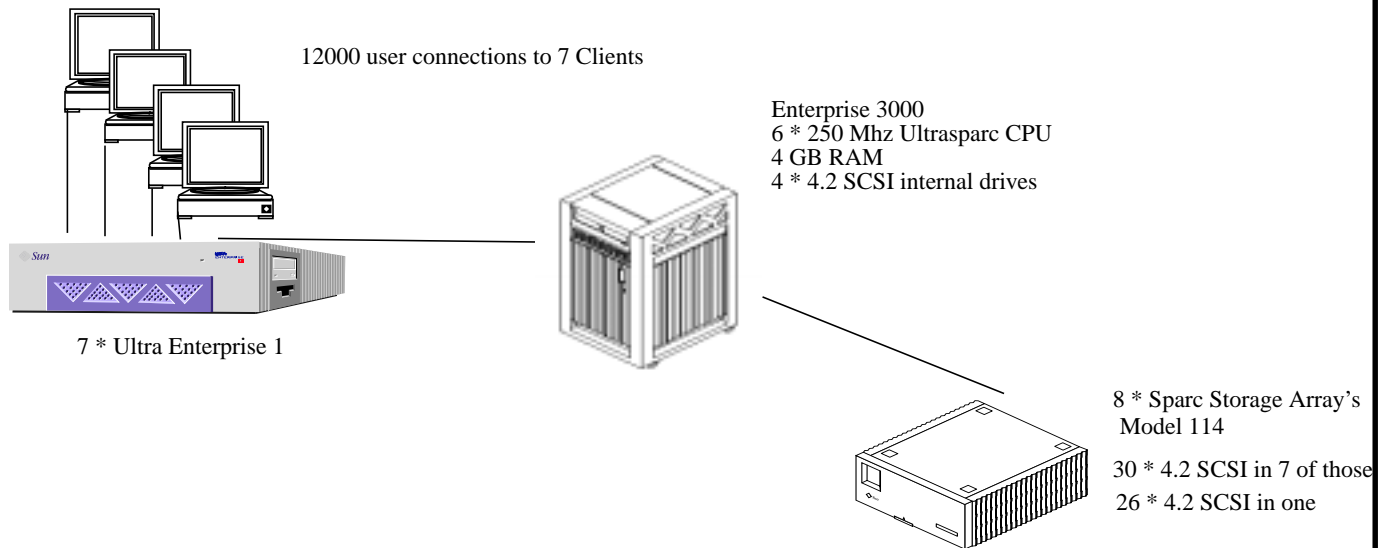


Sun Microsystems		Ultra Enterprise 3000		TPC-C Rev 3.3
Sybase, Inc.		C/S w/7 Front-Ends		Report Date: 09/08/1997
Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
\$1,140,407.01		14587.80 tpmC	\$78.18 per tpmC	Feb 17, 1998
Processors	Database Manager	Operating System	Other Software	Number of Users
6 * 250 MHz UltraSPARC II	Sybase Adaptive Server Enterprise 11.5.0.1	Solaris 2.6	BEA Tuxedo 4.2	12000



System Components

Database Nodes:

