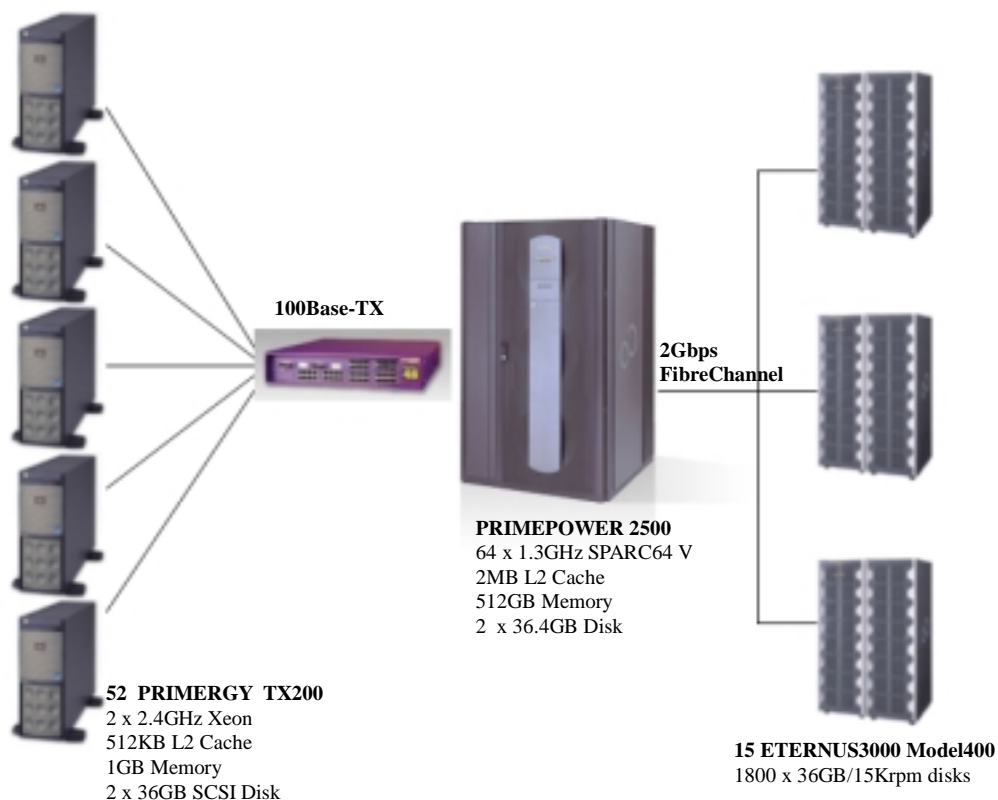
		PRIMEPOWER 2500 c/s w/52 Front-Ends		TPC-C Rev 5.1
				Report Date: Jan 6, 2004
Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
\$7,399,502		595,702.31 tpmC	\$12.43/tpmC	April 30,2004
Processors	Database Manager	Operating system	Other Software	Number of users
64 SPARC64 V @ 1.3GHz	Oracle Database 10g Enterprise Edition	Solaris 8	Microsoft IIS 5.0, Veritas Volumegr.3.5.0, Microsoft COM+	480,000



System Components	Server (PRIMEPOWER 2500)		each Client(52 PRIMERGY TX200)	
	Quantity	Description	Quantity	Description
Processor	1	64 x SPARC64 V @ 1.3GHz	52	2 x Intel Xeon 2.4GHz
Cache Memory		2 MB (each processor)		512 KB (each processor)
Memory		512GB		1 GB
Disk Controllers	60	2GBPS Fiber Chennel	1	SCSI controller
Disk Drives	1800 2	36GB 15K rpm Disk 36.4GB 10K rpm Disk	2	36 GB SCSI Disk
Total Storage		57,636.06 GB		72 GB
Terminal	1	Console Terminal	1	15" Monitor



