
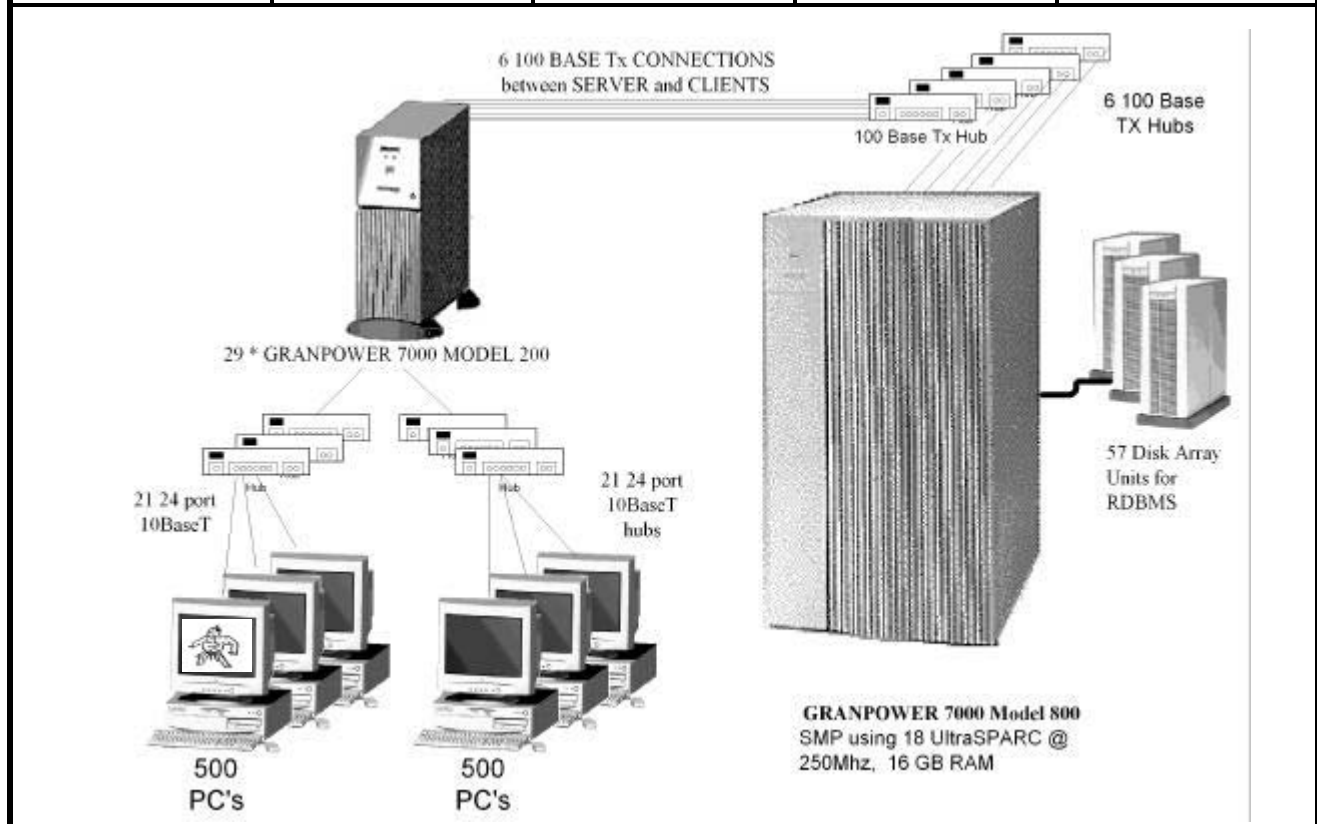


Priced Configuration


		GRANPOWER 7000 Model 800 c/s w/ 29 Front-Ends		TPC-C Rev 3.3.2 Report Date: February 6th, 1998	
Total System Cost ¥1,974,793,750		TPC-C Throughput 34,116.93 tpmC		Price/Performance ¥57,883/tpmC	
				Availability Date July 31st, 1998	
Processors 18 UltraSPARC @250Mhz		Database Manager Oracle8 Enterprise Edition for VLM V80L10		Operating system UXP/DS Basic Software V20L30	
				Other Software TP-Base V20 LVCV V22 Oracle WebServer V02	
				Number of users 29,000	