Processors

Cache memory

Main memory

Disk controllers

Disk Drives

Total Disk Storage

Terminals

10 BaseT Hubs

100 BaseT Hubs

Server System

1 Ultra Enterprise 3000

6 * 250 MHz UltraSPARC II

32KB (D+I), 4MB external

4 GB

8 * FC25 adapters, 1 SCSI 2

240 * 4.2 GB SCSI

960 GB

1 Console

None

1 x 8-Port Hub

Front End Systems

7 * UltraServer 1 Model 170

1 * 167 MHz UltraSPARC each

32KB (D+I), 512KB external, each

512 MB each

1 * SCSI-2 each

1 * 2.1GB SCSI-2 each

2.1 GB each

1 Console each

1500 x 8-Port Hubs

Part Number	Description	Qty	Unit Price	Extended Price	Maintenance per Mo/Yr	5 Yr. Total Maintenance
Server Hardware						
<i>Pricing from CAT Technology, Inc.</i>						
E3002-C50	E3000 Base Package, 2 250MHz/4MB Eca	1	29,250.00	29,250.00	512.00	27,648.00
2601A	CPU/Memory Board	2	6,750.00	13,500.00	154.00	8,316.00
7023A	1GB ECC memory expansion	4	21,000.00	84,000.00		0.00
2550A	UltraSPARC module,250Mhz, 4MB Ecache	4	14,250.00	57,000.00		0.00
5214A	4.2GB SCSI Internal Disk	4	1,050.00	4,200.00		0.00
2610A	SBus I/O Board	1	4,875.00	4,875.00		0.00
954A	Power/Cooling Module	1	1,350.00	1,350.00		0.00
1057A	FibreChannel/SBus Host Adapter	3	1,200.00	3,600.00		0.00
595A	FibreChannel Optical Module	5	450.00	2,250.00		0.00
956A	Enterprise Expansion Cabinet	2	6,000.00	12,000.00	163.00	8,802.00
967A	SSA Rackmount Acc. Kit	2	0.00	0.00		0.00
6519A	SSA Model 114 w/ 30 4.2 GB Disks	7	44,175.00	309,225.00		0.00
6518A	SSA Model 114 w/ 18 4.2 GB Disks	1	31,125.00	31,125.00		0.00
X5206A	4.2GB FWSCSI Internal Disk	8	1,087.50	8,700.00		0.00
6104A	2.5GB 1/4" Internal Tape Drive	1	675.00	675.00		0.00
X311L	Power Cord Kit - US/Asia	1	0.00	0.00		0.00
Enterprise Server Subtotal:				561,750.00		44,766.00
Client Hardware						
<i>Pricing from CAT Technology, Inc.</i>						
A11-UBA1-9S-064CE	UltraServer 1 Model 170	7	5,621.25	39,348.75	86.00	32,508.00
X1042A	Quad FastEthernet Controler	7	1,496.25	10,473.75		0.00
X7003A	2*64 Mb Simm for UltraServer	28	1,500.00	42,000.00		0.00
UltraServer 1 Subtotal:				91,822.50		32,508.00
User Connectivity						
<i>Terminal Pricing from SunExpress, Hubs from NETLUX.</i>						
SX-WY35-G-G35	Wyse35 Terminal	8	295.00	2,360.00		
NX-H8TX	8-port 100Mbps Fast Ethernet Hub	3	299.00	897.00		
NX-H9+	9-port (8+1) 10Mbps Ethernet Hub With 10% spares	1650	50.00	82,500.00		
Terminals & Connectivity Subtotal:				85,757.00		
ALL HARDWARE SUBTOTALS:				739,329.50		77,274.00
Server and Client Software						
<i>Sun Software Pricing from Sun</i>						
SOLS-C	Solaris Software on CD-ROM	1	100.00	100.00	8.00	456.00
CC-P	SPARC Compiler Single Ushr. License	1	695.00	695.00	20.00	1,140.00
Sun Software Subtotal:				795.00		1,596.00
<i>Sybase Pricing from Sybase Inc.</i>						
	Sybase Adaptive Server Enterprise 11.5	1	150,000.00	150,000.00	24,000.00	120,000.00
	Development license	1	10,000.00	10,000.00	1,600.00	8,000.00
	Sybase Open Client	1	1,000.00	1,000.00		0.00
Sybase Software Subtotal:				161,000.00		128,000.00
Client Software						
<i>Tuxedo Pricing from BEA Systems, Inc.</i>						
	Tuxedo CFS Runtime (4.2)	7	4,200.00	29,400.00	4,410.00	22,050.00
Tuxedo Software Subtotal:				29,400.00		22,050.00
ALL SOFTWARE SUBTOTALS:				191,195.00		151,646.00
Discount						
	Sun 3 year Maintenance Contract Discount (Hardware)		12%			-7,551.36
	Yearly prepayment Discount		5%			-3,486.13
	Sybase Volume Discount		5%			-8,000.00
TOTAL HARDWARE & SOFTWARE COST (5YR)						1,140,407.01
PRICE PER TPMC						78.18

Sun hardware has 1-year warranty bundled.
During the warranty period, maintenance is discounted 50%
for parts that require an upgrade to their standard warranty
Maintenance prices for Sybase and Tuxedo are yearly rates.

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. Special prices based on assumptions about past or future purchases 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.

Note : audited by Tom Sawyer and Richard Gimarc of Performance Metrics, Inc.,