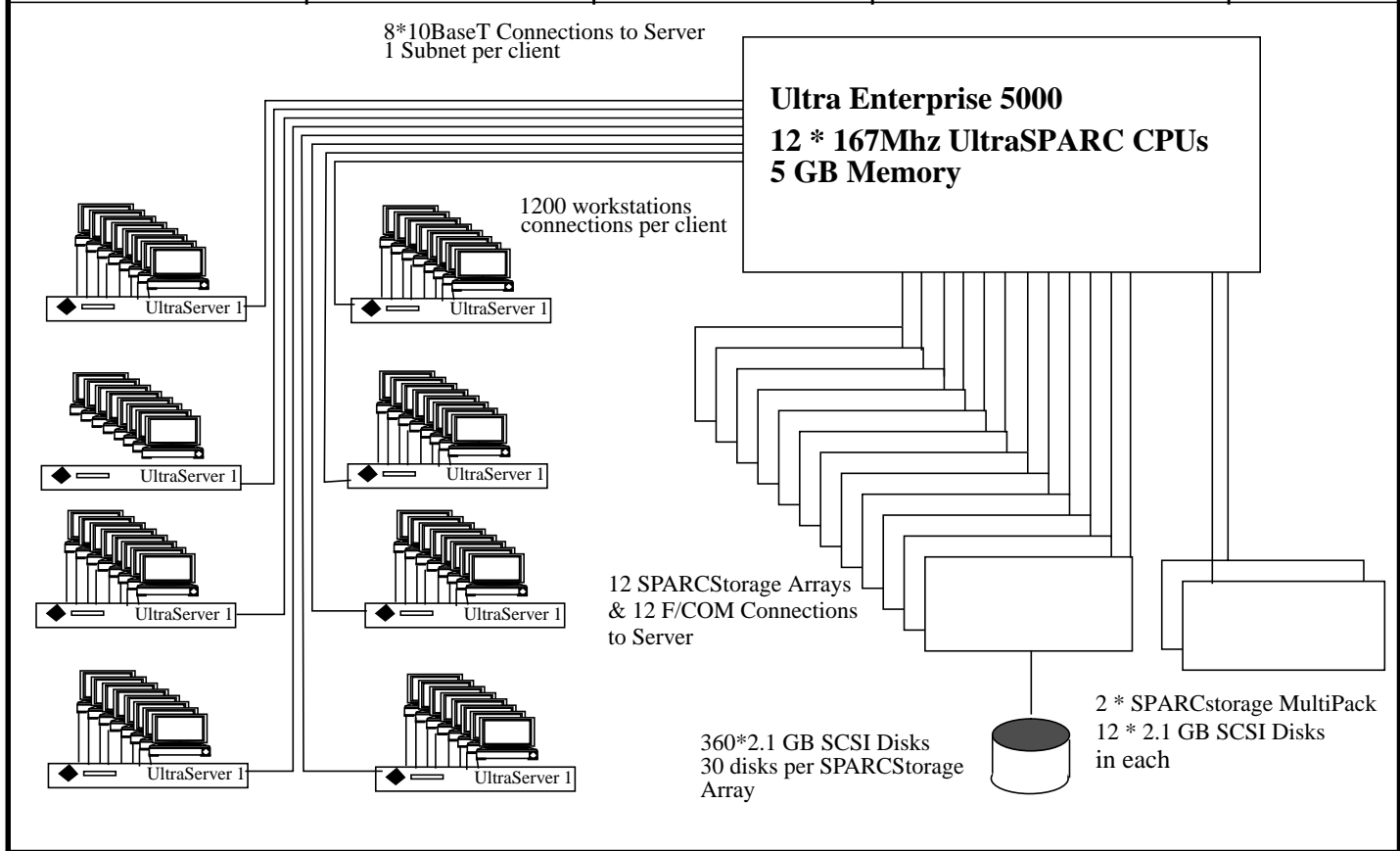


Sun Microsystems	Ultra Enterprise 5000		TPC-C Rev 3.0	
Sybase, Inc.	C/S w/8 Front-Ends		Report Date: 4/15/1996	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$2,174,978.70	11465.93 tpmC	\$190 per tpmC	Sep. 30, 1996	
Processors	Database Manager	Operating System	Other Software	Number of Users
12 * UltraSPARC 167 MHz	Sybase SQL Server 11.0.2 RDBMS	Solaris 2.5.1	Tuxedo Ver. 4.2.1	9600



