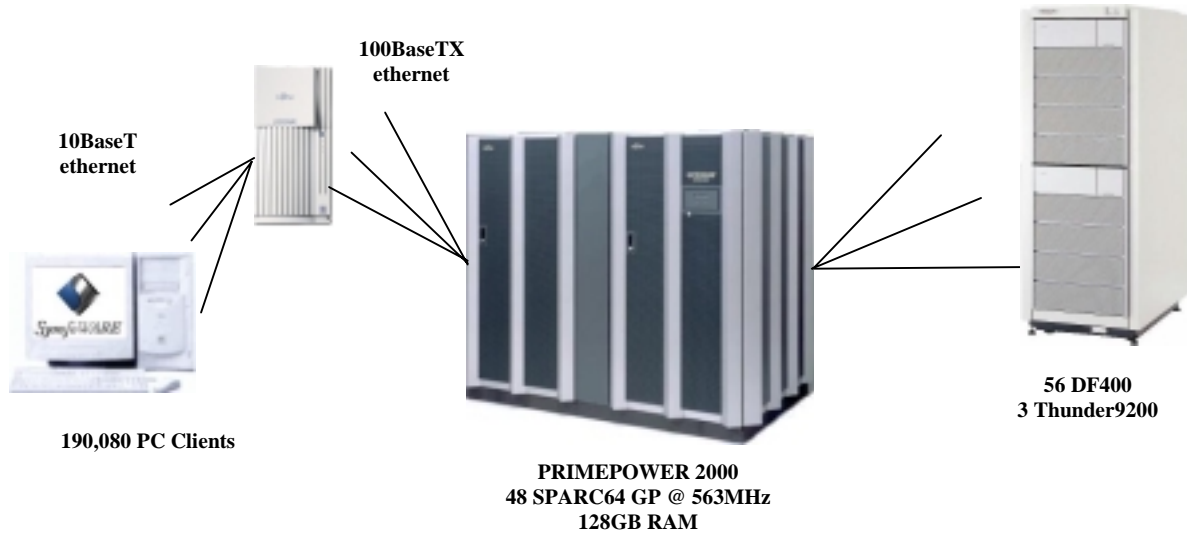


# Priced Configuration

<b>FUJITSU</b>	<b>PRIMEPOWER 2000 c/s w/ 32 Front-Ends</b>		TPC-C Rev 3.5	
			Report Date: March 16, 2001	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$11,449,392	222,772.33 tpmC	\$51.40/tpmC	June 30, 2001	
Processors	Database Manager	Operating system	Other Software	Number of users
48 SPARC64 GP @ 563MHz	SymfoWARE Server Enterprise Edition for VLM 3.0	Solaris 8	BEA Tuxedo 6.5 CFS, Microsoft Internet Information Server	190,080

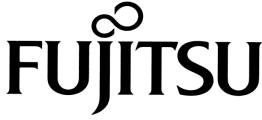
## PRIMEPOWER 2000 Priced Configuration

32 PRIMERGY ES320:  
2 Pentium III @ 800EBMHz



RDBMS SERVER			CLIENTS(EACH OF 32)	
	QTY	DESCRIPTION	QTY	DESCRIPTION
PROCESSOR	48	SPARC64 GP @ 563MHz	2	PENTIUM III @ 800MHz
CACHE MEMORY		8MB (EACH PROCESSOR)		256KB (EACH PROCESSOR)
MEMORY		128GB		768MB
DISK CONTROLLER	112	ULTRA WIDE DIFFERENTIAL SCSI	1	ULTRA2 WIDE SCSI
	6	FIBRECHANNEL		
DISKS	300	18GB (15,000RPM)	1	9GB
	1,690	18GB (10,000RPM)		
	8	9GB(10,000RPM)		
TOTAL		33,004.74 GB		
TERMINAL	1	SYSTEM CONSOLE	1	17" MONITOR
NETWORK INTERFACE	6	FASTETHERNET	3	FASTETHERNET
			38	10/100 ETHERNET SWITCH (24PORTS)
HUBS	6	10/100 ETHERNET SWITCH	23,936	10 BASET HUB (8 PORTS)

