



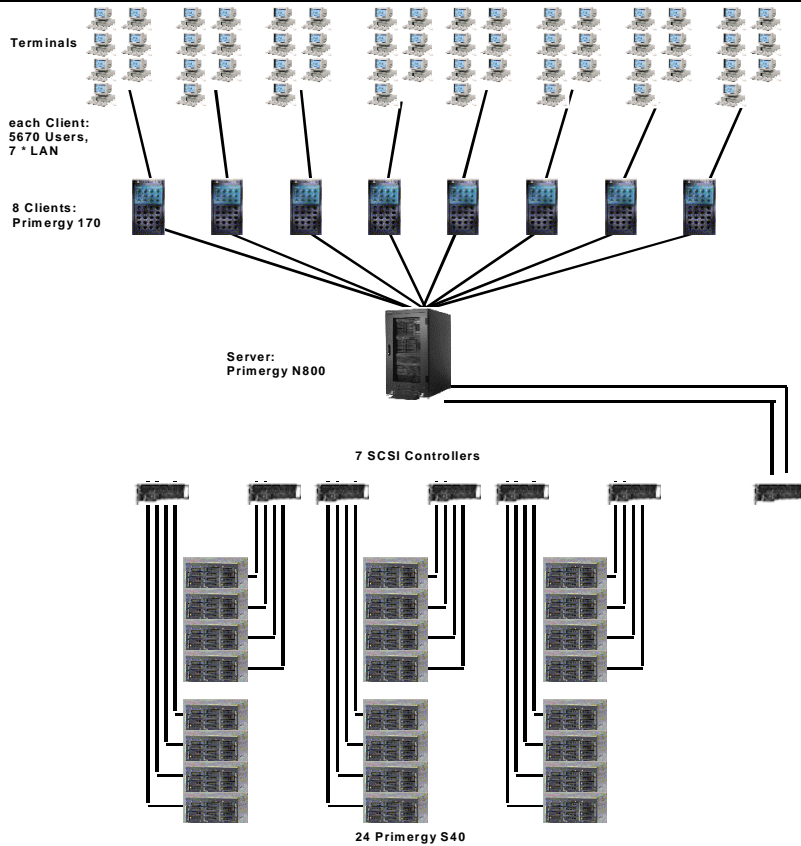
Primergy N800

C/S with 8 Primergy 170

**TPC-C REV 3.5
EXECUTIVE SUMMARY**

Report Date: July 5, 2000

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
€ 1,157,002	56,388.50 tpmC	€20.52/tpmC	October 1, 2000
Processors	Database Manager	Operating-System	Other Software
8 Intel Pentium® III Xeon 700 MHz	Microsoft SQL Server 2000 Enterprise Edition	Microsoft Windows 2000 Datacenter Server	Windows 2000 Server, IIS 5.0 and COM+
Number of Users			
45,360			



System Components	Qty/Srv.	1 Primergy N800	Qty/Client	8 Primergy 170
Processors	8	Intel Pentium® III Xeon 700 MHz with 2 MB SLC	1	Intel Pentium® III 700 MHz with 256 KB SLC
Memory	32	GB	256	MB
Disk Controller	7	SCSI Controllers	1	SCSI Controller
Disk Drives	144	9 GB	1	9 GB
	144	18 GB		
	8	36 GB		
Total GB of Storage	1	3593 GB	1	9 GB

