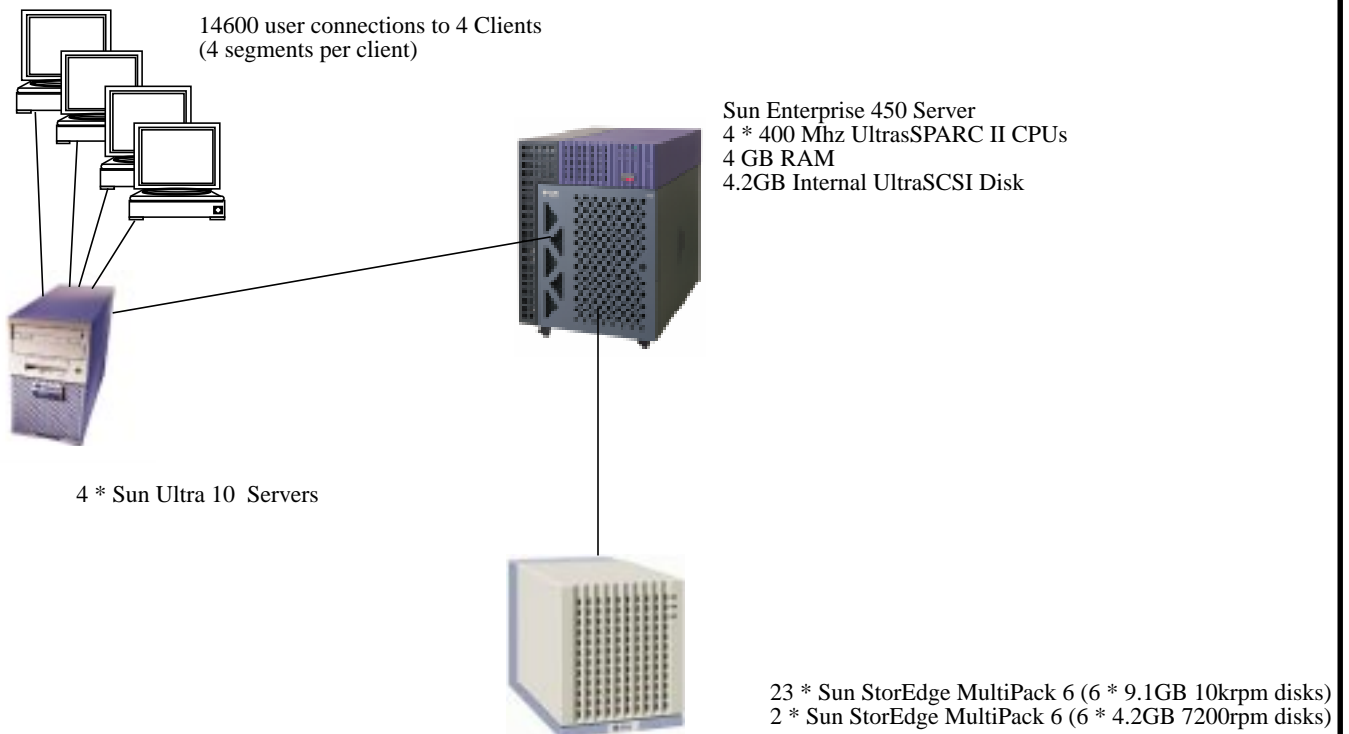


Sun Microsystems		Enterprise 450 Server		TPC-C Rev 3.4
Sybase, Inc.		C/S w/4 Front-Ends		Report Date: 2/2/1999
Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
\$481,381.03		17674.80 tpmC	\$27.24 per tpmC	July 31, 1999
Processors	Database Manager	Operating System	Other Software	Number of Users
4 * 400 MHz UltraSPARC II	Sybase Adaptive Server Enterprise 11.5 EBF 8280	Solaris 2.6	BEA Tuxedo CFS V6.3	14600