# Detailed Pricing Information

		<b>Detailed Pricing Information</b> <b>PRIMEPOWER 2000 c/s</b> <b>w/ 32 Front-Ends</b>			TPC-C Rev 3.5 Report Date: March 16, 2001		
Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit	5 Years Maintenance
<b>Server Hardware</b>							
PP200CIU	PRIMEPOWER 2000 w/ 8 x SPARC64 GP 563MHz/8MB, 2 UltraSCSI/D Cards	1		595,000.00	595,000.00	861.147	861.147
GP7N7ER11U	System Expansion Cabinet for PRIMEPOWER 2000	1		68,600.00	68,600.00	/5yr	
PP087SB1U	System Board	14		45,500.00	637,000.00	/5yr	
PP081CI1U	CPU Module (SPARC64 GP 560MHz/8MB)	40		15,750.00	630,000.00	/5yr	
	Additional Memory (512MB)	0			0.00	/5yr	
GP7N2M61U	Additional Memory (1024MB)	128		6,300.00	806,400.00	/5yr	
GP7N7FT1U	Additional Fan Tray	7		1,750.00	12,250.00	/5yr	
GP7N7PU1U	Additional Power Supply	3		2,660.00	7,980.00	/5yr	
PP087FL1U	Disk Unit	2		1,680.00	3,360.00	/5yr	
PP087FL91U	Additional Disk Unit	2		672.00	1,344.00	/5yr	
PP083D91U	9GB 10,000rpm disk	8		574.00	4,592.00	/5yr	
PP083D181U	18GB 10,000rpm disk	12		868.00	10,416.00	/5yr	
X1034A-X	Quad FastEthernet Card	2		1,256.50	2,513.00	/5yr	
X6541A-X	Dual Channel UltraSCSI/D Card	56		1,008.00	56,448.00	/5yr	
DCBL-SCP20	VHDCI - 68P SCSI cable (20m)	112		260.00	29,120.00	/5yr	
GP7B8FC1	Fibre Channel Card	6		976.50	5,859.00	/5yr	
DCBL-PCA20	Fibre Channel Interface cable for Optical	6		780.00	4,680.00	/5yr	
DF400-RK	Basic style of Rackmount	56	1	31,700.00	1,775,200.00	10,560.00	591,360.00
DF-F400-ASF18	Canister Unit of 17.8GB Drive 10,000rpm	1678	1	609.00	1,021,902.00	/5yr	
DF-F400-C32S	32MB Cache Unit	112	1	140.00	15,680.00	/5yr	
DF-F400-FIC	Control Unit	56	1	3,900.00	218,400.00	/5yr	
DF-F400-B1CC	Power Unit of Control Unit	112	1	640.00	71,680.00	/5yr	
DF-F400-B1CD	Power Unit of Disk Drive	112	1	640.00	71,680.00	/5yr	
DF-F400-U4J	Rack Frame for RK	28	1	12,106.00	338,968.00	/5yr	
DF-F400-URHP4	Rail for 19" Rack	28	1	950.00	26,600.00	/5yr	
DF500-RK	Basic style of Rackmount	3	1	20,307.31	60,921.93	6,232.00	18,696.00
DF500-RKA	Additional style of Rackmount	27	1	12,832.27	346,471.29	2,800.00	75,600.00
DF-F500-AAH18	Canister unit of 17.8GB Drive 15,000rpm	300	1	1,260.00	378,000.00	/5yr	
DF-F500-C256	256MB Cache unit	6	1	2,752.37	16,514.22	/5yr	
DF-F500-FIF	Control unit	3	1	7,867.63	23,602.89	/5yr	
DF-F500-U6	Rack for DF500-RK	3	1	6,053.00	18,159.00	/5yr	
DF-F500-URHT5	Rail for 19" Rack (U6)	30	1	475.00	14,250.00	/5yr	
PP020BP1U	PRIMEPOWER 2000/250 for System Console	1		5,270.00	5,270.00		8,891.52
PP022M41U	256MB Additional Memory	1		1,445.00	1,445.00	/5yr	
PP023D92U	9.1GB SCSI disk	1		697.00	697.00	/5yr	
GP7B3DT1U	Internal DDS3 Unit	1		799.00	799.00	/5yr	
X1033A-U	FastEthernet Card	1		590.75	590.75	/5yr	
X3668B-U	PGX32 Color FrameBuffer	1		250.75	250.75	/5yr	
X7143AA	17" Monitor	1		658.35	658.35	/5yr	
<b>Server Hardware Subtotals</b>					7,283,302.18		1,555,694.40
<b>Server Software</b>							
B23PDM8H0	Solaris 8 for PRIMEPOWER 2000	1		85.00	85.00	0.00	0.00
GP7N7CL9AU	System Console Software	1		2,140.67	2,140.67	0.00	0.00
B23G870H0	SymfowARE Server Enterprise Edition for VLM 3.0 w/ 16 Processor License	1		251,000.00	251,000.00	251,000.00	251,000.00
B23G870CB	SymfowARE Server Enterprise Edition for VLM 16 Processor License	2		170,000.00	340,000.00	170,000.00	340,000.00
B23P251HNH	SymfowDisk	1		832.00	832.00	0.00	0.00
<b>Server Software Subtotals</b>					594,057.67		591,000.00
<b>Client Hardware</b>							
GP5T3CB1A	PRIMERGY ES320 w/ 1 x Pentium III 800MHz, 256MB memory, 1 x 10/100Base-TX	32		2,416.80	77,337.60	471.00	15,072.00
GP5-FG22B	Pentium III (800MHz)	32		647.90	20,732.80	/5yr	
GP5-RM25M	256MB memory	64		593.75	38,000.00	/5yr	
GP5-HD4H9D	9GB SCSI disk	32		434.15	13,892.80	/5yr	
GP5-185	FastEthernet Adapter (10/100Base-TX)	64		126.35	8,066.40	/5yr	
X7143AA	17" Monitor	32		658.35	21,067.20	/5yr	
<b>Client Hardware Subtotals</b>					179,116.80		15,072.00
<b>Client Software</b>							
	Microsoft Windows 2000 Server 5CAL	32	2	860.00	27,520.00	480.00	46,080.00
	Microsoft Visual C++ Professional 6.0	1	2	395.00	395.00	209.00	627.00
	BEA Tuxedo 6.5 CFS	32	3	3,000.00	96,000.00	480.00	76,800.00
<b>Client Software Subtotals</b>					123,915.00		123,507.00
<b>User Connectivity</b>							
WS-2924M-XL-EN	CISCO Catalyst 2924M-XL-EN 10/100 Ethernet Switch (24ports) *	42	2	1,838.00	77,196.00	430.00	90,300.00
TP1008C-110V	8-Port RJ45 & BNC Ethernet Hub *	26330	2	31.00	816,230.00	0.00	0.00
<b>User Connectivity Subtotals</b>					893,426.00		90,300.00
<b>Totals</b>					9,073,817.65		2,375,573.40
<b>5 Year cost</b>							11,449,392
<b>tpmC</b>							222,772.33
<b>\$/tpmC</b>							51.40
* = 10% or minimum of 2 spares are included.							
Third Party:	1 = Hitachi Data Systems						
	2 = E.C.W. Enterprise, Inc. dba/HQ Computer Systems						
	3 = BEA Systems						

