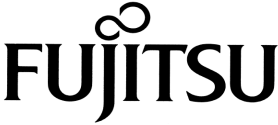
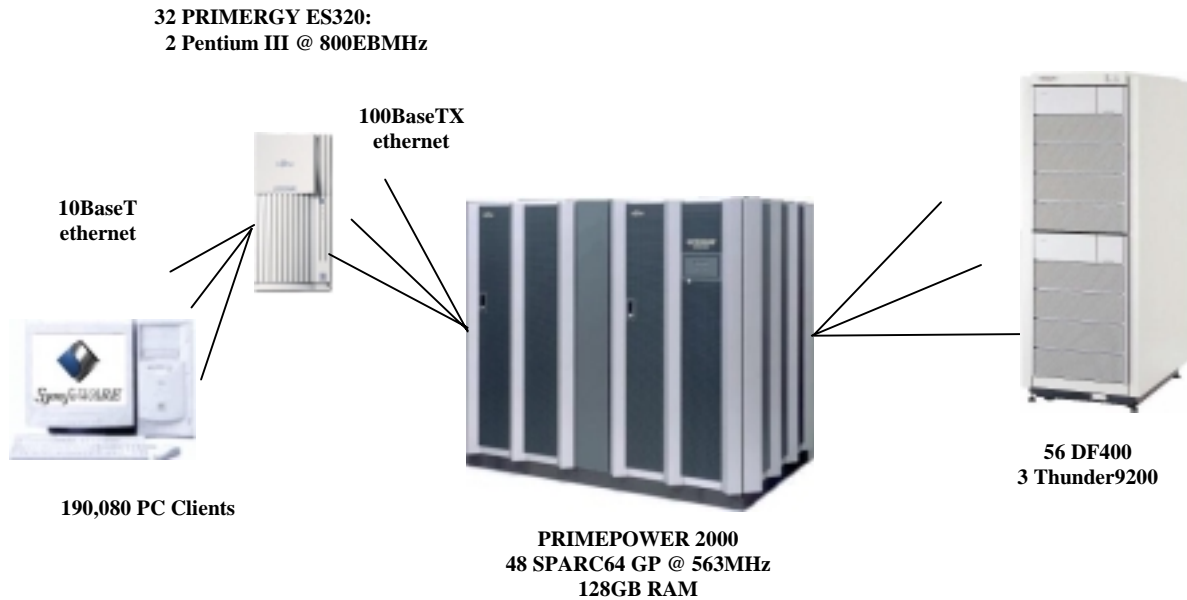


# Priced Configuration

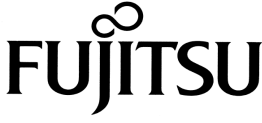
		<b>PRIMEPOWER 2000 c/s w/ 32 Front-Ends</b>		TPC-C Rev. 5 upgrade from TPC-C Rev. 3.5	
				Report Date: April 13, 2001 March 16, 2001(original)	
<b>Total System Cost</b> \$9,671,742		<b>TPC-C Throughput</b> 222,772.33 tpmC		<b>Price/Performance</b> \$43.42/tpmC	
				<b>Availability Date</b> June 30, 2001	
<b>Processors</b>		<b>Database Manager</b>		<b>Operating system</b>	
48 SPARC64 GP @ 563MHz		SymfoWARE Server Enterprise Edition for VLM 3.0		Solaris 8	
				<b>Other Software</b>	
				BEA Tuxedo 6.5 CFS, Microsoft Internet Information Server	
				<b>Number of users</b> 190,080	

## PRIMEPOWER 2000 Priced Configuration



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	FIBRE CHANNEL		
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

