FUJITSU	**PRIMERGY T850** **C/S with 4 PRIMERGY C200**	**TPC-C REV 5.0** **EXECUTIVE SUMMARY**
		Report Date: January 21, 2003

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
Yen 106,739,750	**84,598.42 tpmC**	**Yen 1,261.72/tpmC**	**July 20, 2003**

Processors	Database Manager	Operating System	Other Software	Number of Users
Server 8 Intel Xeon™ MP 1.60 GHz with 1M iL3 SLC **Client 4 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+**	**68000**

Terminals:
68000 User

Client:
4 x PRIMERGY C200
17000 users per client

Server:
PRIMERGY T850 and
PCI Extension Box
7 SCSI Controller

Storage:
25 x PRIMERGY S30
288 disk 18GB
14 disks 36 GB

100 Mbs   **2 Gb/s FC Switch**
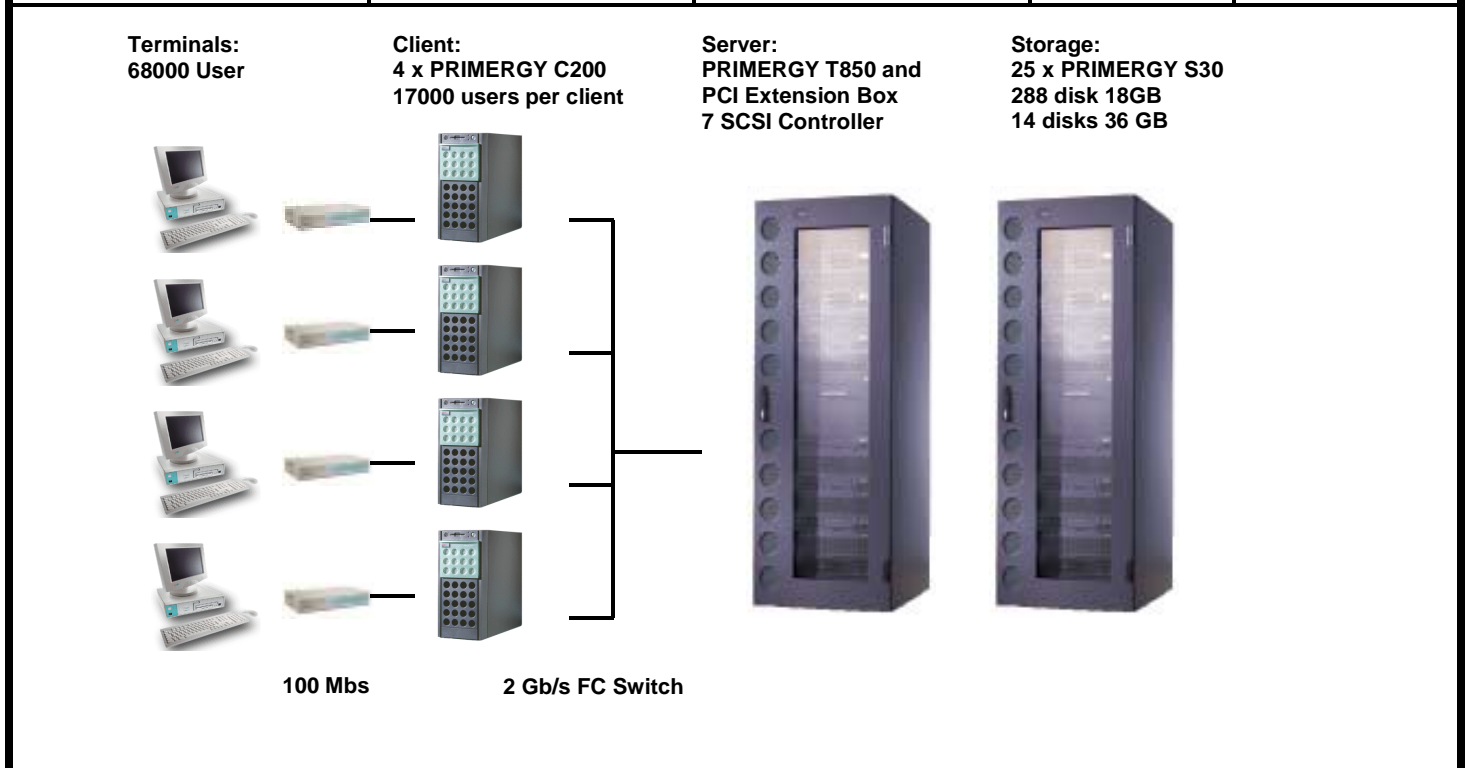
System Components	Qty/Srv.	1 PRIMERGY T850	Qty/Client	4 PRIMERGY C200
Processors	**8**	**Intel Xeon™ MP 1.60 GHz with 1M iL3 SLC**	**2**	**Intel Pentium® III 1400 MHz with512 KB SLC**
Memory	**32**	**GB**	**768**	**MB**
Disk Controller	**7**	**Mylex eXtremeRAID 2000**	**1**	**SCSI Controller**
Disk Drives	**288** **15**	**18 GB** **36 GB**	**1**	**18 GB**
Total GB of Storage	**1**	**4,865 GB**		
Tape Drive	**1**	**20 GB DAT**		

