
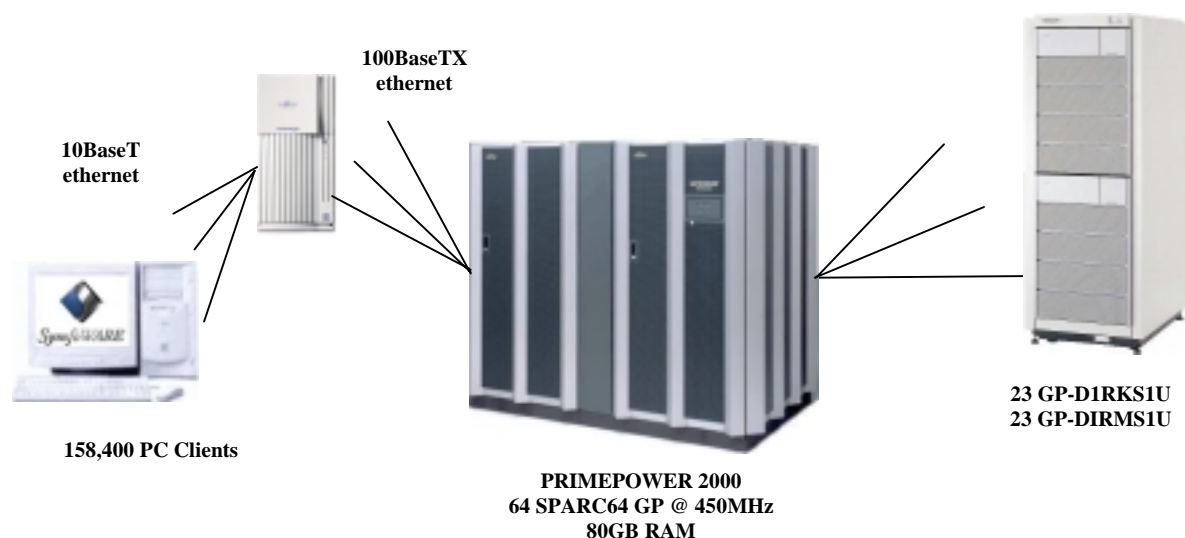


Priced Configuration

	PRIMEPOWER 2000 c/s w/ 32 Front-Ends		TPC-C Rev 3.5	
			Report Date: January 12, 2001	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$10,318,807	183,770.97 tpmC	\$56.16/tpmC	June 30, 2001	
Processors	Database Manager	Operating system	Other Software	Number of users
64 SPARC64 GP @ 450MHz	SymfoWARE Server Enterprise Edition for VLM 3.0	Solaris7	BEA Tuxedo 6.4 CFS, Microsoft Internet Information Server	158,400

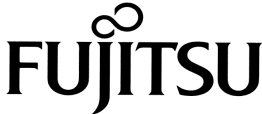
PRIMEPOWER 2000 Priced Configuration

32 PRIMERGY ES320:
2 Pentium III @ 800EBMHz



RDBMS SERVER			CLIENTS(EACH OF 32)	
	QTY	DESCRIPTION	QTY	DESCRIPTION
PROCESSOR	64	SPARC64 GP @ 450MHz	2	PENTIUM III @ 800MHz
CACHE MEMORY		8MB (EACH PROCESSOR)		256KB (EACH PROCESSOR)
MEMORY		80GB		768MB
DISK CONTROLLER	48	ULTRA WIDE DIFFERENTIAL SCSI	1	ULTRA2 WIDE SCSI
DISKS	1,290	18GB (10,000RPM)	1	9GB
	104	9GB (10,000RPM)		
TOTAL		22,254 GB		
TERMINAL	1	SYSTEM CONSOLE	1	17" MONITOR
NETWORK INTERFACE	6	FASTETHERNET	3	FASTETHERNET
			32	10/100 ETHERNET SWITCH (24PORTS)
HUBS	6	10/100 ETHERNET SWITCH	19,973	10 BASET HUB (8 PORTS)

