B	53,000	4	212,000	101,760
Additional Processors	A2993A	10,000	8	80,000	
Hardware & Software Support, Year 1	Option OS3				21,600
HP-UX System Media on CD-ROM, Mat'ls	B3920AA, Option AAF	520	1	520	
Add 128 MB ECC Memory Board	A3027A, Option 0D1	9,600	16	153,600	
2.0 GB DAT Storage System (internal)	C2478SZ, Option 0DZ	1,520	1	1,520	
LAN/9000 Link	J2146A Opt. ODM	1,150	28	32,200	
4 GB F/W internal disk	A3353A Opt. OD1	2,300	4	9,200	
HP-PB Exp. slot upgrade	A3185A Opt. OD1	4,000	4	16,000	
FDDI/9000 Adapter	J2157A, Opt. AE5	2,195	4	8,780	2,880
Hardware & Software Support, Year 1	Option OS3				960
FDDI/9000 Adapter	J2157A, Opt. UG2	3,500	4	14,000	
TOTAL CLIENT COST				527,820	127,200
HP HW/SW/Support Subtotal				5,412,874	1,448,965
19% Vol. disc. 20% Support Prepay disc.				(1,028,446)	(289,793)
HP Hardware/Software/Support Total				4,384,428	1,159,172
HTI Ultra Slimline 24 Port Hub, 64 spares	DEH1477	310	704	218,240	
Oracle RDBMS		652,774	1	652,774	522,219
BEA Tuxedo Monitor		15,000	4	60,000	45,000
Third Party Total Cost				931,014	567,219
Hardware/Software/Support Totals				\$7,041,832	
Five (5) Year Cost of Ownership	\$7,041,832				
tpmC-Local	17,826.50				
5 Year cost of ownership/tpmC	395.02				
\$/tpmC	\$396				

Notes:

audited by Richard Gimarc, of Performance Metrics, Incorporated