System Components	Server System	Front End Systems
Database Nodes:	1 Ultra Enterprise 5000	8 * UltraServer 1 Model 170
Processors	12 * 167 MHz UltraSPARC	1 * 167 MHz UltraSPARC each
Cache memory	32KB (D+I), 512KB external	32KB (D+I), 512KB external, each
Main memory	5120 MB	512 MB each
Disk controllers	12 * FC25/S + 2 * SCSI-2	1 * SCSI-2 each
Disk Drives	384 * 2.1 GB SCSI	1 * 2.1GB SCSI-2 each
Total Disk Storage	806 GB	2.1 GB each
Terminals	1 Console	1 Console each
10 BaseT Hubs	None	440 x 24-Port Hubs

Part Number	Description	Qty	Unit Price	Extended Price	Maintenance per Month	5 Yr. Total Maintenance
Hardware						
E5000	Enterprise Server 5000	1	42750.00	42750.00	700.00	37800.00
2600A	CPU/Memory Board	6	6750.00	40500.00	150.00	48600.00
2500A	UltraSPARC Module with .5MB cache	12	5250.00	63000.00		
954A	Power Cooling Module	2	1350.00	2700.00		
2610A	SBus I/O Board	2	4875.00	9750.00		
7023A	1 GB Expansion Memory	5	75000.00	375000.00		
1058A	Quad Ethernet Controller	2	746.00	1492.00		
5513A	12x2GB Disk Drives	2	10650.00	21300.00		
1057A	Fibre Channel SBus Card	4	1200.00	4800.00		
595A	Fibre Channel Module	8	450.00	3600.00		
792A	SSA112 with 30 2GB Drives	12	35100.00	421200.00	120.00	77760.00
822A	4mm Tape Backup	1	1294.00	1294.00		
	Server Totals			987386.00		164160.00
Front End						
A11-UBA1-9S-064CB	UltraServer 1 Model 170	8	11621.00	92968.00	76.00	32832.00
X1058A	Quad Ethernet Controller	8	746.00	5968.00		
X7003A	2*64 Mb Simm for UltraServer	32	4275.00	136800.00		
	Front End Total			235736.00		32832.00
Terminals & Connectivity						
	Wyse35 Terminal	9	295.00	2655.00		
DEH1286	Bocca 24 Port Hubs with 10% spares	440	335.00	147400.00		
	Terminals & Connectivity Totals			150055.00		
	ALL HARDWARE SUBTOTALS			1373177.00		196992.00
Software						
SOLS-C	Solaris Software on CD-ROM	1	100.00	100.00		
CC-P	SPARC Compiler Single Usr. License	1	695.00	695.00	20.00	1140.00
	Sun SoftwareTotals			795.00		1140.00
Indepentent Tech. Inc. Clients	Tuxedo 4.2.1 Runtime	8	7500.00	60000.00	9000.00	45000.00
	Tuxedo 4.2.1 Developoment	1	2395.00	2395.00	359.25	1796.25
	Tuxedo Totals			62395.00		46796.25
Sybase	Sybase SQL Server License	1	360000.00	360000.00	39600.00	198000.00
	Open Client for Unix	1	795.00	795.00	87.45	437.25
	Sybase Totals			360795.00		198437.25
Discount	ALL SOFTWARE SUBTOTALS:			423985.00		246373.50
	Sun Prepaid Maintenance Discount (Hardware)		15%			-29548.80
	Sybase Volume Discount		10%			-36000.00
	TOTAL HARDWARE & SOFTWARE COST (5YR)					2174978.70
	PRICE PER TPMC					189.69

Sun hardware has 1-year warranty bundled.
During the warranty period, maintenance is discounted 50%.
Maintenance prices for Sybase and Tuxedo are yearly rates.