
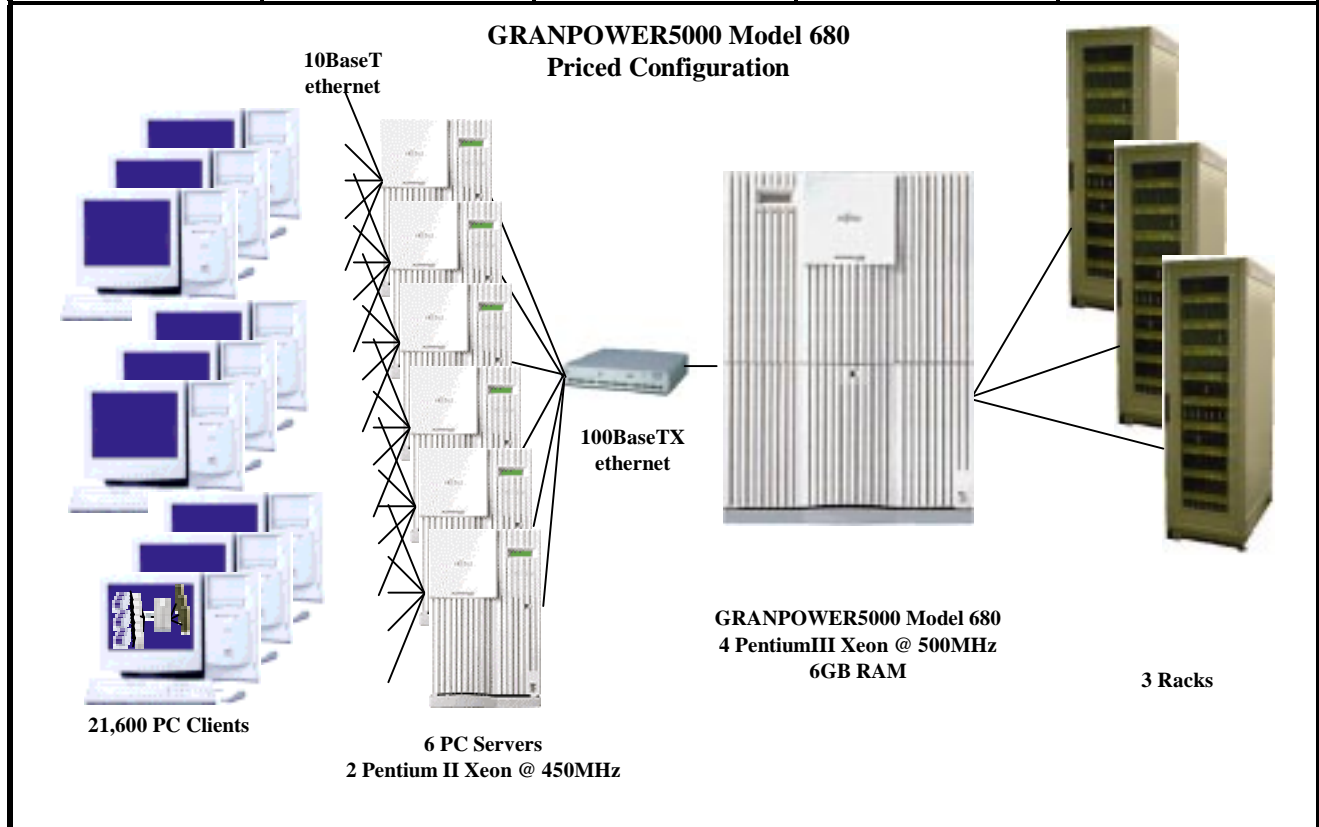


Priced Configuration


		<h1 style="text-align: center;">GRANPOWER5000</h1> <h2 style="text-align: center;">Model 680 c/s w/ 6 Front-Ends</h2>		TPC-C Rev 3.4	
				Report Date: July 17, 1999	
Total System Cost \$726,817		TPC-C Throughput 25,440.60 tpmC		Price/Performance \$28.57/tpmC	
				Availability Date January 16, 2000*	
Processors		Database Manager		Operating system	
4 PentiumIII Xeon @ 500MHz		SymfoWARE Server Enterprise Edition for VLM V1.1 L41		Microsoft Windows NT Server 4.0 Enterprise Edition	
				Other Software	
				BEA Tuxedo 6.4 CFS, Fujitsu COBOL V4, Microsoft Internet Information Server	
				Number of users 21,600	



