		IBM Netfinity 7000 M10				C/S	TPC-C Rev 3.4			
	CID					Report Date: 25 Mar. 1999				
Total System Cost		TPC-C Throughput			Price/Perform		nance Availabilit		ility Date	
\$595,772		23,640 tpmC			\$25.	20/tp	mC	June 30, 1999		
Processors	Datab	Database Manager		Operating System		Other Soft		ware	Number of Users	
4 Pentium® III Xeon 500MHz 2MB L2 Cache	Microsoft® SQL Server 7.0 Enterprise Edition		Microsoft Windows® NT 4.0 Enterprise Edition		TXSeries for Windows NT			19,100		
	(	Clients Server				Storage Subsystem				
19100 PCs	00 PCs 4 x IBM Netfinity 5000 2 x 500MHz Pentium III			4 w	IBM Netfinity 7000 M10 25 x IBM Netfinity EXP15 4 x 500MHz Pentium III Xeon with 2MB L2 Cache Enclosures 4GB Memory					
950 950 960 960 950 950 950 960 960 960 960 960 960 960 960 960 96	950 960 950 950 950 960 960 960 960 960 960 960 96									
10BaseT 100BaseT Ethernet Ethernet										
System Componer Processors  Cache Memory Disk Controllers Disk Drives Total Storage Tape Drive Terminals User Connectivit		Qty 4  1  9 250  1 1 1	Xeon 2MB I 4096M ServeF 9.1GB 2275G 10/20G 14-incl	Hz Pentiur .2 Cache IB RAID-3H U (10000 rp B	Ultra2 m) ape Drive	Qty 2 1 1 1 1 2627	500MHz 512KB 1 384MB Wide Ul 4.51GB	Hard Dis	n III e I Onboard	

## Netfinity 7000 M10 C/S $\mid$ TPC-C Revision 3.4 **IBM Corporation** Report Date: 25 March 1999 Description **Order Number** Third-Party Unit Ext. Price 5-Yr. **Pricing Price Brand** Server Hardware IBM Netfinity 7000 M10 / 500MHz Pentium III Xeon 86808RY 1 \$16,250 1 with 2MB L2 Cache\* 500MHz / 2MB L2 Cache Processor Upgrade 28L4735 1 7,840 3 Memory Card 01K8004 1 523 1 Netfinity 512MB Memory Expansion Kit 01K8045 1 1,922 8 Netfinity ServeRAID-3H Ultra2 SCSI Adapter 01K7207 1 1,770 9 32MB Battery Backup Cache 28L1003 1 298 1 Netfinity 4.2M Ultra2 SCSI Cable 1 104 25 03K9311 IBM Third SCSI Internal Channel Cable 76H5400 1 27 8 Ethernet 10/100 PCI Adapter 34L0201 1 85 1 IBM G42 14" (13.2" Viewable) Color Monitor\* 654000N 1 202 1 10/20GB NS Internal SCSI Tape Drive 471 01K1319 1 1 Netfinity Rack\* 1,680 2 9306900 1

94G6669

35202RU

Side Panel Kit

Server Storage

TXSeries Registered User

COMPEX MicroHub/8-Port 10Mbps Hub\*\*\*

NETLUX 8-Port 100Mbps Hub\*\*\*

**User Connectivity** 

Netfinity EXP15 Rack Storage (incl. 10% Spares)

