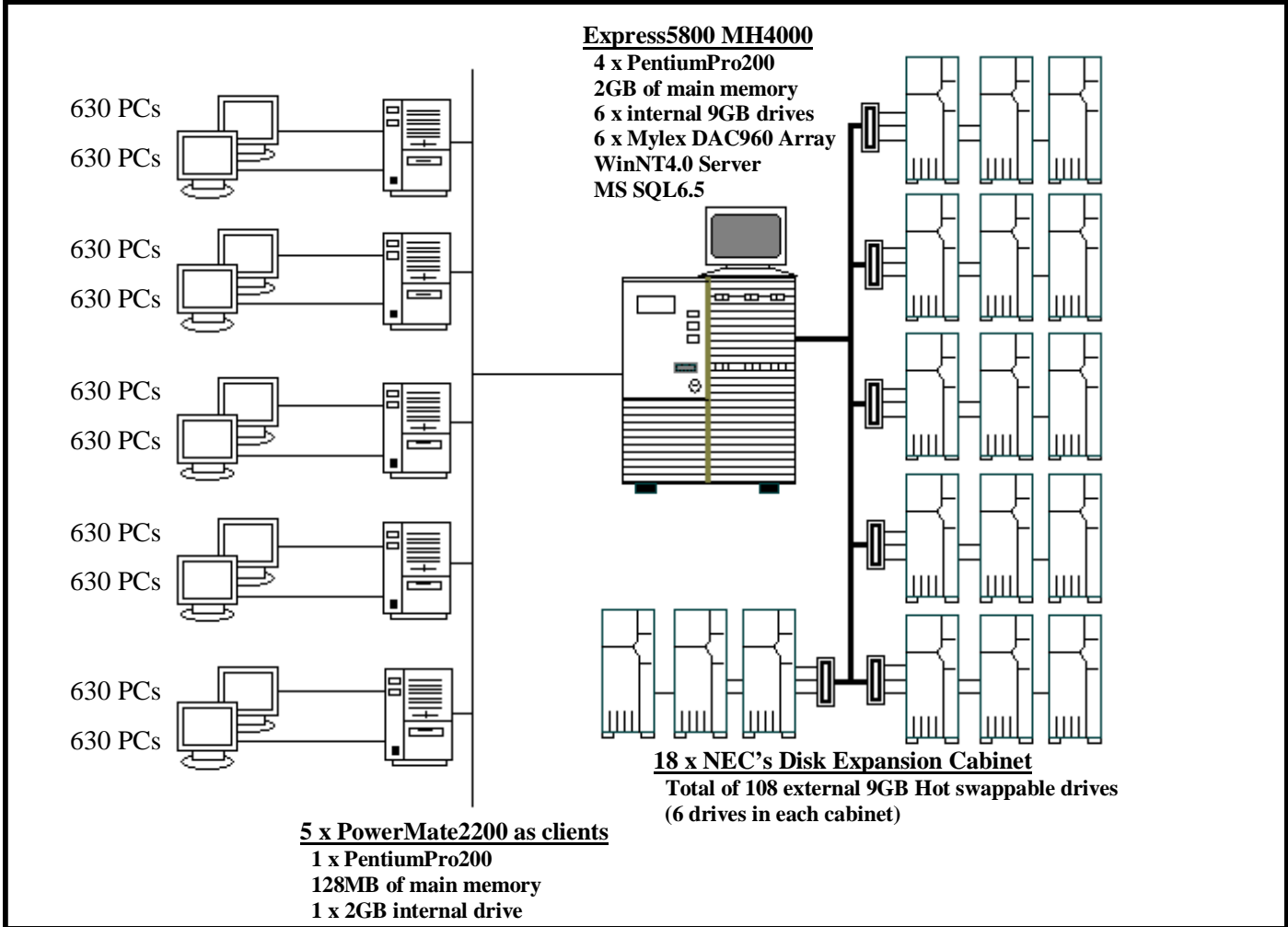


NEC	Express5800 MH4000 C/S	TPC-C REV 3.3 Report Date: 14 August 1997
------------	----------------------------------	--

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$ 526,240	7625.63 tpmC	\$ 69.00 per tpmC	August 1997

Processors	Database Manager	Operating System	Other Software	Number of Users
4 x PentiumPro 200MHz 512KB cache	Microsoft SQL Server6.5 (SP3)	Microsoft Windows NT 4.0 Server	Microsoft Internet Information Server Microsoft Visual C++	6,300



System Components	Server		Clients	
Processors	4	200MHz Intel Pentium Pro	5	200MHz Intel Pentium Pro
Cache		512 KB		256KB
Memory	1	2048MB	5	128MB
Disk Controllers	7	6)Mylex DAC960-PDU 1) Integrated Adaptec Ultra Wide SCSI	5	Integrated IDE
Disk Drives	114	9GB drive (8.47GB usable)	5	2GB drive
Total Storage		965.58GB		10GB
Other	1	EISA 100 base Ethernet adapter	15	PCI 100/10base Ethernet adapter
	1	CD-ROM drive	5	CD-ROM drive
	1	Tape Drive		