**Notes:**

Results independently audited by Francois Raab of InfoSizing, Inc.  
 28 unpriced GRANPOWER 5000 clients in the benchmarked configuration were substituted by 28 PRIMERGY ES320 clients in the priced configuration.

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.

<b>Numerical Quantities Summary</b>							
<b>PRIMEPOWER 2000 c/s w/ 32 Front-Ends</b>							
<b>SymfoWARE Server Enterprise Edition for VLM 3.0</b>							
<b>MQTH, Computed Maximum Qualified Throughput</b>					<b>222,772.33 tpmC</b>		
<b>Response Times (in seconds)</b>		<b>Average</b>		<b>90%</b>		<b>Max.</b>	
New-Order		1.69		4.00		43.56	
Payment		1.51		3.72		48.94	
Order-Status		1.51		3.70		38.57	
Delivery (interactive portion)		0.33		0.30		13.70	
Delivery (deferred portion)		1.57		3.58		35.25	
Stock-Level		1.46		3.60		40.41	
Menu		0.33		0.17		13.78	
<b>Transaction Mix, in percent of total transaction</b>							
New-Order						44.79	
Payment						43.10	
Order-Status						4.05	
Delivery						4.03	
Stock-Level						4.02	
<b>Emulation Delay (in seconds)</b>				<b>Resp. Time</b>		<b>Menu</b>	
New-Order				.1		.1	
Payment				.1		.1	
Order-Status				.1		.1	
Delivery (interactive)				.1		.1	
Stock-Level				.1		.1	
<b>Keying/Think Times (in seconds)</b>			<b>Min.</b>		<b>Average</b>		<b>Max.</b>
New-Order			18.06 0.02		18.08 12.04		19.00 120.30
Payment			3.05 0.01		3.07 12.04		3.81 120.31
Order-Status			2.05 0.02		2.07 10.07		2.73 100.63
Delivery (interactive)			2.05 0.02		2.07 5.05		2.69 50.35
Stock-Level			2.05 0.01		2.07 5.05		2.92 50.41
<b>Test Duration</b>							
Ramp-up time (seconds)						3,891	
Measurement interval						1,800	
Transactions (all types) during measurement interval						14,920,368	
<b>Checkpointing</b>							
Number of checkpoints						1	
Checkpoint interval						1,800	
<b>Reproducibility Run</b>							
Reported measurement						222,772.33	
Reproducibility measurement						221,280.83	
Difference						0.67%	