Detailed Pricing Information

	Detailed Pricing Information PRIMEPOWER 2000 c/s w/ 32 Front-Ends	TPC-C Rev 3.5 Report Date: January 12, 2001
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Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit		5 Years Maintenance
Server Hardware								
PP200A1U	PRIMEPOWER 2000 w/ 8 x SPARC64 GP 450MHz/8MB, 2 Dual Channel UltraSCSI/D Cards	1		525,000.00	525,000.00			861,146.88
GP7N7ER1U	System Expansion Cabinet for PRIMEPOWER 2000	1		68,600.00	68,600.00	0.00	/5yr	0.00
PP207SB1U	System Board	14		45,500.00	637,000.00	0.00	/5yr	0.00
PP081A11U	CPU Module (SPARC64 GP 450MHz/8MB)	56		11,550.00	646,800.00	0.00	/5yr	0.00
GP7N2M51U	Additional Memory (512MB)	88		3,150.00	277,200.00	0.00	/5yr	0.00
GP7N2M61U	Additional Memory (1024MB)	36		6,300.00	226,800.00	0.00	/5yr	0.00
GP7N7FT1U	Additional Fan Tray	7		1,750.00	12,250.00	0.00	/5yr	0.00
GP7N7PU1U	Additional Power Supply	3		2,660.00	7,980.00	0.00	/5yr	0.00
GP7N7FL1U	Disk Unit	2		1,680.00	3,360.00	0.00	/5yr	0.00
GP7N7FL91U	Additional Disk Unit	2		672.00	1,344.00	0.00	/5yr	0.00
GP7N3D91U	9GB 10,000rpm disk	14		697.00	9,758.00	0.00	/5yr	0.00
X1034A-X	Quad FastEthernet Card	1		1,256.50	1,256.50	0.00	/5yr	0.00
X6541A-X	Dual Channel UltraSCSI/D Card	46		1,008.00	46,368.00	0.00	/5yr	0.00
DCBL-SCP20	VHDCI - 68P SCSI cable (20m)	92		260.00	23,920.00	0.00	/5yr	0.00
GP-DIRKS1U	Disk Array (Rack, w/ 32MB cache)	23		24,096.00	554,208.00	3,614.40	/5yr	83,131.20
GP-DIRMS1U	Additional Disk Array (Rack-mount, w/ 32MB cache)	23		20,954.00	481,942.00	3,143.10	/5yr	72,291.30
GP-DHD92U	5 x 9GB 10,000rpm disks	18		3,927.00	70,686.00	589.00	/5yr	10,602.00
GP-DHD182U	5 x 18GB 10,000rpm disks	258		7,845.00	2,024,010.00	1,177.00	/5yr	303,666.00
GP-D1SC1U	Additional RAID Controller (w/ 32MB cache)	46		6,012.00	276,552.00	902.00	/5yr	41,492.00
GP-DPW1U	Additional Power Supply Unit	92		530.00	48,760.00	80.00	/5yr	7,360.00
PP020BP1U	PRIMEPOWER 200/250 for System Console	1		5,270.00	5,270.00			8,891.52
GP7B2M42U	256MB Additional Memory	1		1,445.00	1,445.00	0.00	/5yr	0.00
GP7B3D94U	9.1GB SCSI disk	1		697.00	697.00	0.00	/5yr	0.00
GP7B3DT1U	Internal DDS3 Unit	1		799.00	799.00	0.00	/5yr	0.00
X1033A-U	FastEthernet Card	1		486.50	486.50	0.00	/5yr	0.00
X3668B-U	PGX32 Color FrameBuffer	1		274.35	274.35	0.00	/5yr	0.00
X7143AA	17" Color Monitor	1		693.00	693.00	0.00	/5yr	0.00
Server Hardware Subtotals					5,953,459.35			1,388,580.90
Server Software								
B23P3B7H0H	Solaris 7	1		85.00	85.00	0.00	/5yr	0.00
B23PAV1H0H	ESF (Enhanced Support Facility)	1		96.00	96.00	0.00	/5yr	0.00
GP7N7CL9AU	System Console Software	1		1,300.00	1,300.00	0.00	/5yr	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	/5yr	251,000.00
B23G870CB	SymfoWARE Server Enterprise Edition for VLM 16 Processor License	3		170,000.00	510,000.00	170,000.00	/5yr	510,000.00
B23P251HNH	SynfinityDisk	1		832.00	832.00	0.00	/5yr	0.00
Server Software Subtotals					763,313.00			761,000.00
Client Hardware								
GP5T3CB1A	PRIMERGY ES320 w/ 1 x Pentium III 800BMHz, 256MB memory, 1 x 10/100Base-TX	32		2,845.00	91,040.00			1,121.00
GP5-FG22B	Pentium III (800BMHz)	32		652.00	20,864.00	0.00	/5yr	0.00
GP5-RM25M	256MB memory	64		625.00	40,000.00	0.00	/5yr	0.00
GP5-HDH9D	9GB SCSI disk	32		457.00	14,624.00	0.00	/5yr	0.00
GP5-185	FastEthernet Adapter (10/100Base-TX)	64		133.00	8,512.00	0.00	/5yr	0.00
X7143AA	17" Monitor	32		693.00	22,176.00	0.00	/5yr	0.00
Client Hardware Subtotals					197,216.00			1,121.00
Client Software								
	Microsoft Windows NT Server 4.0, include 5 CALs	32	1	809.00	25,888.00	0.00	/yr	0.00
	Microsoft Visual C++ Professional 6.0	1	1	549.00	549.00	0.00	/yr	0.00
	Microsoft Software Maintenance	1	1	0.00	0.00	2,095.00	/yr	10,475.00
	BEA Tuxedo 6.4 CFS	32	2	3,000.00	96,000.00	480.00	/yr	76,800.00
Client Software Subtotals					122,437.00			87,275.00
User Connectivity								
WS-2924M-XL-EN	CISCO Catalyst 2924M-XL-EN 10/100 Ethernet Switch (24ports) *	42	3	1,622.00	68,124.00	464.00	/yr	97,440.00
HUB8CT	8-Port RJ45 & BNC Ethernet Hub *	21971	4	40.00	878,840.00	0.00	/yr	0.00
User Connectivity Subtotals					946,964.00			97,440.00
Totals					7,983,389.35			2,335,416.90
5 Year cost								10,318,807
tpmC								183,770.97
\$ / tpmC								56.16
* : 10% or minimum of 2 spares are included.								
Third Party : 1 = Microsoft Corporation								
2 = BEA Systems								
3 = Fujitsu Systems Business of America, Inc.								
4 = MicroWarehouse, Inc.								