**NEC Express 5800 MH4000
C/S**

TPC-C REV 3.3

Report Date: 14 August 1997

Description	Part Number	Third Party		Unit Price	Quantity	Extended Price	5-year Maint. Price
		Brand	Pricing				
Server Hardware							
Express 5800 MH4000 1 x PentiumPro/200Mhz/512Kb CPU 1024MB integrated 10/100 NIC CD-ROM, Keyboard, Mouse integrated Ultra-Wide SCSI controller	MH-3430-200GB		1	25,899	1	25,899	6,216
Pentium Pro 200/512 CPU Upgrade Kit	FI-430-34102		1	1,499	3	4,497	0
1024MB ECC (4X256MB DIMM)	FI-410-34305		1	17,599	1	17,599	0
3com FAST Ether Link NIC (+ 2 spares)	3C597-TX	3com	5	233	3	699	0
NEC 15" Multisync Monitor	JC15W1VMA		1	313	1	313	75
4/8GB SCSI Connor 4mm DAT Drive	FI-230-34001		1	749	1	749	0
Disk Subsystem							
Mylex DAC960-PDU 3 channel (+ 2 spares)	DACPU-3-8E-MY4	Mylex	3	2,020	8	16,160	3,878
Disk Expansion cabinet	OP-560-71101		1	5,263	18	94,734	0
9GB Hard Disk Drives	OP-220-76103		1	1,894	114	215,916	0
Internal SCSI cable	K210-16(00)		1	70	6	420	0
External SCSI cable	K208-38(01)		1	47	18	846	0
					Subtotal	377,832	10,169
Server Software							
Microsoft Windows NT Server V. 4.0 w/5 cal		Microsoft	2	809	1	809	0
Microsoft SQL Server6.5 unlimited user license		Microsoft	2	24,999	1	24,999	10,475
					Subtotal	25,808	10,475
Client Hardware							
PowerMate Pro 2200 PentiumPro200Mhz, 16MB, 2GB HDD, CD-ROM, KB, Mouse	MT-1790-24853C		1	1,894	5	9,470	2,273
32MB EDO memory	OP-410-18005		1	328	20	6,560	0
EtherExpress Pro/100B NIC(20 pack)	PILA8465B	Intel	4	1,135	1	1,135	0
NEC 15" Multisync Monitor	JC15W1VMA		1	313	5	1,565	376
					Subtotal	18,730	2,648
Client Software							
Microsoft Windows NT Server V. 4.0 w/5 cal		Microsoft	2	809	5	4,045	0
Microsoft Visual C++ Professional Edition		Microsoft	2	499	1	499	0
Microsoft SQL Workstation(includes program's toolkit)		Microsoft	2	499	1	499	0
					Subtotal	5,043	0
User Connectivity							
NetLux 8-Port 100BaseT Hub (+ 2 spares)	NX-H8TX	NetLux	6	329	3	987	0
NetLux 24-Port 10Base-T Hub (+ 10% spares)	NX-H24	NetLux	6	251	297	74,547	0
					Subtotal	75,534	0
					TOTAL	502,947	23,293

Notes:

All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server
Pricing: 1-NEC 2-Microsoft 3-Mylex 4-Intel 5-3com 6-NetLux
4,5 offer a lifetime warranty free of charge: 6 offers standard with 5-year warranty
Audited by Francois Raab of Information Paradigm, Inc

Five-Year Cost of Ownership: \$526,240
tpmC Rating: 7625.63
\$ / tpmC: 69.00

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				7625.63tpmC
%throughput difference ,reported & reproducibility runs				0.37 %
<u>Response Times(in seconds)</u>	<u>90%</u>	<u>Average</u>	<u>Maximum</u>	
New-Order	2.02	0.97	7.95	
Payment	1.80	0.75	4.59	
Order-status	2.47	1.62	8.05	
Delivery(interactive portion)	0.28	0.28	0.67	
Delivery(deferred portion)	9.55	3.02	48.45	
Stock-Level	4.88	3.21	9.68	
Menu	0.31	0.20	0.79	
Response time delay added for emulated components				0.1
<u>Transaction Mix , in percent of total transaction</u>				
New-Order				44.79 %
Payment				43.07 %
Order-status				4.01 %
Delivery				4.01 %
Stock-level				4.11 %
<u>Keying/Think Times (in seconds)</u>	<u>Min.</u>	<u>Average</u>	<u>Max</u>	
New-Order	18.02 0.0	18.03 12.05	18.07 120.71	
Payment	3.02 0.0	3.03 12.07	3.07 120.70	
Order-Status	2.02 0.0	2.03 10.08	2.04 84.47	
Delivery	2.02 0.0	2.03 5.01	2.05 50.70	
Stock-Level	2.02 0.0	2.03 5.07	2.06 40.44	
<u>Test Duration</u>				
Ramp-up time				29 minutes
Measurement interval				30 minutes
Number of checkpoints				1
Checkpoint interval				29.5 minutes
Number of transactions (all types) completed in measurement interval				510,720