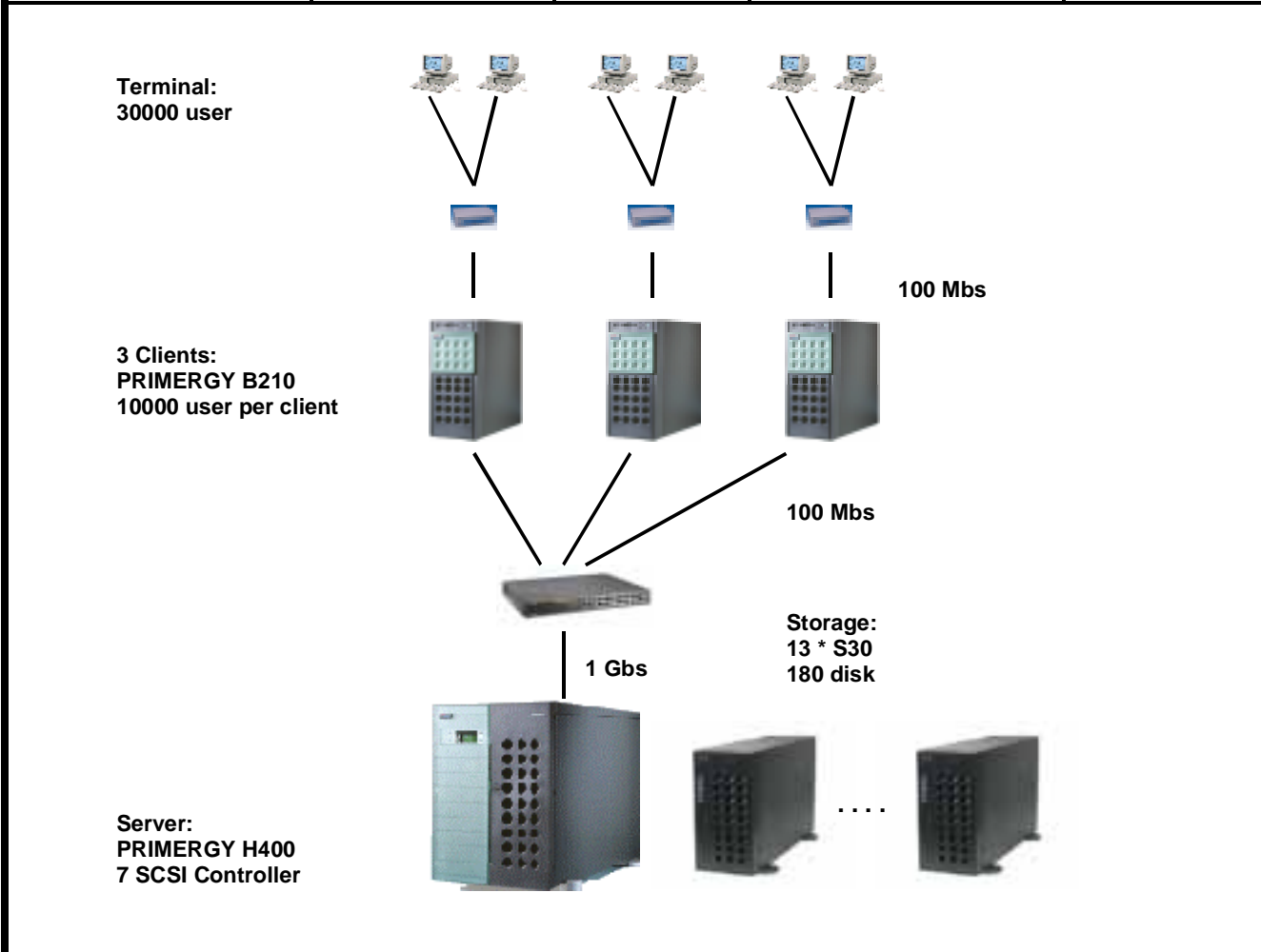


# PRIMERGY H400

## C/S with 3 PRIMERGY B210

Report Date: March 22, 2001

<b>Total System Cost</b>	<b>TPC-C Throughput</b>	<b>Price/Performance</b>	<b>Availability Date</b>
<b>€ 478,649</b>	<b>37,383.57 tpmC</b>	<b>€12.80/tpmC</b>	<b>April 1, 2001</b>
<b>Processors</b>	<b>Database Manager</b>	<b>Operating-System</b>	<b>Other Software</b>
<b>4 Intel Pentium® III Xeon 900 MHz with 2 MB SLC</b>	<b>Microsoft SQL Server 2000 Enterprise Edition</b>	<b>Microsoft Windows 2000 Advanced Server</b>	<b>Windows 2000 Server, IIS 5.0 and COM+</b>
			<b>Number of Users</b>
			<b>30,000</b>