RDBMS SERVER			CLIENTS	
SYSTEM COMPONENTS	QTY	DESCRIPTION	QTY	DESCRIPTION
PROCESSOR	18	ULTRASPARC @ 250MHZ	29	28 WITH 2 ULTRASPARC @ 250MHZ, 1 WITH 2 ULTRASPARC @ 300MHZ
CACHE MEMORY		4MB (EACH PROCESSOR)		2 MB (EACH) FOR 300MHZ, 1MB (EACH) FOR 250MHZ
MEMORY		16GB	29	256 MB
DISK CONTROLLER	56	WIDE SCSI-2	29	WIDE SCSI 2(1 CHANNEL)
DISKS	760	2.0GB DISK	29	2.0GB DISK
	380	4.0GB DISK		
TERMINAL	1	CONSOLE	58	CONSOLE
NETWORK INTERFACE	6	100 BASE-TX	58	10BASET
HUBS	6	8-PORT (100 BASE-TX)	1,218	CENTRECOM 3024TR HUB UNITS (24 PORTS)
PC'S			29,000	PC'S RUNNING WEB BROWSERS

Numerical Quantities Summary								
GRANPOWER 7000 Model 800 c/s w/ 29 Front-Ends								
Oracle8 Enterprise Edition for VLM V80L10								
MQTH, Computed Maximum Qualified Throughput						34,116.93 tpmC		
Response Times (in seconds)				Average		90%	Max.	
New-Order				1.53		2.82	206.69	
Payment				1.19		2.46	208.68	
Order-Status				1.27		2.58	112.82	
Delivery (interactive portion)				0.24		0.32	95.22	
Delivery (deferred portion)				1.60		2.54	7.37	
Stock-Level				1.69		3.46	148.51	
Menu				0.30		0.32	227.87	
Transaction Mix, in percent of total transaction								
New-Order						44.68		
Payment						43.16		
Order-Status						4.07		
Delivery						4.05		
Stock-Level						4.04		
Emulation Delay (in seconds)					Resp. Time		Menu	
New-Order					0.1		0.1	
Payment					0.1		0.1	
Order-Status					0.1		0.1	
Delivery (interactive)					0.1		0.1	
Stock-Level					0.1		0.1	
Keying/Think Times (in seconds)				Min.		Average		Max.
New-Order				18.09 0.01		18.11 12.10		18.38 121.18
Payment				3.04 0.01		3.06 12.12		3.32 121.19
Order-Status				2.04 0.01		2.06 10.31		2.32 100.75
Delivery (interactive)				2.04 0.01		2.06 5.10		2.32 49.88
Stock-Level				2.04 0.01		2.06 5.14		2.32 49.73
Test Duration								
Ramp-up time (seconds)						1630		
Measurement interval						1800		
Transactions during measurement interval						1,023,508		
Ramp down time								
Checkpointing								
Number of checkpoints						1		
Checkpoint interval						1800		
Reproducibility Run								
Reported measurement						34,116.93		
Reproducibility measurement						33,776.27		
Difference						340.66		