**PRIMEPOWER 2500 c/s
w/52 Front-Ends**

TPC-C Rev 5.1
Report Date: Jan 6, 2004

Server Hardware	Part Number	Qty	Source	Unit Price	Ext. Price	Maint. rate/unit	3 Yr. Maint.
PRIMEPOWER 2500 w/ 8 x SPARC64 V 1.3GHz/2MB, 2 UltraSCSI/D Cards	PW2KBP2S1U	1	1	1,065,000.00	1,065,000.00	/3yr	457,776.00
System Board	PW2K7SB11U	16	1	37,500.00	600,000.00		
CPU Module (SPARC64 V 1.3GHz/2MB x 2)	PW2K1B12U	32	1	42,510.00	1,360,320.00		
Additional Memory (8GB)	PW2K2M41U	64	1	14,800.00	947,200.00		
Additional Disk Unit (36.4GB)	PW0R3D24	2	1	1,000.00	2,000.00		
PCI / Disk Box	PW2K7BD1U	7	1	27,500.00	192,500.00		
I/O Rack Unit	PW2K7RK3U	1	1	24,500.00	24,500.00		
I/O Rack Unit Connection kit (Basic Unit)	PW2K7RK93U	1	1	9,500.00	9,500.00		
Fibre Channel Card(2Gb)	PW008FC2U	60	1	2,795.00	167,700.00		
Fibre Channel cable	DCL-FCA20U	60	1	780.00	46,800.00		
PRIMEPOWER 100 for System Console	PW087MC4AU	1	1	13,500.00	13,500.00		
Server Hardware Subtotals					4,429,020.00		457,776.00
Storage							
ETERNUS3000 Model400 floor stand(rack without door)	E340S20AU	15	1	35,490.00	532,350.00	3,550.00 /yr*2	106,500.00
Additional drive Enclosure	E300CE1U	45	1	7,172.00	322,740.00	715.00 /yr*2	64,350.00
Additional cache memory(4GB)	E340CM4	15	1	9,034.00	135,510.00	900.00 /yr*2	27,000.00
36GB/15Krpm disk drive	E300CA3H	1800	1	662.00	1,191,600.00	65.00 /yr*2	234,000.00
Storage Subtotals					2,182,200.00		431,850.00
Server Software							
Multilingual Solaris(TM) 8 2/02 OE Media for PRIMEPOWER (Rev.4)	B23PT40H0H	1	1	100.00	100.00		
Oracle Database 10g Enterprise Edition for 3 years, Unlimited Users		64	2	20,000.00	1,280,000.00		
Oracle Database Server Support Package for 3 years		1	2	6,000.00		/3yr	6,000.00
Volume Manager, Solaris, V3.5, License, Tier 4C	A08974F-M00000	1	3	39,126.75	39,126.75		
Volume Manager, Solaris, V3.5, Tier 4C Extended Support	W08974F-M00212	3	3			/3yr	35,304.75
Storage Solution, Solaris V3.5 Maintenance Pack 1, English	N09665F	1	3	65.00	65.00		
Volume Manager, Solaris, Administrator's Guide	N08836F	1	3	32.50	32.50		
Server Software Subtotals					1,319,324.25		41,304.75
Client Hardware							
PRIMERGY PY TX200f X/2.4/512 512M	S26361-K880-V102	52	1	1,466.00	76,232.00		
Processor XEON DP 2.4GHz/512K/533MHz	S26361-F2827-E240	52	1	450.00	23,400.00		
Mem 512MB DDR-RAM PC2100 1p ECC	S26361-F2762-E523	52	1	290.00	15,080.00		
CD-ROM, ATAPI	SNP:SY-F2240E1-A	52	1	35.00	1,820.00		
HDD U320 10k 36GB hot plug 1"	S26361-F2764-E136	104	1	269.00	27,976.00		
Fast Ethernet Adapter 10/100TX	S26361-F2643-E1	104	1	74.00	7,696.00		
Cable powercord(USA), 1.8m, grey	T26139-Y1742-E10	52	1	9.00	468.00		
Monitor CRT 15" SCENICVIEW 151E	S26361-K819-V150	52	1	127.00	6,604.00		
Keyboard KBPC USB US	S26361-K280-V110	52	1	42.00	2,184.00		
Client Hardware Subtotals					161,460.00		0.00
Client Software							
Microsoft Windows 2000 Server		52	1	673.00	34,996.00	/3yr	21,800.00
Microsoft Visual C++ Standard		1	1	102.00	102.00	/3yr	480.00
Client Software Subtotals					35,098.00		22,280.00
User Connectivity							
ExtremeNetworks Summit48i(15501)	LFE15501	3	4	8,240.04	24,720.12	/3yr	18,394.65
GBIC Module(10011)	LFE10011	3	4	461.57	1,384.71		
User Connectivity Subtotals					26,104.83		18,394.65
Total					8,153,207.08		971,605.40
Oracle Mandatory E-Business Discount		1	2	(321,500.00)	(321,500.00)		
Large Configuration Discount and Support Prepayment*					(1,328,736.00)		(75,075.26)
Three-Year Cost of Ownership							\$7,399,502
Audited by: Francois Raab, InfoSizing, Inc. (www.sizing.com)							tpmC
Pricing Sources:							595,702.31
1 = Fujitsu , 2 = Oracle , 3 = Veritas , 4 = DreamRetail, Inc							\$ / tpmC
*All discounts are based on US list prices and for similar quantities and configurations							\$12.43
*2: 1 year warranty included							

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 items, please inform the TPC at pricing@tpc.org. Thank you.

Numerical Quantities Summary							
PRIMEPOWER 2500 c/s w/ 52 Front-Ends							
Oracle Database 10g Enterprise Edition							
MQTH, Computed Maximum Qualified Throughput				595,702.31 tpmC			
Response Times (in seconds)		Average		90%		Max.	
New-Order		0.598		0.870		38.889	
Payment		0.564		0.850		34.921	
Order-Status		0.561		0.850		27.331	
Delivery (interactive portion)		0.131		0.120		22.309	
Delivery (deferred portion)		0.354		0.550		25.093	
Stock-Level		0.544		0.830		29.641	
Menu		0.142		0.120		22.322	
Transaction Mix, in percent of total transaction							
New-Order						44.91	
Payment						43.04	
Order-Status						4.02	
Delivery						4.02	
Stock-Level						4.02	
Emulation Delay (in seconds)				Resp. Time		Menu	
New-Order				.1		.1	
Payment				.1		.1	
Order-Status				.1		.1	
Delivery (interactive)				.1		.1	
Stock-Level				.1		.1	
Keying/Think Times (in seconds)		Min.		Average		Max.	
New-Order		18.01 0.01		18.02 12.02		18.18 120.11	
Payment		3.02 0.01		3.03 12.01		3.32 120.11	
Order-Status		2.00 0.02		2.01 10.02		2.13 100.20	
Delivery (interactive)		2.00 0.01		2.01 5.02		2.15 50.10	
Stock-Level		2.00 0.01		2.01 5.02		2.12 50.09	
Test Duration							
Ramp-up time (seconds)						2,640	
Measurement interval						7,200	
Transactions during measurement interval						71,484,279	
Checkpointing							
Number of checkpoints						4	
Checkpoint interval						1,775	