RDBMS SERVER			CLIENTS(EACH OF 6)	
	QTY	DESCRIPTION	QTY	DESCRIPTION
PROCESSOR	4	PENTIUMIII XEON @ 500MHZ	2	PENTIUMII XEON @ 450MHZ
CACHE MEMORY		2MB (EACH PROCESSOR)		512KB EACH (4OF6), 1MB EACH(2 OF 6)
MEMORY		6GB		512MB
DISK CONTROLLER	9	ULTRA WIDE DIFFERENTIAL SCSI (3 CHANNELS)	1	WIDE-SCSI
DISKS	145	18GB (10,000RPM)	1	4GB
	84	9GB (10,000RPM)		
TOTAL		3,169.23GB		
TERMINAL	1	CONSOLE TERMINAL	1	17" MONITOR
NETWORK INTERFACE	1	FASTETHERNET ADAPTER	7	1 FASTETHERNET ADAPTER, 6 ETHERNET ADAPTERS
HUBS	1	24-PORT (100 BASE-TX)	2,720	COMPEX MICROHUB (8 PORTS)

*Hardware already available

Detailed Pricing Information

		Detailed Pricing Information GRANPOWER5000 Model 680 c/s w/ 6 Front-Ends			TPC-C Rev 3.4 Report Date: July 17, 1999		
Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit	5 Years Maintenance
Server Hardware							
GP5M890AL	GRANPOWER5000 model 680 w/ 1 x Pentium III 500MHz/2MB, 256MB memory, 0GB disk	1		13,498.00	13,498.00	1,000.00/yr	5,000.00
GP5-FG10T	Pentium III Xeon (500MHz/2MB)	3		5,924.00	17,772.00	0.00/yr	0.00
GP5-RM1G	1024MB ECC RAM Upgrade	4		4,058.00	16,232.00	0.00/yr	0.00
GP5-RM51G	512MB ECC RAM Upgrade	4		1,672.00	6,688.00	0.00/yr	0.00
GP5-144	Mylex DAC1164P RAID controller w/ 32MB cache	9		2,789.00	25,101.00	0.00/yr	0.00
GP5-R1RC2	19" Rack Mount	3		2,817.00	8,451.00	0.00/yr	0.00
GP5UR1DC2	Hard Disk Cabinet	28		2,025.00	56,700.00	0.00/yr	0.00
GP5S-852	VHDCI-VHDCI SCSI Cable (3.0m)	27		47.00	1,269.00	0.00/yr	0.00
GP5-125	SCSI Adapter (Ultra-2 Wide)	1		277.00	277.00	0.00/yr	0.00
GP5MU823A	SCSI Cable (3.0m)	1		121.00	121.00	0.00/yr	0.00
GP5-HDH94	9GB 10,000rpm disk	84		831.00	69,804.00	0.00/yr	0.00
GP5-HDH82	18GB 10,000rpm disk	145		1,508.00	218,660.00	0.00/yr	0.00
TMSRVR-OPTION-5929	17" Monitor (Universal)	1		499.00	499.00	0.00/yr	0.00
GP5UDT301	12GB Internal DDS-3 DAT Drive	1		1,058.00	1,058.00	0.00/yr	0.00
Server Hardware Subtotals					436,130.00		5,000.00
Server Software							
	Microsoft Windows NT 4.0 Server Enterprise Edition, included 25 CALs	1		3,819.00	3,819.00	0.00/yr	0.00
B23J01008	SymfoWARE Server Enterprise Edition for VLM V1.1 L41	1		40,000.00	40,000.00	20,000.00/5yr	20,000.00
	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
Server Software Subtotals					44,368.00		30,475.00
Client Hardware							
GP5L850L	GRANPOWER 5000 model 580 w/ 1 x Pentium II Xeon 450MHz/1MB, 128MB memory, 0GB disk, 1 10/100Base-TX	2		7,322.00	14,644.00	600.00/5yr	1,200.00
GP5-FG10K	Pentium II Xeon (450MHz/1MB)	2		3,763.00	7,526.00	0.00/yr	0.00
GP5L840L	GRANPOWER 5000 model 580 w/ 1 x Pentium II Xeon 450MHz/512KB, 128MB memory, 0GB disk, 1 10/100Base-TX	4		5,143.00	20,572.00	600.00/5yr	2,400.00