Description	Part Number	Third Party	Unit Price	Qty.	Extended Preis	5yr Maint. Price
N800 Base 4x700MHz 2MB w/ MS Windows 2000 DataCenter	SNP:SY-K594V100-P	Brand Pricing	63.000 Euro	1	63.000 Euro	
Pentium III Xeon Processor 700MHZ/2MB	SNP:SY-F2176E702-P		7.110 Euro	4	28.440 Euro	
2. CPU Board incl. CC board 4x SRAM	SNP:SY-F2172E40-P		4.275 Euro	1	4.275 Euro	
Memory Board	SNP:SY-F2173E100-P		1.215 Euro	2	2.430 Euro	
Memory 1 GB SDRAM 100MHZ	SNP:SY-F2174E506-P		5.600 Euro	32	179.200 Euro	
Gigabit Ethernet PCI 32/64	D:RM6T5-CL18		3.452 Euro	1	3.452 Euro	
Primergy S40 BS 1 channel rack	SNP:SY-K538V511-P		2.205 Euro	1	2.205 Euro	
S40 3-channel kit	SNP:SY-F2015E3-P		414 Euro	1	414 Euro	
Einbaukit 19" DC Rack	SNP:SY-F1331E101-P		360 Euro	1	360 Euro	
Tape Drv SLR50 , 25GB	SNP:SY-F1835E3-P		1.575 Euro	1	1.575 Euro	
9GB/10K LVD-SCSI, Hot Plug	SNP:SY-F2175E109-P		540 Euro	1	540 Euro	
SCSI Cable UHD-HD LVD	SNP:SY-F1947L50-A		135 Euro	1	135 Euro	
Data Center Rack	SNP:SY-K614V101-P		1.755 Euro	1	1.755 Euro	
Power Supply Module 750W (add)	SNP:PS-F594E1-P		855 Euro	1	855 Euro	
Keyboard KBPC	S26381-K271-V320		26 Euro	1	26 Euro	
Country Pack	SNP:SY-F2195B401-P		36 Euro	1	36 Euro	
Monitor MCM 15P1	S26361-K561-V150		256 Euro	1	256 Euro	
Server Hardware Subtotal					288.954 Euro	
RAID-Ctrl, PCI 4-Ch,BBU + 10% Spares	SNP:SY-F2190-E128		3.150 Euro	9	28.350 Euro	
36GB/10K LVD, Hot Plug (incl. 10% spare)	SNP:SY-F1899E136-P		1.643 Euro	10	16.425 Euro	
APC USV 3000VA (icl. 10% spares)	SNP:PS-E421E800-P		2.003 Euro	3	6.008 Euro	
9GB/10K LVD-SCSI, Hot Plug (+10% Spare)	SNP:SY-F1899E109-P		540 Euro	159	85.860 Euro	
18GB/10K LVD-SCSI, Hot Plug (+10% spares)	SNP:SY-F1899E118-P		945 Euro	159	150.255 Euro	
Primergy S40 BS 1 channel stack (+ 10% spares)	SNP:SY-F2195B411-P		2.209 Euro	27	59.632 Euro	
S40 BS Country Pack (+10% spares)	SNP:SY-F1699B541-P		36 Euro	27	972 Euro	
SCSI Cacle UHD-HD LVD 5m (+10% spares)	SNP:SY-F1947L50-A		135 Euro	27	3.645 Euro	
Storage Subtotal					351.147 Euro	
Maint. Server + Storage						83.698 Euro
PRIMERGY 170 GE F, PIII 700, SCSI	SNP:SY-K549V145-A		1.440 Euro	8	11.520 Euro	10.800 Euro
Keyboard KBPC	S26381-K271-V320		26 Euro	8	209 Euro	
Country Pack	SNP:SY-F1699B413-A		36 Euro	8	288 Euro	
Memory 128 MB SDRAM ECC	S26361-F1840E515		360 Euro	16	5.760 Euro	
HD 9GB, U2W	SNP:SY-F2069E9-A		428 Euro	8	3.420 Euro	
Gigabit Ethernet PRO/1000 Server PCI 32/64	SNP:SY-F1911E1-P		810 Euro	4	3.240 Euro	
Fast Ethernet 2x10/100 Duralink64 PCI	SNP:SY-F2217E1-P		405 Euro	32	12.960 Euro	
Monitor MCM 15P1	S26361-K561-V150		256 Euro	8	2.048 Euro	110 Euro
Client Hardware Subtotal					37.397 Euro	
MS SQL-Server 2000 Enterprise.Edition, per Proc. Lic.	Microsoft	2	18.363 Euro	8	146.904 Euro	11.320 Euro
Server Software Subtotal					146.904 Euro	
Microsoft Windows 2000 Server, incl. 5 CALs	Microsoft	2	1.079 Euro	8	8.632 Euro	
Microsoft Visual C++ Professional 6.0	Microsoft	2	593 Euro	1	593 Euro	
Client Software Subtotal					9.225 Euro	
8xTP, 1xCoax, 10 Mbit Hub incl. 10% spare	DE-809TC		34 Euro	6.284	213.656 Euro	
8x10/100Mbit Switch incl. 10% spare	DES-3225G		869 Euro	3	2.607 Euro	
Gigabit Uplink incl. 10% spare	DES-3251G		395 Euro	3	1.185 Euro	
User Connectivity Subtotal					217.448 Euro	
Total					1.051.074 Euro	105.928 Euro

Five-Year Cost of Ownership 1.157.002 Euro
 tpmC 56388
 Euro/tpmC 20,52

1=Fujitsu Siemens Computers, 2=Microsoft, 3=D-Link

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.

Five-Year Cost of Ownership: €1,157,002
 tpmC Rating: 56,388.50
 € / tpmC: 20.52

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

Numerical Quantities Summary

MQTh, computed Maximum Qualified Throughput		56,388.50 tpmC	
% throughput difference, reported & reproducibility runs 0.18 %			
Response Times (in seconds)	90th percentile	Average	Maximum
- New-Order	0.96	0.45	5.07
- Payment	0.90	0.40	5.12
- Order-Status	0.89	0.40	3.93
- Delivery (interactive portion)	0.39	0.18	2.69
- Delivery (deferred portion)	0.38	0.24	1.43
- Stock-Level	1.25	0.71	5.08
- Menu	0.40	0.19	2.77
Transaction Mix, in percent of total transactions			
- New-Order			44.79 %
- Payment			43.04 %
- Order-Status			4.05 %
- Delivery			4.05 %
- Stock-Level			4.07 %
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	18.00/0.00	18.01/12.05	18.04/120.51
- Payment	3.00/0.00	3.01/12.03	3.04/120.50
- Order-Status	2.00/0.00	2.01/10.03	2.03/100.50
- Delivery (interactive)	2.00/0.00	2.01/ 5.07	2.03/ 50.50
- Stock-Level	2.00/0.00	2.01/ 5.01	2.03/ 50.50
Test Duration and Checkpointing			
- Ramp-up time		34 minutes	
- Measurement interval		30 minutes	
- Number of checkpoints		1	
- Checkpoint interval		30 minutes	
- Transactions during measurement interval (all types)		3,929,614	