FUĴÎTSU	PRIMER	TPC-C REV 5.0 EXECUTIVE SUMMARY Report Date: January 21, 2003		
10,1150	C/S with 3 PR			
Total System Cost	TPC-C Throughput	Price/Performance	Availa	ability Date
Yen 78,549,210	68,264.47 tpmC	Yen 1,150.66/tpmC	July 20, 2003	
Processors	Database Manager	Operating System	Other Software	Number of Users
Server 4 Intel Xeon TM MP 2.00 GHz with 2M iL3 Cache Client 3 x 2 Intel Pentium® III 1400 MHz with 512 KB SLC	Microsoft SQL Server 2000 Enterprise Edition SP3	Microsoft Windows .NET Server 2003 Enterprise Edition	Windows 2000 Server, IIS 5.0 and COM+	55000
Terminals: 55000 User	Client: 2 x PRIMERGY C200 18300 users per client 1 x PRIMERGY C200 18400 users per client	Server: PRIMERGY R450 7 SCSI Controller	Storage: 25 x PRIMERGY: 288 disk 18GB 10 disks 36 GB	S30
		00000	00000	
		0000	0000	
100 M	lbs 2 Gb/s FC Swit	ch		

System Components	Qty/Srv.	1 PRIMERGY R450	Qty/Client	3 PRIMERGY C200
Processors	4	Intel Xeon TM MP 2.00 GHz with 2M iL3 Cache	2	Intel Pentium® III 1400 MHz with512 KB SLC
Memory	16	GB	768	MB
Disk Controller	7	Mylex eXtremeRAID 2000	1	SCSI Controller
Disk Drives	289 10	18 GB 36 GB	1	18 GB
Total GB of Storage	1	4,865 GB		
Tape Drive	1	20 GB DAT		



