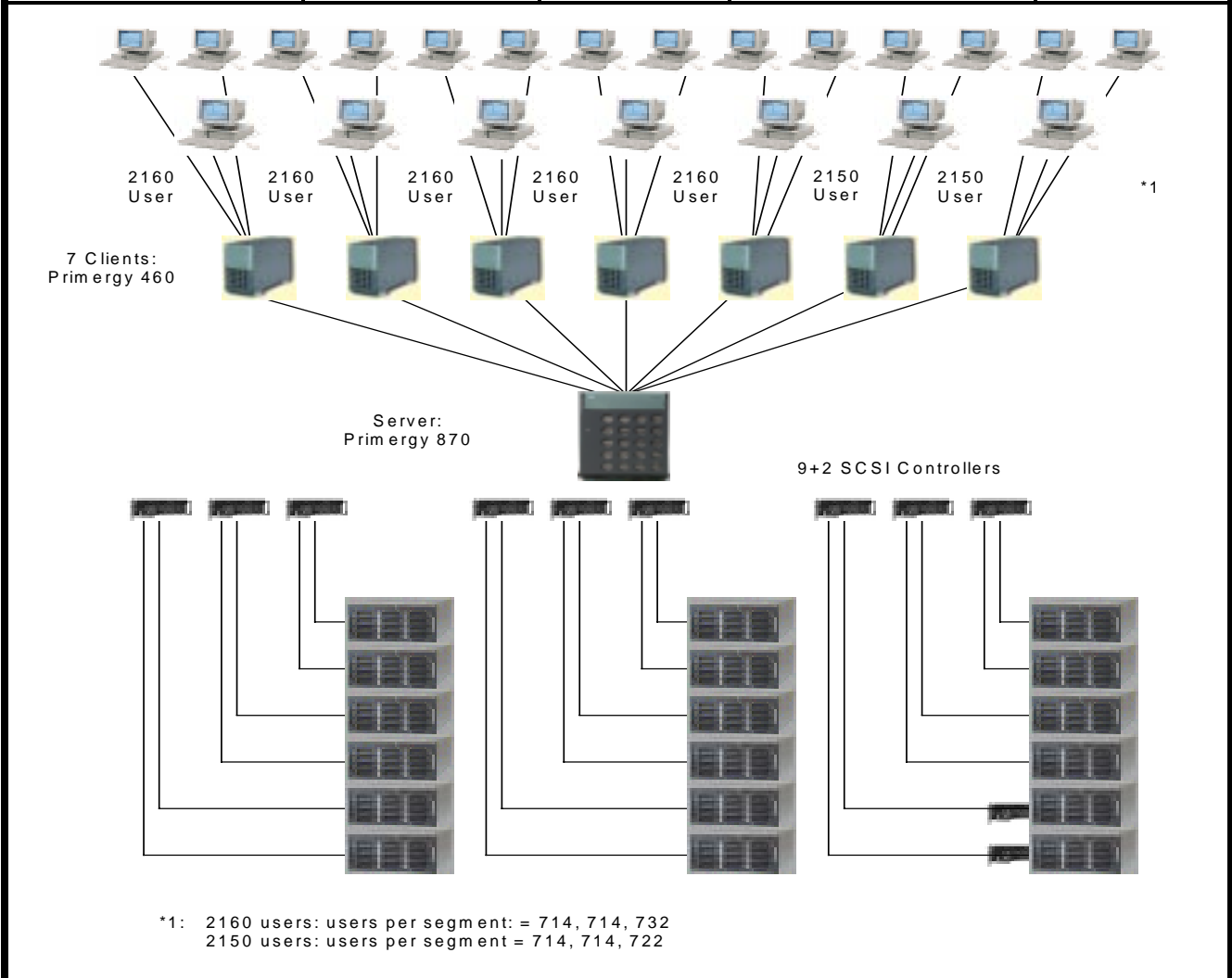


<b>SIEMENS</b>	<b>Primergy 870 with 7 Primergy 460</b>		TPC-C REV 3.4 EXECUTIVE SUMMARY Page 1 of 2
			Report Date: September 24, 1998

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
<b>\$ 683,682</b>	<b>18,528.97 tpmC</b>	<b>\$36.90/tpmC</b>	<b>December 29, 1998</b>

