



PRIMERGY TX300
C/S with 2 PRIMERGY C200

TPC-C REV 5.1
 EXECUTIVE SUMMARY

Report Date: August 13, 2003

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$ 205,056	53,691.33 tpmC	\$ 3.82/tpmC	September 1, 2003	
Processors	Database Manager	Operating System	Other Software	Number of Users
Server 2 Intel Xeon™ 3.06 GHz with 1M iL3 Cache Client 2 x 2 Intel Pentium® III 1400 MHz with 512 KB SLC	Microsoft SQL Server 2000 Enterprise Edition SP3	Microsoft Windows Server 2003 Enterprise Edition	Microsoft Windows 2003 Server w/ IIS 6.0 and COM+ Microsoft Visual C++	42800

Terminals:
42800 Users

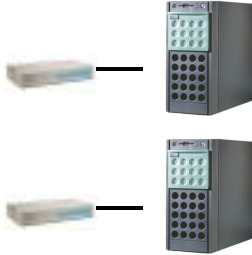
Client:
2 x PRIMERGY C200
21400 users per client

Server:
PRIMERGY TX300
12 GB Memory
5 SCSI Controller

Storage:
15 x PRIMERGY S30
210 disks 18GB



100 Mbs



2 x 100 Mbs



System Components	Qty/Srv.	1 PRIMERGY TX300	Qty/Client	2 PRIMERGY C200
Processors	2	Intel Xeon™ 3.06 GHz with 1M iL3 Cache	2	Intel Pentium® III 1400 MHz with 512 KB SLC
Memory	12	GB	512	MB
Disk Controller	5	Mylex eXtremeRAID 2000	1	SCSI Controller
Disk Drives	211	18 GB	1	18 GB
Total GB of Storage	1	3,311 GB		
Tape Drive	1	20 GB DAT		