PRIMERGY R450

TPC-C REV 5.0 EXECUTIVE SUMMARY

C/S with 3 PRIMERGY C200

Report Date: January 21, 2003

Description	Part Number	Third Party	Unit Price	Qty.	Extended Price	3yr Maint. Price
		Brand Pricing				
PRIMERGY R450 Xeon-MP 2.0GHz/2MB	PGR4AE1R2	1	1,421,000 Yen	1	1,421,000 Yen	
Processor Xeon MP 2.0 GHz/2MB	PGBFG21E	1	952,000 Yen	3	2,856,000 Yen	
Memory 512MB => 4GB Conversion Kit	PGBRU4M2	1	1,120,000 Yen	3	3,360,000 Yen	
Memory 4GB	PGBRM4M2	1	1,190,000 Yen	3	3,570,000 Yen	
Tape DAT DDS4 20GB	GP5SDT401	1	140,000 Yen	1	140,000 Yen	
18GB, 15k, U160, Hot plug, 1"	PG-HDH85B2	1	84,000 Yen	1	84,000 Yen	
Mylex eXtremeRAID 2000 4x U160 SCSI, BBU	PG-144B	1	294,000 Yen	7	2,058,000 Yen	
Keybord	GP5-R1KB1	1	14,000 Yen	1	14,000 Yen	
Monitor 15"	FMV-DP849W	1	16,100 Yen	1	16,100 Yen	
PRIMERGY S30 GE RH 2-Channel U160 SCSI	PG-R1DC6	1	238,000 Yen	1	238,000 Yen	
SCSI Cable UHD68(S)	PG-CBLS004	1	21,000 Yen	2	42,000 Yen	
3 Year Maintenance Server, 7x24, 4hr Resp.			,		,	2,831,570 Yen
	Server Hardware Subtotal				13,799,100 Yen	
DataCenter Rack	PG-R3RC1	1	238,000 Yen	3	714,000 Yen	
APC-USV 3000VA Rack	GP5-R1UP3	1	271,600 Yen	2	543,200 Yen	
18GB, 15k, U160, Hot plug, 1"	PG-HDH85B2	1	84,000 Yen	288	24,192,000 Yen	
36GB, 15k, U160, Hot plug, 1"	PG-HDH65B	1	175,000 Yen	10	1,750,000 Yen	
PRIMERGY S30 GE RH 1-Ch	PG-R1DC6BZ	1	238,000 Yen	24	5,712,000 Yen	
SCSI Cable UHD68 (S)	PG-CBLS005	1	28,000 Yen	24	672,000 Yen	
3 Year Maintenance Storage, 7x24, 4hr Resp.	1 G-GBEG003		20,000 1611	24	072,000 1611	6,891,270 Yen
3 Teal Maintenance Storage, 7324, 411 Nesp.	Storage Subtotal				33,583,200 Yen	0,031,270 1611
	Maint. Server + Storage				00,000,200 1011	9,722,840 Yen
PRIMERGY C200 GE FS PIII 1.26GHz/512KB	PGC2CP1A2	1	210,000 Yen	3	630,000 Yen	0,722,040 1011
Processor Pentium III 1.26GHz => 1.4GHz	PGBFU12V	1	35,000 Yen	3	105,000 Yen	
Pentium III Processor 1.4GHz 512kB	PGBFG12V	1	140.000 Yen	3	420,000 Yen	
Memory 512MB SDRAM PC133 ECC	PGBRM51HA	1	70.000 Yen	3	210,000 Yen	
Hard Disk 18GB, 10k, U160, hot plug, 1"	PG-HDH81B2	1	56,000 Yen	3	168,000 Yen	
Monitor 15"	FMV-DP849W	1	16,100 Yen	3	48,300 Yen	
3 Year Maintenance, 7x24, 4hr Resp.	FINIV-DF049VV	'	10,100 1611	3	40,300 1611	324,480 Yen
o real mantenance, raz i, mi recep.	Client Hardware Subtotal				1,581,300 Yen	324,480 Yen
Windows .NET Enterprise Server 2003						
(open program no level)	N/A	1	567,200 Yen	1	567,200 Yen	
MS SQL-Server 2000 Ent.Edit. Per Proc Lic.						
(open program level C)	B293C80Y0	1	2,791,700 Yen	4	11,166,800 Yen	
	Server Software Subtotal				11,734,000 Yen	
Windows Svr 2000						
(open program no level)	B511C02A2	1	142,000 Yen	3	426,000 Yen	
VC++ Pro 6.0 Win32	B298C2033	1	84,600 Yen	1	84,600 Yen	
	Client Software Subtotal				510,600 Yen	
Software Support (all above)					,	3,140,730 Yen
Software Support (all above)						3,140,730 Tell
FC Switch 8 Port, 2GBit	SN20M215	1	1,134,250 Yen	1	1,134,250 Yen	
FC GBIC SFP Multi Mode 2 GB	SN20SWSFP	1	42,250 Yen	4	169,000 Yen	
FC Cabel MMF 5m, Connector DLC-DLC	CBL-MLLB05	1	22,750 Yen	4	91,000 Yen	
Qlogic 2350	PG-FC104Z	1	490,000 Yen	4	1,960,000 Yen	
3 Year Maintenance FC, 7x24, 4hr Resp.						798,710 Yen
•	User Connectivity Subtota				3,354,250 Yen	
	Total				64,562,450 Yen	13,986,760 Yen
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Prices used in TPC bechmarks 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 section of the TPC benchmark pricing specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

3 -Year Cost of Ownership: Yen 78,549,210 tpmC Rating: 68,264.47 Yen / tpmC: 1,150.66

Note: The benchmark results and test methodology were audited by Bradley Askins of InfoSizing

1=Fujitsu

Numerical Quantities Summary

MQTh, computed Maximum Qualified Through	68,264.47 tpmC			
Response Times (in seconds)	90th percentile	e Average	Maximum	
- New-Order	0.95	0.58	5.61	
- Payment	0.88	0.52	5.47	
- Order-Status	0.89	0.53	6.00	
- Delivery (interactive portion)	0.12	0.11	0.59	
- Delivery (deferred portion)	0.55	0.31	1.77	
- Stock-Level	1.78	1.29	5.50	
- Menu	0.12	0.11	1.20	
Transaction Mix, in percent of total transac	tions			
- New-Order			44.91 %	
- Payment			43.03 %	
- Order-Status			4.02 %	
- Delivery			4.02 %	
- Stock-Level			4.02 %	
Emulation Delay (in seconds)		Response 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)	Minimum	Average	Maximum	
- New-Order	18.00/0.000	18.02/12.05	18.04/120.51	
- Payment	3.00/0.000	3.02/12.04	3.04/120.51	
- Order-Status	2.00/0.000	2.02/10.02	2.04/100.50	
- Delivery (interactive)	2.00/0.000	2.02/ 5.05	2.03/ 50.50	
- Stock-Level	2.00/0.000	2.02/ 5.06	2.04/ 50.50	
Test Duration and Checkpointing				
- Ramp-up time	46 minutes			
- Measurement interval		120 minute	es	
- Number of checkpoints		4		
- Checkpoint interval		30 minutes		
- Transactions during measurement interval (all types)		18,971,511		