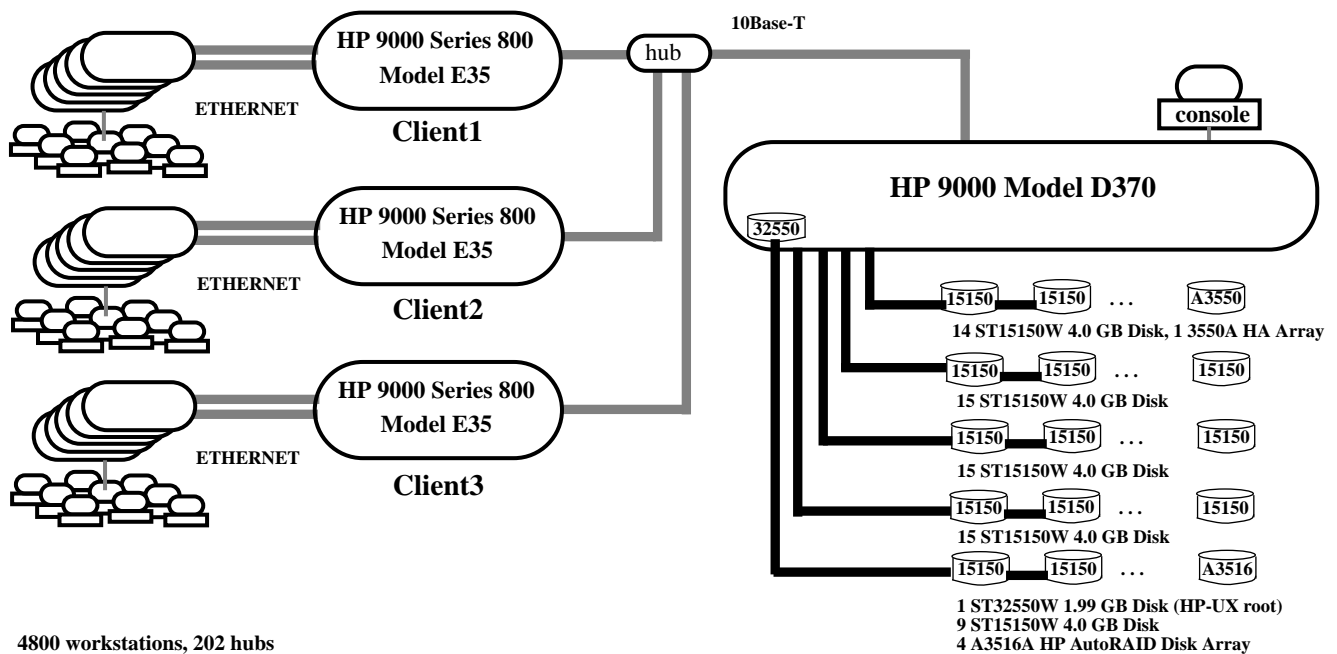


<b>Hewlett-Packard Co.</b>	<b>HP 9000 Model D370 Enterprise Server Client/Server with 3 Model E35 front-ends</b>		TPC-C® Rev 3.2
			Report Date: September 17, 1996 Revised: Aug. 13, 1997
Total System Cost	TPC-C® Throughput	Price/Performance	Availability Date
<b>\$573,624</b>	<b>5822.33 tpmC®</b>	<b>\$98.52 / tpmC®</b>	January 31, 1997.
Processors	Database Manager	Operating System	Other Software
2 PA-RISC 8000 160 MHz	Sybase SQL Server Version 11.0.3	Server HP-UX 10.30 Client HP-UX 10.01	TUXEDO Transaction Monitor
			<b>4800</b>



System Components	Server (D370)		Each Client (E35)	
	Qty	Type	Qty	Type
Processors	2	160 MHz PA-RISC 8000	1	64 MHz 7100LC
Cache memory	each	512KB I-cache 512KB D-cache		256 KB combined external cache
Memory (MB)	1.5	GB	320	MB
Disk Controllers	5	HP-HSC FWD SCSI-2	1	HP-PB SE SCSI-2
Disk Drives	1	1.99 GB Disks	1	2 GB Disk
	68	4.0 GB Disks		
	4	HP AutoRAID with 12 2 GB Disks		
	1	High Availability Disk Array		
Tape Drives	1	DDS Storage System		
Terminals	1	Console terminal	1	Console terminal