System Components

Server System

Front End Systems

Database Nodes:	1 Sun Enterprise 450 Server	4 x Ultra 10 Model 333
Processors	4 x 400 MHz UltraSPARC II	1 x 333 MHz UltraSPARC III each
Cache memory	32KB (D+I), 4MB external	32KB (D+I), 512KB external, each
Main memory	4 GB	1 GB each
Disk controllers	6 x DPT RAID Controllers	1 x SCSI-2 each
Disk Drives	138 x 9.1GB 10krpm 13 x 4.2GB 7200rpm	1 x 4.2GB SCSI-2 each
Total Disk Storage	1294 GB	4.2 GB each
Terminals	1 Console	1 Console each
10 BaseT Hubs	None	1828 x 8-Port Hubs
100 BaseT Hubs	1 x 5-Port Hub	

Part Number	Description	Qty	Source	Unit Price	Extended Price	5 Yr. Total Maintenance
Server Hardware						
A25-BA	Sun Enterprise 450 Server Base	1	1	10323.95	10323.95	7704.00
7005A	512MB memory (2x 256MB DIMMs)	8	1	5460.00	43680.00	0.00
2244A	400MHz UltraSPARC-II CPU, 4MB Ecache	4	1	5915.00	23660.00	0.00
5214A	4.2GB 7200 rpm UltraSCSI disk drive	1	1	659.75	659.75	0.00
WYSE-WY55-A	Wyse55 General Purpose Terminal	1	2	489.00	489.00	0.00
6542A	DPT3755U2B 64Bit PCI HWRAID Card	6	1	2002.00	12012.00	0.00
3830A	SCSI Cable 68 to VHDC	13	1	123.75	1608.75	0.00
3856A	SCSI Cable 68/68 Pin	12	1	40.95	491.40	0.00
SG-XDSK060A-25G	StorEdge MultiPack 6x4.2GB 7200RPM	2	1	4686.50	9373.00	0.00
SG-XDSK060C-54G	StorEdge MultiPack 6x9.1GB 10k rpm	23	1	7416.50	170579.50	0.00
6286A	4mm DDS-3 tape drive	1	1	1132.50	1132.50	0.00
Subtotal					274009.85	7704.00
Client Hardware						
A22UHC1Z9S-B512CP	Sun Ultra10s, 512MB, 333MHz	4	1	5682.95	22731.80	14592.00
X1034A	Quad Ethernet Controller	4	1	1346.25	5385.00	0.00
X7033A	OPT 512MB Memory for Ultra10s	4	1	1633.45	6533.80	0.00
WYSE-WY55-A	Wyse55 General Purpose Terminal	4	2	489.00	1956.00	0.00
Subtotal					36606.60	14592.00
User Connectivity						
NX-H5TXS	5-port 100Mbps Fast Ethernet Hub	3	3	89.00	267.00	0.00
NX-H9EZ	8-port 10Mbps Ethernet Hub With 10% spares	2011	3	30.00	60330.00	0.00
Subtotal					60597.00	0.00
Hardware Subtotal					371213.45	22296.00
Server Software						
SOLMS-26EW9999	SOLARIS 2.6 5/98 ENGLISH SVR	1	2	75.00	75.00	4200.00
WCC-4.2-S	WorkShop Compilers C/C++ 4.2 Slim Kit	1	2	995.00	995.00	969.00
Sybase Adaptive Workplace Server 11.5		1	4	34995.00	34995.00	28000.00
Subtotal					36065.00	33169.00
Client Software						
	Tuxedo CFS Runtime (6.3)	4	5	3000.00	12000.00	9000.00
Subtotal					12000.00	9000.00
Software Subtotal					48065.00	42169.00
Discount						
	Sun 3 year Maintenance Contract Discount (Hardware)			12%		-1313.28
	Yearly prepayment Discount			5%		-1049.14
Total					419,278.45	62,102.58
Service for all Sun products is from Sun Microsystems, Inc.			5Yr. cost		481,381.03	
Service for Sybase products is from Sybase Inc.			tpmC Rating		17,674.80	
Service for Tuxedo is from BEA Systems, Inc.			\$/tpmC		\$27.24	
Source						
1) Cat Technology						
2) Sun Microsystems Inc						
3) NetLux						
4) Sybase Inc						
5) BEA Systems Inc						