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Description	Part Number	Third Party Brand Pricing	Unit Price	Qty.	Extended Price	3yr Maint. Price
PRIMERGY T850 2x Xeon 1.6 GHz	PGT8A42R	1	4,298,000 Yen	1	4,298,000 Yen	
Xeon MP Processor 1.6 GHz/1MB	PGBFG104	1	952,000 Yen	6	5,712,000 Yen	
CPU/Memory Extension Board	PGBCMB101	1	840,000 Yen	1	840,000 Yen	
RXE-100 Remote Extension Encl.Box	8684-1RX	2	660,000 Yen	1	660,000 Yen	
3 Year Maintenance Ext.Box, 7x24 hr	26L8708	2				171,000 Yen
Remote I/O PCI-X 6 Slot Exp. Kit	31P5998	2	250,000 Yen	1	250,000 Yen	
Memory 4GB SDRAM 133MHz Conversion Kit	PGBRU4L	1	700,000 Yen	1	700,000 Yen	
Main memory 4GB SDRAM 133MHz	PGBRM4L	1	1,190,000 Yen	7	8,330,000 Yen	
Tape DAT DDS4 20GB	GP5SDT401	1	140,000 Yen	1	140,000 Yen	
Disk 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 (OADG without 10-key)	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.						4,611,270 Yen
Server Hardware Subtotal					23,382,100 Yen	4,782,270 Yen
Standard Rack 36HU	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	15	2,625,000 Yen	
PRIMERGY S30 GE RH 1-Ch incl. Spare	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 Rack, 7x24, 4hr Resp.						7,070,820 Yen
Storage Subtotal					34,458,200 Yen	
Maint. Server + Storage						11,853,090 Yen
PRIMERGY C200 BU FS PIII 1.2GHz/512KB	PG2CP1A2	1	210,000 Yen	4	840,000 Yen	
Processor PIII 1.2->1.4GHz/512KB Conversion Kit	PGBFU12V	1	35,000 Yen	4	140,000 Yen	
Pentium III Processor 1.4GHz 512kB	PGBFG12V	1	140,000 Yen	4	560,000 Yen	
Memory 512MB SDRAM PC133 ECC	PGBRM51HA	1	70,000 Yen	4	280,000 Yen	
Hard Disk 18GB, 10k, U160, hot plug, 1"	PG-HDH81B2	1	56,000 Yen	4	224,000 Yen	
Monitor 15"	FMV-DP849W	1	16,100 Yen	4	64,400 Yen	
3 Year Maintenance, 7x24, 4hr Resp.						432,640 Yen
Client Hardware Subtotal					2,108,400 Yen	432,640 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)	B293C80YO	1	2,791,700 Yen	8	22,333,600 Yen	
Server Software Subtotal					22,900,800 Yen	
Windows Svr 2000 (open program no level)	B511C012A1	1	142,000 Yen	4	568,000 Yen	
VC++ Pro 6.0 Win32	B298C2033	1	84,600 Yen	1	84,600 Yen	
Client Software Subtotal					652,600 Yen	
Microsoft Software Support (all above)						6,041,440 Yen
FC Switch 8 Port, 2GBit	SN20M215	1	1,134,250	1	1,134,250 Yen	
FC GBIC SFP Multi Mode 2 GB	SN20SWSFP	1	42,250	6	253,500 Yen	
Cable FC Cu, 5m, HSSDC / HSSDC	CBL-MLLB05	1	22,750	6	136,500 Yen	
FC card Qlogic 2350	PG-FC104Z	1	490,000	5	2,450,000 Yen	
3 Year Maintenance, 7x24, 4hr Resp.						936,230 Yen
User Connectivity Subtotal					3,974,250 Yen	
Total					87,476,350 Yen	19,263,400 Yen

1=Fujitsu, 2=IBM

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 106,739,750
tpmC Rating:	84,598.42
Yen / tpmC:	1,261.72

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

Numerical Quantities Summary

MQTh, computed Maximum Qualified Throughput			84,598.42 tpmC
Response Times (in seconds)	**90th percentile**	**Average**	**Maximum**
- New-Order	0.89	0.53	5.73
- Payment	0.85	0.49	4.75
- Order-Status	0.83	0.48	4.94
- Delivery (interactive portion)	0.12	0.11	1.40
- Delivery (deferred portion)	0.29	0.18	1.80
- Stock-Level	1.37	0.91	5.15
- Menu	0.12	0.11	1.40
Transaction Mix, in percent of total transactions			
- New-Order			44.91 %
- Payment			43.03 %
- Order-Status			4.02 %
- Delivery			4.01 %
- 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	3.02/12.05	3.04/120.51
- Order-Status	2.00/0.000	2.02/10.02	2.04/100.51
- Delivery (interactive)	2.00/0.000	2.02/ 5.04	2.04/ 50.51
- Stock-Level	2.00/0.000	2.02/ 5.06	2.04/ 50.51
Test Duration and Checkpointing			
- Ramp-up time		47 minutes	
- Measurement interval		120 minutes	
- Number of checkpoints		4	
- Checkpoint interval		30 minutes	
- Transactions during measurement interval (all types)		23,510,232	