Processors	Database Manager	Operating-System	Other Software	Number of Users
<b>4 Intel Pentium® II Xeon 400 MHz</b>	<b>Microsoft SQL Server 7.0 Enterprise Edition</b>	<b>Microsoft Windows NT 4.0 Enterprise Edition</b>	<b>Microsoft Internet Information Server, openUTM version 4.0 Transaction Monitor</b>	<b>15,100</b>



System Components	Qty/Srv.	1 Primergy 870	Qty/Client	7 Primergy 460
Processors	4	Intel Pentium® II Xeon 400 MHz 1 MB SLC	2	Intel Pentium® II 333 MHz 512 KB SLC
Memory	4	GB	256	MB
Disk Controller	9+2	SCSI Controllers	1	SCSI Controller
Disk Drives	193	9 GB	1	2 GB
	6	18 GB		
Total GB of Storage	1	1737 GB	1	2 GB

# SIEMENS

## Primergy 870

TPC-C REV 3.4 EXECUTIVE  
SUMMARY  
Page 2 of 2

Client/Server

Report Date: September 24, 1998

Description	Part Number	Brand	Third Party Pricing	Unit Price	Qty.	Extended Price	5 yr. Maint.	Price
<b>Server Hardware</b>								
Base System	SNP:SY-K504V101-P			1	\$12 505	1 \$	12 505	
Pentium II Xeon Processor 400MHZ/1MB	SNP:SY-F1824E402-P			1	\$5 684	4 \$	22 736	
2. Memory Board	SNP:SY-F1825E1-P			1	\$627	1 \$	627	
Memory 512MB EDO-DIMM	SNP:SY-F1549E543-P			1	\$2 821	8 \$	22 568	
DAT Drive DDS-3 12GB, SE-SCSI	SNP:SY-F1730E1-P			1	\$1 158	1 \$	1 158	
FP 9GB/10K LVD-SCSI, Hot Plug	SNP:SY-F1899E109-P			1	\$1 200	1 \$	1 200	
Power Supply (add.)	SNP:PS-F234E1-P			1	\$463	1 \$	463	
Keyboard	S26381-K271-V310			1	\$25	1 \$	25	
Country Pack	SNP:SY-F1699B213-P			1	\$34	1 \$	34	
Monitor MCM 1510	S26361-K494-V150			1	\$219	1 \$	219	\$ 206
Sum Primergy 870						Subtotal \$	61 535	\$ 14 709
RAID-Controller,3 Chan.,16Mb (incl. 10% spares)	SNP:SY-F1779E16-P			1	\$1 491	11 \$	16 401	
RAID-Controller Connector Kit (incl. 10% spares)	SNP:SY-F1222E37-P			1	\$48	11 \$	528	
SCSI SE-DE Converter, 3 chan. (incl. 10% spares)	SNP:SY-F1478E30-P			1	\$1 032	6 \$	6 192	
						Subtotal \$	23 121	
FP 9GB/10K LVD-SCSI, Hot Plug	SNP:SY-F1899L109-P			1	\$1 215	192 \$	233 280	
FP 9GB/10K LVD-SCSI, Hot Plug (10% spares)	SNP:SY-F1899L109-P			1	\$1 215	20 \$	24 300	
Primergy S40 ES 1 channel DE	SNP:SY-K538V250-P			1	\$2 538	10 \$	25 380	
Primergy S40 ES 1 channel SE	SNP:SY-K538V251-P			1	\$2 524	6 \$	15 144	
Primergy 502, 2-Host, 4-Chan, 64MB	S26361-K426-V592			1	\$7 394	2 \$	14 788	
FP 18GB SCSI-3 WIDE-SCA, Hot Plg	S26361-F1322-E180			1	\$2 063	6 \$	12 378	
Country Pack Primergy 502 (INT)	S26361-F1290-B773			1	\$34	2 \$	68	
Fast Wide SCSI ext. HD-UHD 1.5m	T26139-Y2549-V1			1	\$81	6 \$	486	
SCSI Connection Cable 1m	D:KB244-M1			1	\$103	6 M \$	618	
SCSI Connection Cable AMP/MDR 5 m	D:KB215-M5			1	\$147	10 \$	1 470	
Fast Wide SCSI Cable ext., 5m	T26139-Y2549-V105			1	\$81	2 \$	162	
Sum Periphery						Subtotal \$	328 074	\$ 15 950
<b>Client Hardware</b>								
Primergy 460, FS PII 333	S26361-K482-V314			1	\$1 979	7 \$	13 853	
PII 333	S26361-F1727-E333			1	\$989	7 \$	6 923	
Keyboard	S26381-K271-V310			1	\$25	7 \$	175	
Country Pack	S26361-F1699-B113			1	\$34	7 \$	238	
Memory 256 MB EDO DIMM	S26361-F1549-E504			1	\$1 389	7 \$	9 723	
HD 2GB, SCSI-3, Hot Plug	S26361-F1724-E20			1	\$474	7 \$	3 318	
SCSI Contrl. 1 channel, SE, Cable	S26361-F1038-E31			1	\$80	7 \$	560	
CD-ROM 32x SCSI	S26361-F1837-E1			1	\$177	7 \$	1 239	
Fast-Ether-Express-Pro/100+ Server (PCI)	SNP:SY-F1868E501-A			1	\$111	28 \$	3 108	
Monitor MCM 1510	S26361-K494-V150			1	\$219	7 \$	1 533	\$ 1 444
Sum Primergy 460						Subtotal \$	40 670	\$ 10 213
<b>Server Software</b>								
Microsoft Windows NT-Server, Enterprise Edition 4.0, incl 25 CALS		Microsoft		2	\$3 999	1 \$	3 999	
MS SQL-Server 7.0 Enterp.Edition unlim. License		Microsoft		2	\$28 999	1 \$	28 999	
Microsoft Software Maintenance		Microsoft		2				\$ 10 475.00
						Subtotal \$	32 998	
<b>Client Software</b>								
Microsoft Windows NT-Server 4.0, incl. 5 CALS		Microsoft		2	\$809	7 \$	5 663	
Open UTM	U11421-C10			1	\$973	7 \$	6 811	\$ 10 290.00
Microsoft Visual C++ Professional 5.0		Microsoft		2	\$499	1 \$	499	
						Subtotal \$	12 973	
<b>User Connectivity</b>								
ATI 24 PORT HUB incl. 10% spare	AT-3024SL	Allied Telesyr		3	\$160	724 \$	115 840	
Fast Ethernet Switch 24*100 incl. 10% spare	AT-8124XL	Allied Telesyr		3	\$1 728	3 \$	5 184	
						Subtotal \$	121 024	
						Total \$	620 395	\$ 63 287.00
1 - Siemens, 2-Microsoft, 3-Allied Telesyn International GmbH						Five-Year Cost of Ownership	\$	683 682.00
						tpmC Rating	\$	18 528.97
						\$/tpmC:	\$	36.90