Detailed Pricing Information

	Detailed Pricing Information GRANPOWER 7000 Model 800 c/s w/ 29 Front-Ends	TPC-C Rev 3.3.2 Report Date: February 6th, 1998
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Order Number	Description	Quantity	Third Party	Unit Price	Extended Price	Maintenance rate/unit*	5 Years Maintenance
Server Hardware							
GP780A1	GRANPOWER 7000 model 800	1		60,000,000	60,000,000	250,000 /mo	13,500,000
	4 UltraSPARC 250MHz/4MB cache + 2GB memory + 5 4GB/DE						
GP781A11	CPU boards w/ 4 UltraSPARC 250MHz/4MB cache	3		16,000,000	48,000,000	66,700 /mo	10,805,400
GP788SB1	SBus I/O boards	2		2,140,000	4,280,000	10,700 /mo	1,155,600
GP781A12	CPU board w/ 2 UltraSPARC 250MHz/4MB cache + Sbus I/O Board	1		9,070,000	9,070,000	38,700 /mo	2,089,800
GP782M61	Additional memory (1GB)	14		9,560,000	133,840,000	0 /mo	0
F7949RA31	External Cabinet	2		630,000	1,260,000	3,200 /mo	345,600
F7978SB2	SBus extention unit	4		900,000	3,600,000	4,500 /mo	972,000
F7978SB3	Additional SBus extention unit	3		600,000	1,800,000	3,000 /mo	486,000
F7958HS1	Wide SCSI-2 adapter	56		250,000	14,000,000	0 /mo	0
GP-D8S1	Disk Array unit w/ 5 2GB/DE	30		4,850,000	145,500,000	24,300 /mo	39,366,000
GP-D8HD1	Additional Disk Array drives (5 2GB/DE)	90		1,080,000	97,200,000	5,400 /mo	26,244,000
GP-D16S1	Disk Array unit w/ 5 4GB/DE	19		5,700,000	108,300,000	28,500 /mo	29,241,000
GP-D16HD1	Additional Disk Array drives (5 4GB/DE)	57		1,930,000	110,010,000	9,700 /mo	29,856,600
GP-DSC1	Additional Disk Array controller	40		870,000	34,800,000	4,400 /mo	9,504,000
F7915AR11	Disk Array unit w/ 5 2GB/DE	8		5,100,000	40,800,000	25,500 /mo	11,016,000
F7915AR31A	Additional Disk Array drives (5 2GB/DE)	24		1,200,000	28,800,000	6,000 /mo	7,776,000
F7915AR51	Additional Disk Array controller	8		950,000	7,600,000	4,800 /mo	2,073,600
F987AA11	Uninterrupted Power Supply	48		186,000	8,928,000	1,400 /mo	3,628,800
F7960A11	Display unit	1		380,000	380,000	1,500 /mo	81,000
SCBL-RSA05	RS-232 cable	1		25,000	25,000	0 /mo	0
GP723ET2	8mm Tape device	1		600,000	600,000	3,000 /mo	162,000
Server Hardware Subtotals					858,793,000		188,303,400
Server Software							
D7831DK95	UXP/DS Basic Software V20	1		962,000	962,000	990,000 /yr	4,950,000
	Oracle8 Enterprise Edition for VLM V80L10 & SQL*Net	1	1	193,228,425	193,228,425	193,228,425 /5yr	193,228,425
B7836KM2N	LVCF V22	1		1,600,000	1,600,000	0 /yr	0
Server Software Subtotals					195,790,425		198,178,425
Client Hardware							
GP720B2	GRANPOWER 7000 model 200 (250MHz, 2GB disk)	28		2,620,000	73,360,000	10,900 /yr	16,480,800
GP721B11	Additional CPU module (250MHz)	28		2,300,000	64,400,000	9,600 /yr	14,515,200
GP720B1	GRANPOWER 7000 model 200 (300MHz, 2GB disk)	1		3,320,000	3,320,000	13,800 /yr	745,200
GP721B11	Additional CPU module (300MHz)	1		3,000,000	3,000,000	12,500 /yr	675,000
GP722M31A	Additional memory (128MB)	58		880,000	51,040,000	0 /yr	0
F7958LA1	10Mbps LAN adapter	58		120,000	6,960,000	0 /yr	0
F7960A11	Display unit	29		380,000	11,020,000	1,500 /yr	2,349,000
DCBL-RCB05	RS-232 cable	29		16,000	464,000	0 /yr	0
Client Hardware Subtotals					213,564,000		34,765,200
Client Software							
D7831DK6Z	UXP/DS Basic Software V20	1		2,062,000	2,062,000	440,000 /yr	2,200,000
S7831DK0Z	Additional user license	2		1,698,000	3,396,000	352,000 /yr	3,520,000
S7831DK0Z	Additional user license	3		1,698,000	5,094,000	286,000 /yr	4,290,000
S7831DK0Z	Additional user license	23		1,698,000	39,054,000	242,000 /yr	27,830,000
B783KE23A	Oracle7 WebServer V02	29		380,000	11,020,000	100,000 /yr	14,500,000
D783HZK60	TP-Base/sdk V20 (1 user)	1		300,000	300,000	33,000 /yr	165,000
D783HUK62	TP-Base/rt V20 (8 user)	1		500,000	500,000	27,500 /yr	137,500
S783HUK02	Additional user license	28		400,000	11,200,000	27,500 /yr	3,850,000
Client Software Subtotals					72,626,000		56,492,500
User Connectivity							
SH2510	100BASE-TX Switching Hub units (8ports) *	8		700,000	5,600,000	3,500 /mo	1,512,000
3024TR	CentreCOM 3024TR Hub units (24ports) *	1340	2	89,800	120,332,000	5,380 /yr	28,836,800
User Connectivity Subtotals					125,932,000		30,348,800
Totals					1,466,705,425		508,088,325
5 Year cost							1,974,793,750
tpmC							34116.93
Yen / tpmC							57,883

Third Party Pricing:
 1 = Oracle Corporation Japan
 2 = Allied Telesis, K.K.

Notes:

- Allied Telesys hubs have a 1 year warranty. An additional 48 months of maintenance has been included in the above pricing.
- Audited by Performance Metrics Inc.
- Japanese yen prices are not convertible to other currencies at exchange rates.
- GRANPOWER hardware has a 6 month warranty. Thus to cost 5 years of hardware maintenance, a total of 54 months is calculated.

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.