Maint.\*

\$7,995

0

0

0

0

0

0

0

0

0

0

0

0

215

\$16,250

23,520

15,376

15,930

523

298

216

85

202

471

194

3,360

71,960

1

28

194

2,570

1

1

2,600

APC Smart-UPS 1400RMB	94G6674		1	1,112	1	1,112	0
Netfinity EXP10 9.1GB 10K Wide Ultra SCSI Drive							
(incl. 10% Spares)	01K8499		1	876	275	240,900	0
				Sı	ıbtotal_	\$392,997	\$8,210
Server Software							
Microsoft SQL Server 7.0, Enterprise Edition, unlimited user license		Microsoft	2	28,999	1	\$28,999	\$0
Microsoft Windows NT Server 4.0, Enterprise Edition, including 25 CALs		Microsoft	2	3,999	1	3,999	0
Five-Year Maintenance for Software		Microsoft	2	10,475	1		10,475
				Sı	ıbtotal	\$32,998	\$10,475
Client Hardware					_		
IBM Netfinity 5000 / 500MHz Pentium III*	865941Y		1	3,355	4	\$13,420	\$22,780
500MHz Upgrade with Pentium III	36L9673		1	1,620	4	6,480	0
4.51GB Wide Ultra SCSI Drive	01K8009		1	554	4	2,216	0
128MB DIMMs	01K7262		1	410	12	4,920	0
Ethernet 100/10 PCI Adapter	34L0201		1	85	4	340	0
Adaptec Quartet 4-Port Ethernet PCI Adapter**	ANA-6944A		1	476	4	1,904	0
IBM G42 14" (13.2" Viewable) Color Monitor*	654000N		1	202	4	808	860
				Sı	ıbtotal_	\$30,088	\$23,640
Client Software							
Microsoft Windows NT Server 4.0, incl. 5 CALs		Microsoft	2	809	4	3,236	0
Microsoft Visual C++ Professional 5.0		Microsoft	2	499	1	499	0
TXSeries V4.2 for Windows NT Server		IBM	3	2,877	4	11,508	5,872

Notes: \* The standard 3-year warranty and the extended warranty on IBM hardware is for 7x24, **Five-Year Cost of Ownership:** on-site same day coverage. \*\* Five-year warranty. \*\*\* 10% or minimum 2 spares are added in tpmC Rating: place of on-site service (products have a 5-year return-to-vendor-warranty) \$ / tpmC: Pricing: 1 - Software House International; 2 - Microsoft Corp.; 3 - IBM Corp.; 4 - NETLUX Audited by Francois Raab of Information Paradigm, Inc.

DEH2924

NX-H8TX

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. Al 1 discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark specification. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

**IBM** 

**COMPEX** 

**NETLUX** 

3

1

4

72

205

28.75 2.627

1

Subtotal

Subtotal

72

\$15,315

75.526

\$76,141

**Total** \$547,539

615

36

0

0

\$0

\$48,233

\$595,772

23,640

25.20

\$5,908

## **Numerical Quantities Summary**

MQTh, computed Maximu	23,640 tpmC				
% throughput difference,	reported and reproducibilit	y runs:	.0417 %		
Response Times (in seconds)	90th Percentile	Average	Maximum		
New-Order	1.0	0.500	4.203		
Payment	0.9	0.396	4.172		
Order-Status	1.0	0.469	4.219		
Delivery (Interactive)	0.4	0.297	0.657		
Delivery (Deferred)	0.542	0.381	1.500		
Stock Level	2.7	2.005	5.985		
Menu	NA	0.213	0.969		
•	d for menu delay is 0.1 secon				
Transaction Mix, in perce	nt of total transactions	Total Occurrences	Percent		
New-Order		472,800	44.901		
Payment		453,166	43.036		
Order-Status		42,135	4.001		
Delivery		42,694	4.055		
Stock-Level		42,197	4.007		
Keying/Think Times (in seconds)	Minimum	Average	Maximum		
New-Order	18.00 / 0.015	18.002 / 12.063	18.187 / 120.86		
Payment	3.00 / 0.015	3.00 / 12.072	3.141 / 120.813		
Order Status	2.00 / 0.015	2.00 / 10.021	2.063 / 101.203		
Delivery	2.00 / 0.015	2.00 / 5.099	2.078 / 50.375		
Stock-Level	2.00 / 0.015	2.00 / 5.1	2.093 / 50.813		
Test Duration					
Ramp-up time	19 minutes, 1 seconds				
Measurement interval	20 minutes				
Number of checkpoints in m	neasurement interval		1		
Checkpoint interval	20 minutes				
Number of transactions (all	types) completed in measure	ement interval	1,052,992		