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: \$683,682  
tpmC Rating: 18,528.97  
\$/tpmC: 36.90

Note: The benchmark results and test methodology were audited by Francois Raab of Information Paradigm, Inc.

# Numerical Quantities Summary

<b>MQTh, computed Maximum Qualified Throughput</b>		<b>18,528.97 tpmC</b>	
% throughput difference, reported & reproducibility runs		0.08 %	
<b>Response Times (in seconds)</b>	<b>90th percentile</b>	<b>Average</b>	<b>Maximum</b>
- New-Order	0.85	0.58	31.25
- Payment	0.63	0.38	30.94
- Order-Status	0.67	0.42	6.82
- Delivery (interactive portion)	0.21	0.17	30.43
- Delivery (deferred portion)	0.69	0.48	1.34
- Stock-Level	3.03	2.30	9.45
- Menu	0.21	0.17	30.93
<b>Transaction Mix, in percent of total transactions</b>			
- New-Order			44.74 %
- Payment			43.05 %
- Order-Status			4.07 %
- Delivery			4.06 %
- Stock-Level			4.08 %
<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	18.00/0.00	18.01/12.12	19.54/122.05
- Payment	3.00/0.00	3.01/12.11	4.26/122.04
- Order-Status	2.01/0.00	2.01/10.14	3.06/101.88
- Delivery (interactive)	2.01/0.00	2.01/ 5.19	2.93/ 52.01
- Stock-Level	2.01/0.00	2.01/ 5.19	2.90/ 52.01
<b>Test Duration and Checkpointing</b>			
- Ramp-up time		31 minutes	
- Measurement interval		29 minutes	
- Number of checkpoints		1	
- Checkpoint interval		29 minutes	
- Transactions during measurement interval (all types)		1,200,897	