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Description	Part Number	Third Party	Unit Price	Qty.	Extended Price	3yr Maint. Price
Brand Pricing						
PRIMERGY PY TX300f X/3.06/1M 512M	S26361-K881-V135	1	3,471 \$	1	3,471 \$	
Processor XEON DP 3.06GHz/1M/533MHz	S26361-F2827-E800	1	1,569 \$	1	1,569 \$	
Memory 2x2GB DDR-RAM PC2100 ECC	S26361-F2762-E526	1	4,033 \$	3	12,099 \$	
Tape DAT DDS4 20GB	S26361- F2233- E3	1	682 \$	1	682 \$	
HDD U320 10k 36GB hot plug 1"	S26361-F2764-E136	1	286 \$	1	286 \$	
Mylex eXtremeRAID 2000 4x U160 SCSI, BBU	S26361- F2190- E128	1	2,102 \$	5	10,510 \$	
PRIMERGY S30 GE RH 2-Ch	SNP:SY-K638V210-P	1	2,374 \$	1	2,374 \$	
Mountingkit 19" Racks f. S30 / S60	S26361-F2734-E20	1	180 \$	1	180 \$	
SCSI Cable UHD68 (S)	SNP: SY- F2365L20- P	1	138 \$	2	276 \$	
Keyboard KBPC P2	S26381-K240-V122	1	34 \$	1	34 \$	
Monitor CRT 15" 151E	S26361- K819- V150	1	135 \$	1	135 \$	
3 Year Maintenance High End Server, 7x24, 4hr Resp.	FPC58-0731-01	1	1,375 \$			1,375 \$
Server Hardware Subtotal					31,616 \$	
DataCenter Rack 46 HU	SNP: SY- K614V104- P	1	2,143 \$	1	2,143 \$	
APC-USV 3000VA Floorstand	FPCUPS0005	1	1,157 \$	1	1,157 \$	
18GB, 15k, U160, Hot plug, 1"	S26361-F2336-E518	1	323 \$	210	67,830 \$	
18GB, 15k, U160, Hot plug, 1" (spare)	S26361-F2336-E518	1	323 \$	21		6,783 \$
PRIMERGY SX30 GE RH 1-Ch	SNP:SY-K638V230-P	1	2,374 \$	14	33,236 \$	
PRIMERGY SX30 GE RH 1-Ch (spare)	SNP:SY-K638V230-P	1	2,374 \$	2		4,748 \$
Mountingkit 19" Racks f. S30 / S60	S26361-F2734-E20	1	180 \$	14	2,520 \$	
Mountingkit 19" Racks f. S30 / S60 (spare)	S26361-F2734-E20	1	180 \$	2		360 \$
SCSI Cable UHD68 (S)	SNP: SY- F2365L20- P	1	138 \$	14	1,932 \$	
SCSI Cable UHD68 (S) (spare)	SNP: SY- F2365L20- P	1	138 \$	2		276 \$
Storage Subtotal					108,818 \$	12,167 \$
Maint. Server + Storage					13,542 \$	
PRIMERGY C200 GE FS PIII 1.4GHz/512KB	S26361-K836-V134	1	1,148 \$	2	2,296 \$	
Pentium III Processor 1.4GHz 512kB	S26361-F2599-E140	1	572 \$	2	1,144 \$	
Memory 512MB SDRAM PC133 ECC	S26361-F2306-E523	1	290 \$	2	580 \$	
Hard Disk 18GB, 10k, U160, hot plug, 1"	SNP:SY-F2336E118-P	1	295 \$	2	590 \$	
Fast Ethernet Adapter 10/100TX	S26361-F2643-E1	1	79 \$	2	158 \$	
CD- ROM, ATAPI	SNP:SY-F2240E1-A	1	37 \$	2	74 \$	
Monitor CRT 15" 151E	S26361- K819- V150	1	135 \$	2	270 \$	
Keyboard KBPC P2	S26381-K240-V122	1	34 \$	2	68 \$	
3 Year Maintenance Low End Server, 7x24, 4hr Resp.	FPC58-0731-01	1	750 \$	2		1,500 \$
Client Hardware Subtotal					5,180 \$	1,500 \$
Microsoft Windows Server 2003 Enterprise Edition	P72-00264	2	2,399 \$	1	2,399 \$	
Microsoft SQL Server 2000 Enterprise Edition (per proc license)	810-00845	2	17,279 \$	2	34,558 \$	
Server Software Subtotal					36,957 \$	
Microsoft Windows Server 2003 Standard Edition	P73-00295	2	738 \$	2	1,476 \$	
Visual C++ Standard	254-00170	2	109 \$	1	109 \$	
Client Software Subtotal					1,585 \$	
Database Server Support Package 1 year	PRO-PRORS-16U-01	2				5,850 \$
Crossover cable	CBLCS07	3	2 \$	4	8 \$	
User Connectivity Subtotal					8 \$	
Total					184,164 \$	20,892 \$

1=Fujitsu-Siemens, 2=Microsoft, 3=Lan Adapters

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 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:	\$ 205,056
tpmC Rating:	53,691.33
\$ / tpmC:	3.82

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

Numerical Quantities Summary

MQTh, computed Maximum Qualified Throughput		53,691.33 tpmC	
Response Times (in seconds)	90th percentile	Average	Maximum
- New-Order	0.60	0.35	6.42
- Payment	0.53	0.28	1.87
- Order-Status	0.55	0.30	8.21
- Delivery (interactive portion)	0.12	0.11	1.12
- Delivery (deferred portion)	0.32	0.18	1.11
- Stock-Level	1.60	1.09	3.46
- Menu	0.12	0.12	1.47
Transaction Mix, in percent of total transactions			
- New-Order			44.93 %
- Payment			43.00 %
- Order-Status			4.02 %
- Delivery			4.01 %
- Stock-Level			4.03 %
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	18.01/12.05	18.03/120.51
- Payment	3.00/0.000	3.01/12.04	3.04/120.51
- Order-Status	2.00/0.000	2.01/10.02	2.03/100.50
- Delivery (interactive)	2.00/0.000	2.01/ 5.05	2.03/ 50.50
- Stock-Level	2.00/0.000	2.01/ 5.06	2.03/ 50.50
Test Duration and Checkpointing			
- Ramp-up time		37 minutes	
- Measurement interval		120 minutes	
- Number of checkpoints		4	
- Checkpoint interval		30 minutes	
- Transactions during measurement interval (all types)		14,916,494	