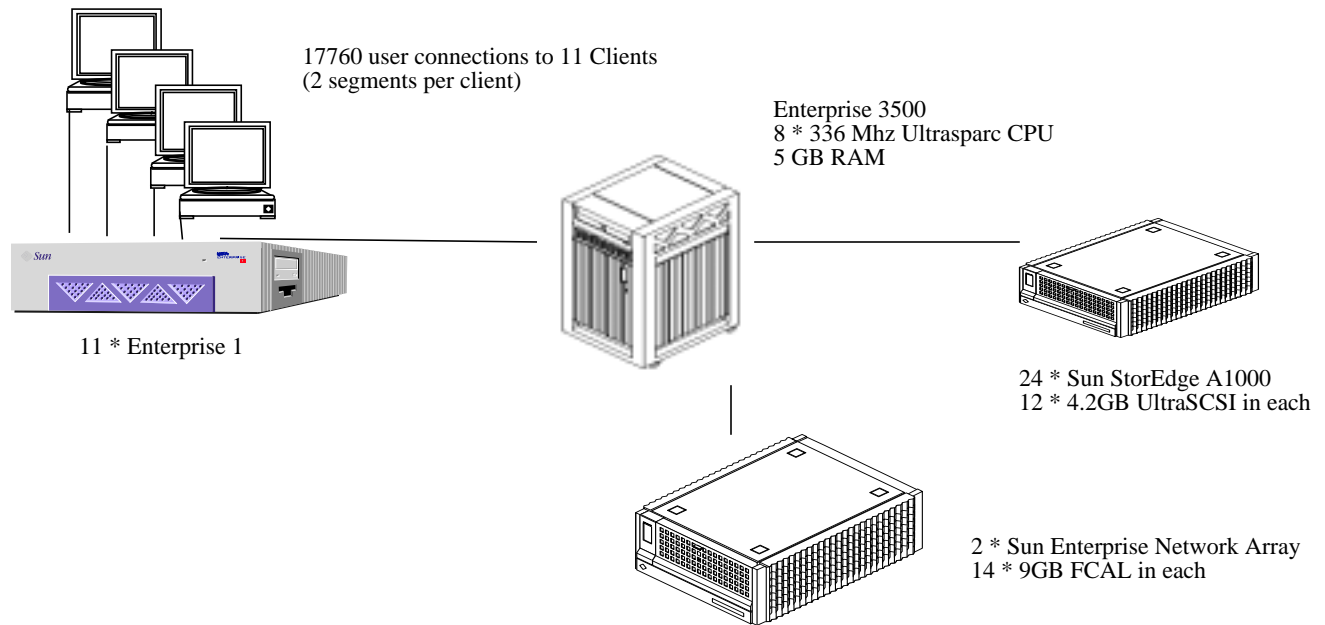


Sun Microsystems	Ultra Enterprise 3500		TPC-C Rev 3.3
Sybase, Inc.	C/S w/11 Front-Ends		Report Date: 04/28/1998
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$1,696,397.00	21871.90 tpmC	\$77.56 per tpmC	Sep 30, 1998

Processors	Database Manager	Operating System	Other Software	Number of Users
8 * 336 MHz UltraSPARC II	Sybase Adaptive Server Enterprise 11.5 EBF 7940	Solaris 2.6	BEA Tuxedo 4.2	17760



<u>System Components</u>	<u>Server System</u>	<u>Front End Systems</u>
Database Nodes:	1 Enterprise 3500	11 * Enterprise 1 Model 170
Processors	8 * 336 MHz UltraSPARC II	1 * 167 MHz UltraSPARC each
Cache memory	32KB (D+I), 4MB external	32KB (D+I), 512KB external, each
Main memory	5 GB	512 MB each
Disk controllers	1 * FCAL GBIC module 3 * Ultra DWIS/S Host adapter	1 * SCSI-2 each
Disk Drives	288 * 4.2GB UltraSCSI 28 * 9GB FCAL	1 * 2.1GB SCSI-2 each
Total Disk Storage	1461GB	2.1 GB each
Terminals	1 Console	1 Console each
10 BaseT Hubs	None	2445 x 8-Port Hubs
100 BaseT Hubs	3 x 16-Port Hub	