System Components	Qty/Srv.	1 PRIMERGY H400	Qty/Client	3 PRIMERGY B210
Processors	4	Intel Pentium® III Xeon 900 MHz with 2 MB SLC	2	Intel Pentium® III 933 MHz with 256 KB SLC
Memory	8	GB	512	MB
Disk Controller	7	Mylex eXtremeRAID 2000	1	SCSI Controller
Disk Drives	1	9 GB	1	9 GB
	180	18 GB		
<b>Total GB of Storage</b>	<b>1</b>	<b>2,867 GB</b>	<b>1</b>	<b>9 GB</b>



# PRIMERGY H400

TPC-C REV 5.0  
EXECUTIVE SUMMARY

C/S with 3 PRIMERGY B210

Report Date: March 22, 2001

Description	Part Number	Third Party	Unit Price	Qty.	Extended Price	3yr Maint. Price
Brand Pricing						
PRIMERGY H400 Base (1x900MHz/2MB)	SNP:SY-K595V209-A	1	13,765 Euro	1	13,765 Euro	
Pentium III Xeon Processor 900MHz/2MB	S26361-F2276-E902	1	9,400 Euro	3	28,200 Euro	
Memory 2 GB SDRAM 100MHz (4 Mod.)	SNP:SY-F2174E545-A	1	5,760 Euro	4	23,040 Euro	
Gigabit Ethernet PCI 32/64	D:RM6T5-CL18	1	3,107 Euro	1	3,107 Euro	
Tape Drv SLR50 , 25GB	SNP:SY-F1835E2-A	1	1,480 Euro	1	1,480 Euro	
Disk 9GB, 10k, U160, Hot Plug	SNP:SY-F2294E109-A	1	420 Euro	1	420 Euro	
RAID-Ctrl, PCI, 4-Ch, BBU	SNP:SY-F2190-E128	1	2,520 Euro	7	17,640 Euro	
APC USV 3000VA	S26113-E399-L1	1	1,316 Euro	1	1,316 Euro	
CD-ROM 40x, Ultra SCSI	SNP:SY-F2086L1-A	1	120 Euro	1	120 Euro	
Power Supply Module 400W (add)	SNP:PS-F234E4-A	1	320 Euro	1	320 Euro	
Keyboard KBPC B Light Basic (D)	S26381-K271-V320	1	22 Euro	1	22 Euro	
Country Pack	SNP:SY-F2195B201-A	1	40 Euro	1	40 Euro	
Monitor 154V	S26361-K605-V150	1	186 Euro	1	186 Euro	
<b>Server Hardware Subtotal</b>					<b>89,656 Euro</b>	
18GB, 15k, U160, Hot plug, 1"	S26361-F2336-E518	1	940 Euro	180	169,200 Euro	
18GB, 15k, U160, Hot plug, 1", 10%sprave	S26361-F2336-E518	1	940 Euro	18	16,920 Euro	
PRIMERGY S30 FH 2-Kanal U160 SCSI	SNP:SY-K638V110-P	1	2,801 Euro	13	36,413 Euro	
PRIMERGY S30 Country Pack	SNP:SY-F1699B953-P	1	40 Euro	13	520 Euro	
PRIMERGY S30 10 % spare	SNP:SY-K638V110-P	1	2,801 Euro	2	5,602 Euro	
Country Pack S30 incl. spare	SNP:SY-F1699B953-P	1	40 Euro	2	80 Euro	
<b>Storage Subtotal</b>					<b>228,735 Euro</b>	
Maintenance	G3S0400SES	1	1,585 Euro			1,585 Euro
<b>Server Subtotal</b>						<b>1,585 Euro</b>
PRIMERGY B210 GE FS 933	S26361-K649-V131	1	1,662 Euro	3	4,986 Euro	
Pentium III Prozessor 933 MHz FCPGA	SNP:SY-F2369E293-A	1	700 Euro	3	2,100 Euro	
Memory 128MB SDRAM PC133 ECC	SNP:SY-F2306E512-A	1	228 Euro	12	2,736 Euro	
Disk 9GB, 10k, U160, Hot Plug, 1"	SNP:SY-F2266E109-A	1	420 Euro	3	1,260 Euro	
Fast Ether-Express-Pro/100+ Server (PCI)	SNP:SY-F2071E1-A	1	100 Euro	3	300 Euro	
Monitor 154V	S26361-K605-V150	1	186 Euro	3	558 Euro	
Keyboard KBPC B Light Basic (D)	S26381-K271-V320	1	22 Euro	3	66 Euro	
Country Pack	SNP:SY-F1699B401-A	1	40 Euro	3	120 Euro	
Maintenance	G3S0400SEL	1	765 Euro	3		2,295 Euro
<b>Client Hardware Subtotal</b>					<b>12,126 Euro</b>	<b>2,295 Euro</b>
Microsoft Windows 2000 Adv. Server, incl 5 CALs	SNP:SY-F1940E706-P	1	3,939 Euro	1	3,939 Euro	
MS SQL-Server 2000 Ent.Edit. Per Proc Lic.	MSO810-00963	1	30,116 Euro	4	120,464 Euro	
<b>Server Software Subtotal</b>					<b>124,403 Euro</b>	
Microsoft Windows 2000 Server, incl.5 CALs	SNP:SY-F1940E701-P	1	1,037 Euro	3	3,111 Euro	
Microsoft Visual C++ Professional 6.01	MSO048-00328	1	859 Euro	1	859 Euro	
<b>Client Software Subtotal</b>					<b>3,970 Euro</b>	
Microsoft Software Support (all above)	SNP:10901600012	1				10,353 Euro
24x10/0100Mbit Switch (+10% spare)	DES-3225G	Bus.	1,272 Euro	3	3,816 Euro	
Gigabit Uplink (+10% spare)	DES-3251G	Bus.	570 Euro	3	1,710 Euro	
<b>User Connectivity Subtotal</b>					<b>5,526 Euro</b>	
<b>Total</b>					<b>464,416 Euro</b>	<b>14,233 Euro</b>

