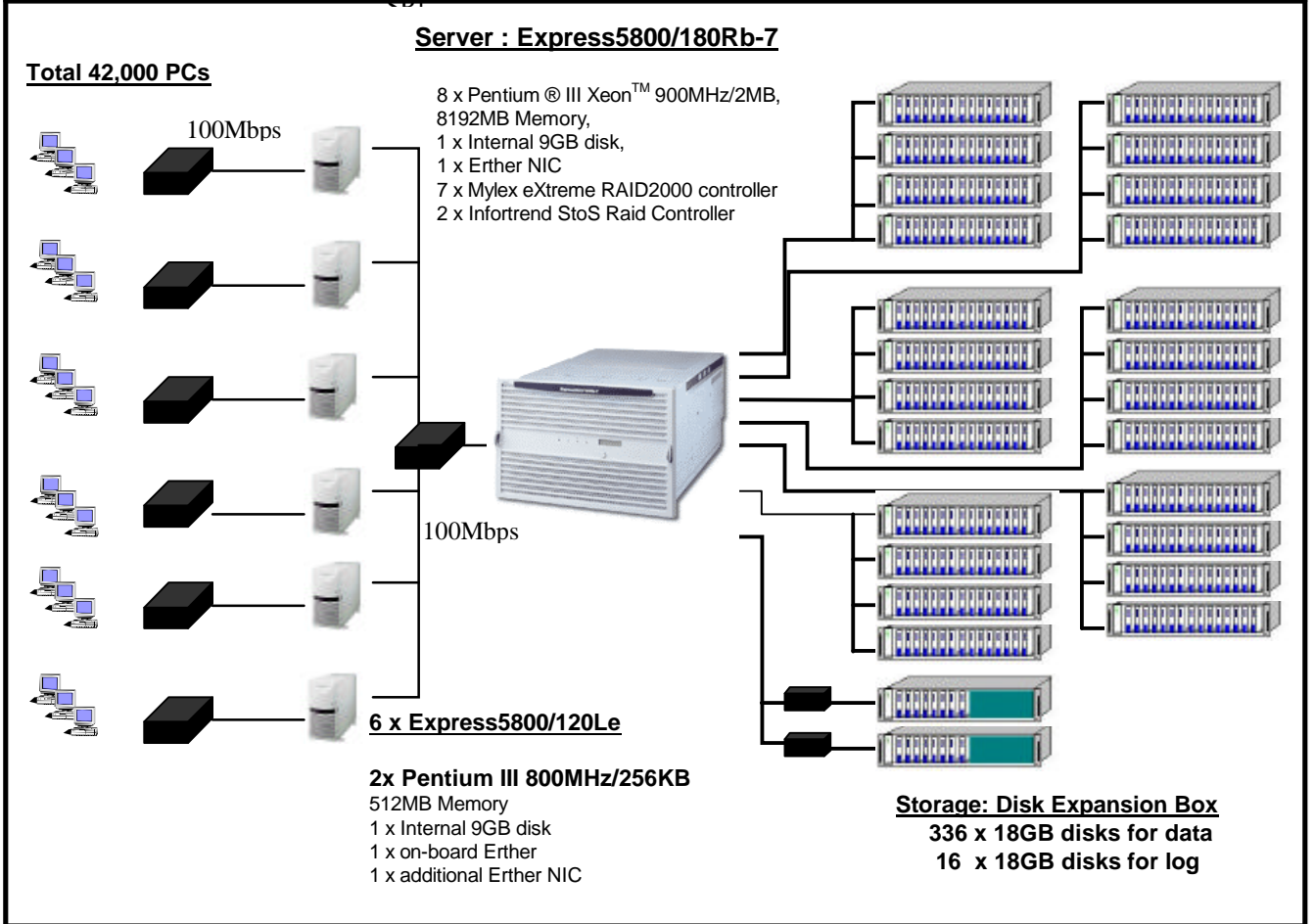


NEC		Express5800/180Rb-7 C/S		TPC-C Rev.5.0 Reported Date May 22, 2001
Total System Cost		TPC-C Throughput		Price/Performance
\$ 682,724		52,671.30 tpmC		\$12.96per tpmC
Processors		Database Manager		Operating System
8 x Pentium®III Xeon™ 900MHz 2MB L2 cache		Microsoft SQL Server 2000 Enterprise Edition		Microsoft Windows 2000 Advanced Server
		Other Software		Number of Users
		Windows2000 Server w/ COM+, IIS5.0 Microsoft VC++		42,000



System Component	Server		Each Client	
Processors	8	Pentium® III Xeon™ 900MHz	2	Pentium® III 800MHz
Cache		2MB L2 Cache		256KB L2 Cache
Memory	1	8192MB	1	512MB
Disk Controllers	7	Mylex eXtreme RAID 2000	1	On-board SCSI
	2	On-board SCSI		
	2	Infortrend S2S controller		
Disk Drives	1	9GB (8.47GB usable)	1	9GB
	352	18GB (17.07 GB usable)		
Total Storage		5975 GB		9GB
Others	1	CD-ROM Drive	1	Ether NIC
			1	CD-ROM Drive
			1	On-board Ether controller



**NEC Express5800/180Rb-7
C/S**

TPC-C REV 5.0

Report Date:

May 22,2001

Description	Part Number	Third Party		Unit Price	Qty	Extended Price	3-yr Mnt. Price
		Brand	Pricing				
Server Hardware							
Express5800/180Rb-7 system							
Base system with 1 x Pentium III Xeon 900MHz/2MB	NS15000255	NEC	1	24,599	1	24,599	5,904
Pentium III Xeon 900MHz/2MB BTO Option	UBP-2845-1C-IN	NEC	1	5,569	7	38,983	9,356
2GB (4 x 512MB) memory,	AMS-7020-IN-00	NEC	1	4,999	4	19,996	4,799
9GB 10K rpm HDD,	BDH-1961-IN-00	NEC	1	339	1	339	81
Intel PRO100+ 10/100 LAN BTO Option	ALN-0519-IN-00	NEC	1	79	1	79	19
CD-ROM, KB/MS	Included	NEC	1	0	1	0	0
NEC NCM1550 (15" monitor)	011170	NEC	1	194	1	194	47
12/24GB SCSI DDS-3 DAT Drive (External)	ADT-2410-00-00	NEC	1	749	1	749	180
SCSI Cable 3M VHD-HD	ACN-0218-IN-00	NEC	1	100	1	100	0
Subtotal						85,039	20,385
Disk Subsystem							
Extreme RAID2000 4channel controller (+2 spares)	E2000-4-32NB	Mylex	3	1,950	9	17,550	0
3U Disk Expansion Unit(14 slots) (+10% spares)	NDE-1430-00-00	NEC	1	2,299	29	66,671	0
18GB 15k rpm HDD (+10% spares)	BDH-2860-IN-00	NEC	1	775	388	300,700	0
42U Rackframe	050-01790-000	NEC	1	1,799	2	3,598	0
Infotrend S2S RAID Controller (+2 spares)	IFT-SR1500	Infotrend	4	1,550	4	6,200	0
128MB SDRAM DIMM (+2 spares)	IFT-128/DIMM	Infotrend	4	150	4	600	0
Battery Daughter Card (+2 spares)	IFT-9070C	Infotrend	4	150	4	600	0
Battery cell pack (+2 spares)	IFT-9010C	Infotrend	4	80	4	320	0
SCSI Cable 3M VHD-HD	ACN-0218-IN-00	NEC	1	100	2	200	0
APC Smart UPS	050-01800-000	NEC	1	1,599	2	3,198	768
Subtotal						399,637	768
Server Software							
SQL Server2000 Ent. Edition SP1,Processor License	810-00846	Microsoft	2	16,541	8	132,328	6,285
Windows2000 Advanced Server, Server License	C10-00475	Microsoft	2	2,399	1	2,399	0
Subtotal						134,727	6,285
Client Hardware							
NEC Express5800/120Le							
Base System with 1 x Pentium III 800MHz/256KB	NS100001555	NEC	1	2,251	6	13,506	3,241
1 x Pentium III 800MHz/256 BTO Option	UBP-2763-1C-IN	NEC	1	739	6	4,434	1,064
1 x 128MB memory,	AMS-5128-IN-00	NEC	1	155	18	2,790	670
1 x 9GB 10K rpm HDD,	BDH-1968-IN-00	NEC	1	339	6	2,034	488
Intel PRO100+ 10/100 LAN BTO Option	ALN-0519-IN-00	NEC	1	79	6	474	114
CD-ROM, On-board LAN, KB/MS	Included	NEC	1	0	6	0	0
NEC NCM1550 (15" monitor)	011170	NEC	1	194	6	1,164	279
Subtotal						24,402	5,856
Client Software							
Windows2000 Server, Server License	C11-00821	Microsoft	2	738	6	4,428	0
Visual C++ Professional 6.0 Win32	048-00317	Microsoft	2	549	1	549	0
Subtotal						4,977	0
User Connectivity							
Allied Telesyn 16-prt 100Mbps Switch (+2spare)	AT-FS716	Allied Telesyn	5	216	3	648	0
Subtotal						648	0
TOTAL						649,430	33,294
Notes:							
All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server Pricing: 1-NEC 2-Microsoft 3-Mylex 4-GEMINI 5-theLinuxFactor 3,4,5 : with 3-year warranty						3-Yr. Cost of Ownership: \$682,724 tpmC Rating: 52671.30	
Audited by Francois Raab, InfoSizing, Inc						\$/tpmC: 12.96	
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 reflects standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark 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.							

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput		52671.30 tpmC	
<u>Response Times(in seconds)</u>	<u>90%</u>	<u>Average</u>	<u>Maximum</u>
New-Order	0.58	0.36	19.21
Payment	0.49	0.27	19.57
Stock-Level	1.82	1.01	14.23
Delivery(interactive portion)	0.11	0.10	2.00
Delivery(deferred portion)	0.77	0.44	6.34
Order-status	0.52	0.30	16.80
Menu	0.11	0.10	2.02
Response time delay added for emulated components			0.1
<u>Transaction Mix , in percent of total transaction</u>			
New-Order			44.89%
Payment			43.04%
Order-status			4.03%
Delivery			4.03%
Stock-level			4.02%
<u>Keying/Think Times (in seconds)</u>	<u>Min.</u>	<u>Average</u>	<u>Max</u>
New-Order	18.00 0.00	18.02 12.06	18.04 120.50
Payment	3.00 0.00	3.02 12.05	3.04 120.50
Stock-Level	2.00 0.00	2.02 5.06	2.03 50.50
Delivery	2.00 0.00	2.02 5.06	2.04 50.50
Order-status	2.00 0.00	2.02 10.05	2.03 100.50
<u>Test Duration</u>			
Ramp-up time			44 minutes
Measurement interval			120 minutes
Number of checkpoints			4
Checkpoint interval			30 minutes
Number of transactions (all types) completed in measurement interval			14,646,092