**Sun Microsystems
Sybase, Inc.**

**Ultra Enterprise 3500
C/S w/11 Front-Ends**

TPC-C

Report Date: 04/28/1998

Description	Part Number	Source	Unit Price	Qty	Disc	Ext. Price	5 Yr. Maint.
Server Hardware							
Enterprise 3500 w/4 CPUs (336MHz)	E3500-C64		59,850	1		59,850	35,880
CPU/Memory board	2602A		6,750	2		13,500	19,872
336MHz/4MB UltraSPARC II	2560A		12,000	4		48,000	
1GB memory (8 * 128MB)	7023A		9,375	4		37,500	
256MB memory (8 * 32MB)	7022A		2,400	4		9,600	
PS/300W for Ex000	954A		1,350	1		1,350	
SBus I/O board	2612A		5,625	1		5,625	
FCAL GBIC Module	6731AR4		450	1		450	
127GB StorEdge A5000 Array	SG-ARY011A-127G		47,250	2		94,500	30,912
Ultra DWIS/S Host adapter	1065A		971	3		2,914	
50GB StorEdge A1000 Array	SG-XARY122A-50G		20,015	24		480,371	264,960
Smart-UPS 1KVA	SX-SV1000		594	3		1,782	
Wyse55 Terminal	WYSE-WY55-G		429	1		429	
2.5GB 1/4" Internal Tape Drive	6104A		675	1		675	
Subtotal						756,546	351,624
SunService Discount (10% Volume + 5% yearly prepayment)							(52,744)
Server Hardware Subtotal						756,546	298,880
Server Software							
Solaris Server Software	SOLS-C		100	1		100	
SPARC Compiler C/C++ 4.2	WCC-4.2-P		995	1		995	1,020
Sybase Adaptive Server Enterprise 11.5			150,000	1		150,000	120,000
Sybase Development			10,000	1		10,000	8,000
Sybase Open Client			1,000	1		1,000	
Sybase discount					5%	(8,050)	
Subtotal						154,045	129,020
SunService Discount (10% Volume + 5% yearly prepayment)							(153)
Server Software Subtotal						154,045	128,867
Client Hardware							
UltraServer 1 Model 170	A11-UBA1-9S-064CE		5,621	11		61,834	51,612
2*64 MB Simm for UltraServer	7003A		1,050	44		46,200	
Quad FastEthernet Controller	1049A		1,496	11		16,459	
Wyse55 Terminal	WYSE-WY55-G		429	11		4,719	
Subtotal						129,212	51,612
SunService Discount (10% Volume + 5% yearly prepayment)							(7,742)
Client Hardware Subtotal						129,212	43,870
Client Software							
BEA Tuxedo 4.2			4,200	11		46,200	34,650
Client Software Subtotal						46,200	34,650
User Connectivity							
16-port 100Mbps Fast Ethernet Hub	NX-H16TXD		479	3		1,437	
9-port (8+1) 10Mbps Ethernet Hub	NX-H9+		42	2445		102,690	
User Connectivity Subtotal						104,127	0
Service for all Sun products is from Sun Microsystems, Inc.			Total			1,190,129	506,268
Service for Sybase products is from Sybase Inc.			5Yr. cost			\$1,696,397	
Service for Tuxedo is from BEA Systems, Inc.			tpmC Rating			21,871.90	
Notes: 1. Sun Microsystems Inc.			\$/tpmC			\$77.56	
2. CAT Technology Inc.							
3. Sybase Inc.							
4. BEA Systems Inc.							
5. NETLUX							

Note: audited by Francois Raab and Larry Fontana of Information Paradigm, Inc.,