Notes:
 Results independently audited by Bradley J. Askins 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.

Numerical Quantities Summary							
PRIMEPOWER 2000 c/s w/ 32 Front-Ends							
SymfoWARE Server Enterprise Edition for VLM 3.0							
MQTH, Computed Maximum Qualified Throughput					183,770.97 tpmC		
Response Times (in seconds)		Average		90%		Max.	
New-Order		1.98		4.21		45.88	
Payment		1.83		4.02		44.30	
Order-Status		1.85		4.06		34.43	
Delivery (interactive portion)		0.27		0.48		11.40	
Delivery (deferred portion)		1.95		4.06		31.83	
Stock-Level		1.78		3.96		33.01	
Menu		0.26		0.25		11.40	
Transaction Mix, in percent of total transaction							
New-Order						44.80	
Payment						43.08	
Order-Status						4.06	
Delivery						4.03	
Stock-Level						4.03	
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			18.06 0.02		18.08 12.04		18.55 120.31
Payment			3.05 0.02		3.07 12.04		3.52 120.29
Order-Status			2.05 0.02		2.07 10.07		2.48 100.45
Delivery (interactive)			2.05 0.02		2.07 5.07		2.48 50.24
Stock-Level			2.05 0.02		2.07 5.05		2.47 50.41
Test Duration							
Ramp-up time (seconds)						2,720	
Measurement interval						1,800	
Transactions during measurement interval						12,305,936	
Checkpointing							
Number of checkpoints						1	
Checkpoint interval						1,800	
Reproducibility Run							
Reported measurement						183,770.97	
Reproducibility measurement						182,267.86	
Difference						0.82%	