# Detailed Pricing Information

	<h2>Detailed Pricing Information</h2> <h3>PRIMEPOWER 2000 c/s w/ 32 Front-Ends</h3>	TPC-C Rev 5 upgrade from TPC-C V3.5 Report Date: April 13, 2001 March 16, 2001(original)
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Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit	3 Years Maintenance
<b>Server Hardware</b>							
PP200C1U	PRIMEPOWER 2000 w/ 8 x SPARC64 GP 563MHz/8MB, 2 UltraSCSI/D Cards	1		595,000.00	595,000.00	638,829.60	3yr 638,829.60
GP7N7ER11U	System Expansion Cabinet for PRIMEPOWER 2000	1		68,600.00	68,600.00		3yr
PP087SB1U	System Board	14		45,500.00	637,000.00		3yr
PP081C11U	CPU Module (SPARC64 GP 560MHz/8MB)	40		15,750.00	630,000.00		3yr
-	Additional Memory (512MB)	0			0.00		3yr
GP7N2M61U	Additional Memory (1024MB)	128		6,300.00	806,400.00		3yr
GP7N7FT1U	Additional Fan Tray	7		1,750.00	12,250.00		3yr
GP7N7PU1U	Additional Power Supply	3		2,600.00	7,980.00		3yr
PP087FL1U	Disk Unit	2		1,680.00	3,360.00		3yr
PP087FL91U	Additional Disk Unit	2		672.00	1,344.00		3yr
PP083D911U	9GB 10,000rpm disk	8		574.00	4,592.00		3yr
PP083D1811U	18GB 10,000rpm disk	12		868.00	10,416.00		3yr
X1034A-X	Quad FastEthernet Card	2		1,256.50	2,513.00		3yr
X6541A-X	Dual Channel UltraSCSI/D Card	56		1,008.00	56,448.00		3yr
DCBL-SCP20	VHDCI - 68P SCSI cable (20m)	112		260.00	29,120.00		3yr
GP7B8FC1	Fibre Channel Card	6		976.50	5,859.00		3yr
DCBL-PCA20	Fibre Channel Interface cable for Optical	6		780.00	4,680.00		3yr
DF400-RK	Basic style of Rackmount	56	1	31,700.00	1,775,200.00	5,280.00	3yr 295,680.00
DF-F400-A5F18	Canister Unit of 17.8GB Drive 10,000rpm	1678	1	609.00	1,021,902.00		3yr
DF-F400-C32S	32MB Cache Unit	112	1	140.00	15,680.00		3yr
DF-F400-F1C	Control Unit	56	1	3,900.00	218,400.00		3yr
DF-F400-B1CC	Power Unit of Control Unit	112	1	640.00	71,680.00		3yr
DF-F400-B1CD	Power Unit of Disk Drive	112	1	640.00	71,680.00		3yr
DF-F400-U4J	Rack Frame for RK	28	1	12,106.00	338,968.00		3yr
DF-F400-URHP4	Rail for 19" Rack	28	1	950.00	26,600.00		3yr
DF500-RK	Basic style of Rackmount	3	1	20,307.31	60,921.93	3,116.00	3yr 9,348.00
DF500-RKA	Additional style of Rackmount	27	1	12,832.27	346,471.29	1,400.00	3yr 37,800.00
DF-F500-AAH18	Canister unit of 17.8GB Drive 15,000rpm	300	1	1,260.00	378,000.00		3yr
DF-F500-C256	256MB Cache unit	6	1	2,752.37	16,514.22		3yr
DF-F500-F1F	Control unit	3	1	7,867.63	23,602.89		3yr
DF-F500-U6	Rack for DF500-RK	3	1	6,053.00	18,159.00		3yr
DF-F500-URHT5	Rail for 19" Rack (U6)	30	1	475.00	14,250.00		3yr
PP020BPIU	PRIMEPOWER 2000/250 for System Console	1		5,270.00	5,270.00	11,890.08	3yr 11,890.08
PP022M41U	256MB Additional Memory	1		1,445.00	1,445.00		3yr
PP023D93U	9.1GB SCSI disk	1		697.00	697.00		3yr
GP7B3DT1U	Internal DDS3 Unit	1		799.00	799.00		3yr
X1033A-U	FastEthernet Card	1		590.75	590.75		3yr
X3668B-U	PGX32 Color FrameBuffer	1		250.75	250.75		3yr
X7143AA	17" Monitor	1		658.35	658.35		3yr
<b>Server Hardware Subtotals</b>					7,283,302.18		993,547.68
<b>Server Software</b>							
B23PDM8H0	Solaris 8 for PRIMEPOWER 2000	1		85.00	85.00	0.00	3yr 0.00
GP7N7CL9AU	System Console Software	1		2,140.67	2,140.67	0.00	3yr 0.00
B23G870H0	SymfoWARE Server Enterprise Edition for VLM 3.0 w/ 16 Processor License	1		251,000.00	251,000.00	50,200.00	3yr 150,600.00
B23G870CB	SymfoWARE Server Enterprise Edition for VLM 16 Processor License	2		170,000.00	340,000.00	34,000.00	3yr 204,000.00
B23P251HNH	SynfinityDisk	1		832.00	832.00	0.00	3yr 0.00
<b>Server Software Subtotals</b>					594,057.67		354,600.00
<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	650.00	20,800.00
GP5-FG22B	Pentium III (800MHz)	32		647.90	20,732.80		3yr
GP5-RM25M	256MB memory	64		593.75	38,000.00		3yr
GP5-HDH9D	9GB SCSI disk	32		434.15	13,892.80		3yr
GP5-185	FastEthernet Adapter (10/100Base-TX)	64		126.35	8,086.40		3yr
X7143AA	17" Monitor	32		658.35	21,067.20		3yr
<b>Client Hardware Subtotals</b>					179,116.80		20,800.00
<b>Client Software</b>							
	Microsoft Windows 2000 Server SCAL	32	2	860.00	27,520.00	480.00	2yr 30,720.00
	Microsoft Visual C++ Professional 6.0	1	2	395.00	790.00	209.00	2yr 418.00
	BEA Tuxedo 6.5 CFS	32	3	3,000.00	96,000.00	690.00	3yr 66,240.00
<b>Client Software Subtotals</b>					123,915.00		97,378.00
<b>User Connectivity</b>							
WS-2924M-XL-EN	CISCO Catalyst 2924M-XL-EN 10/100 Ethernet Switch (24ports) *	8	2	1,838.00	14,704.00	430.00	3yr 10,320.00
<b>User Connectivity Subtotals</b>					14,704.00		10,320.00
<b>Totals</b>					8,195,095.65		1,476,645.68
<b>3 Year cost</b>							9,671,742
<b>tpm C</b>							222,772.33
<b>\$ / tpm C</b>							43.42
* : 10% or minimum of 2 spares are included.							
Third Party : 1 = Hitachi Data Systems							
2 = E.C.W. Enterprise, Inc. dba/HiQ 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%	