Hardware and Software Pricing

Description	Part Number	3rd Party Brand \$	Unit Price	Qty	Extended Price	5 year Maint. \$
<b>Server Hardware</b>						
Hewlett Packard 9000 Model D370	A3562A		26,930	1	26,930	11,119
HP-UX Sys. Media, CD-ROM, Mat'ls	B3920BA, Option AAF		380	1	380	
256 MB ECC Memory Board	A3564A Opt. 0D1		5,475	6	32,850	
4.0 GB DAT Storage System (internal)	A3183A, Option ODZ		1,205	1	1,205	
700/96 Console	C1064GX		393	1	393	151
Add 2GB half-height FWD disk (internal)	A3306A Opt. 0D1		803	1	803	1,253
HP-HSC Fast/Wide Differential SCSI Int.	A4107A Opt. 0D1		872	5	4,360	
Mini Tower Enclosure	A3311A		876	17	14,892	7,344
4GB Fast/Wide SCSI Disks, 7 spares	A3647A		1,046	75	78,450	32,400
20 GB Auto Raid disk Array	A3516A		12,045	4	48,180	25,725
Twelve 2 GB disk modules	Option 112		9,636	4	38,544	
1.3 kVA UPS Rackmount	A2996A Opt. 002		1,825	2	3,650	346
Disk Array Model 20	A3550A		13,505	1	13,505	7,178
64 MB write cache option	Opt. 204		12,717	1	12,717	
Ten 4.2 GB disk modules	Opt. 332		11,680	1	11,680	
Add-on 4.2 GB disk modules	A3396A		1,059	2	2,118	
Fast/Wide SCSI Interface Cable(2.5m)	C2924A		102	5	510	
Fast/Wide SCSI Interface Cable(0.9m)	C2911A		88	18	1,584	
<b>Subtotal</b>					<b>292,751</b>	<b>85,516</b>
<b>Server Software</b>						
Sybase V11.0.3	Runtime	Sybase	34,995	2	34,995	28,636
Open client		Sybase	795	2	795	
<b>Subtotal</b>					<b>35,790</b>	<b>28,636</b>
<b>Client Hardware</b>						
Hewlett Packard 9000 Model E35 Client	A2938AW		4,672	3	14,016	3,672
High-speed CD-ROM Drive	A3715A Opt. 0DZ		365	3	1,095	648
700/96 Console	C1064GX		393	3	1,179	454
2 GB internal disk	A3304A Opt. 0D1		730	3	2,190	1,879
8 RS-232 modem ports	A2442A, Option ODU		219	3	657	
LAN/9000 Interface Card	J2146A Option ODM		840	6	5,040	
64 MB Memory Module	A2948A Option ODZ		2,117	3	6,351	
128 MB Memory Module	A3131A, Option 0DZ		1,789	6	10,734	
<b>Subtotal</b>					<b>41,262</b>	<b>6,653</b>
<b>Client Software</b>						
HP C/ANSI C Compiler	B2412A, Option AH0		1,150	1	1,150	1,886
BEA Tuxedo 4.2		BEA Sys.	4,200	3	12,600	13,860
<b>Subtotal</b>					<b>13,750</b>	<b>15,746</b>
<b>User Connectivity</b>						
ATI Ultra Slimline 24 Port Hub, 21spares	DEH1487/AT3024TR15	A. Telesyn	240	4	240	223
<b>Subtotal</b>					<b>53,520</b>	<b>0</b>
<b>Total</b>					<b>437,073</b>	<b>136,551</b>
<b>Notes:</b>						
1=SunData 2=Sybase, 3=BEA Systems, 4=Data Comm Warehouse					<b>Five Year cost of ownership</b>	<b>573,624</b>
					<b>tpmC Rating</b>	<b>5,822.33</b>
					<b>\$/tpmC</b>	<b>98.52</b>

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,