Three-Year Cost of Ownership 478,649 Euro  
 tpmC Rating 37,383  
 Euro / tpmC 12.80 Euro

1=Fujitsu-Siemens, 2=Businessline

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](mailto:pricing@tpc.org). Thank you.

Five-Year Cost of Ownership: €478,649  
 tpmC Rating: 37,383.57  
 € / tpmC: 12.80

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

# Numerical Quantities Summary

<b>MQTh, computed Maximum Qualified Throughput</b>		<b>37,383.57 tpmC</b>	
<b>Response Times (in seconds)</b>	<b>90th percentile</b>	<b>Average</b>	<b>Maximum</b>
- New-Order	0.820	0.492	9.467
- Payment	0.750	0.422	9.895
- Order-Status	0.770	0.446	7.128
- Delivery (interactive portion)	0.110	0.104	1.786
- Delivery (deferred portion)	0.330	0.198	3.063
- Stock-Level	1.790	1.250	11.199
- Menu	0.110	0.105	1.807
<b>Transaction Mix, in percent of total transactions</b>			
- New-Order			44.890 %
- Payment			43.035 %
- Order-Status			4.020 %
- Delivery			4.027 %
- Stock-Level			4.028 %
<b>Emulation Delay (in seconds)</b>		<b>Response Time</b>	<b>Menu</b>
- 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
<b>Keying/Think Times (in seconds)</b>	<b>Minimum</b>	<b>Average</b>	<b>Maximum</b>
- New-Order	18.003/0.000	18.015/12.053	18.046/120.507
- Payment	3.003/0.000	3.016/12.047	3.046/120.512
- Order-Status	2.003/0.000	2.016/10.034	2.040/100.499
- Delivery (interactive)	2.003/0.000	2.016/ 5.060	2.040/ 50.504
- Stock-Level	2.003/0.000	2.016/ 5.047	2.042/ 50.500
<b>Test Duration and Checkpointing</b>			
- Ramp-up time		29 minutes	
- Measurement interval		120 minutes	
- Number of checkpoints		4	
- Checkpoint interval		30 minutes	
- Transactions during measurement interval (all types)		10,395,808	