GP5-FG10H	Pentium II Xeon (450MHz/512KB)	4		1,584.00	6,336.00	0.00/yr	0.00
GP5-RM12G	128MB (4 x 32MB) Memory	18		347.00	6,246.00	0.00/yr	0.00
GP5-HDH45	Internal HDD (4GB)	6		415.00	2,490.00	0.00/yr	0.00
GP5-182	FastEthernet Adapter (10/100Base-TX)	36		82.00	2,952.00	0.00/yr	0.00
TMSRVR-OPTION-5929	17" Monitor (Universal)	6		499.00	2,994.00	0.00/yr	0.00
Client Hardware Subtotals					63,760.00		3,600.00
Client Software							
	Microsoft Windows NT Server 4.0, include 5 CALs	6		809.00	4,854.00		
	Fujitsu COBOL V4 Standard Edition	1		750.00	750.00	150.00/yr	750.00
	BEA Tuxedo 6.4 CFS	6	2	3,000.00	18,000.00	450.00/yr	13,500.00
Client Software Subtotals					23,604.00		14,250.00
User Connectivity							
	CISCO Catalyst 2924XL 10/100 Ethernet Switch (24ports) *	3	3	2,210.00	6,630.00	0.00/yr	0.00
TP1008C	8-Port RJ45 & BNC Ethernet Hub *	3000	3	33.00	99,000.00	0.00/yr	0.00
User Connectivity Subtotals					105,630.00		0.00
Totals					673,492.00		53,325.00
5 Year cost							726,817
tpmC							25,440.60
\$/ tpmC							28.57
* : 10% or minimum of 2 spares are included.							
Third Party :	1 = Microsoft Corporation						
	2 = BEA Systems						
	3 = SSP DATA PRODUCTS						
Notes: Results independently audited by Francois Raab of InfoSizing, Inc. 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 GRANPOWER5000 Model 680 c/s w/ 6 Front-Ends SymfoWARE Server Enterprise Edition for VLM V1.1 L41									
MQTH, Computed Maximum Qualified Throughput						25,440.60 tpmC			
Response Times (in seconds)				Average	90%	Max.			
New-Order				1.65	3.35	24.65			
Payment				1.60	3.28	25.44			
Order-Status				1.59	3.28	15.73			
Delivery (interactive portion)				0.18	0.16	6.05			
Delivery (deferred portion)				1.85	3.50	13.79			
Stock-Level				1.61	3.31	16.86			
Menu				0.16	0.15	4.49			
Transaction Mix, in percent of total transaction									
New-Order						44.82			
Payment						43.02			
Order-Status						4.08			
Delivery						4.04			
Stock-Level						4.04			
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				18.10	0.02	18.12	12.05	18.27	120.27
Payment				3.04	0.02	3.07	12.07	3.19	120.35
Order-Status				2.05	0.02	2.07	10.21	2.17	93.16
Delivery (interactive)				2.05	0.02	2.07	5.06	2.16	49.82
Stock-Level				2.05	0.02	2.07	5.06	2.19	47.27
Test Duration									
Ramp-up time (seconds)						1,740			
Measurement interval						1,800			
Transactions during measurement interval						763,218			
Checkpointing									
Number of checkpoints						1			
Checkpoint interval						1,800			
Reproducibility Run									
Reported measurement						25,440.60			
Reproducibility measurement						25,432.20			
Difference						0.03%			