IBM		IBM Netfinity 7000 M10 C/S				TPC-C Rev 3.4			
							Report Date:14 Sept. 199		Sept. 1998
Total System Cost		TPC-C Throughput			Price/Performance		nance	ce Availability Date	
\$549,551	18,	893.43	tpmC	\$29.	09/tp	mC	Dec. 29, 1998		
Processors	Datab	Database Manager			g System	C	ther Software		Number of Users
4 Pentium [®] II Xeon 400MHz 1MB L2 Cache	SQI	Microsoft® SQL Server 7.0 Enterprise Edition		Microsoft Windows® NT 4.0 Enterprise Edition		TUXEDO® 6.3 CFS		6.3 CFS	15,330
		Clients			Server		Storage	Subsyster	n
15,330 PCs 3 x IBM Netfinity 3500 2 x 333MHz Pentium II			4 x wit	IBM Netfinity 7000 M10 4 x 400MHz Pentium II Xeon with 1MB L2 Cache 4GB Memory 19 x IBM Netfinity EXP15 Rack Storage Expansion Enclosures					
850 850 850 850 850 850 850 850							rpm)		
System Component Processors Cache Memory Disk Controllers Disk Drives Total Storage Tape Drive Terminals User Connectivity		Qty 4 1 8 184 1 1 1	Server 400MHz Pentium 1MB L2 Cache 4096MB ServeRAID-3H 19 9.1GB (10000rpm 1674.4GB 10/20GB SCSI T 14-inch Display NETLUX 8-Port 100Mbps Hub		Ultra2 n) ape Drive	Qty 2 1 1 1 1 1 2124	333MHz 512KB 1 384MB Wide UI 4.51GB	Hard Dis Display EX 8-Por	n II e I Onboard

IBM Corporation	Netfinity 7000 M10 C/S			TPC-C Revision 3.4			
_	Ç			Report Date:		14 Sept. 1998	
Description	Order Number	Third Brand	-Party Pricing	Unit Price	Qty	Ext. Price	5-Yr. Maint.*
Server Hardware							
IBM Netfinity 7000 M10 / 400MHz Pentium II Xeon with 1MB L2 Cache*	8680-2RU		1	\$18,804	1	\$18,804	\$6,415
400MHz / 1MB L2 Cache Processor Upgrade	01K8007		1	7,295	3	21,885	0
Memory Card	01K8004		1	656	1	656	0
Netfinity 512MB Memory Expansion Kit	01K8045		1	3,278	8	26,224	0
Netfinity ServeRAID-3H Ultra2 SCSI Adapter	01K7207		1	2,069	8	16,552	0
32MB Battery Backup Cache	28L1003		1	325	1	325	0
Netfinity 4.2M Ultra2 SCSI Cable	03K9311		1	109	22	2,398	0
IBM Third SCSI Internal Channel Cable	76H5400		2	29	7	203	0
IBM EtherJet 100/10 PCI Adapter	86H2432		2	81	1	81	0
IBM G42 14" (13.2" Viewable) Color Monitor*	654000N		2	211	1	211	215
10/20GB NS Internal SCSI Tape Drive	01K1319		2	652	1	652	0
Netfinity Rack*	9306900		2	1,790	2	3,580	2,106
Side Panel Kit	94G6669		2	207	2	414	0
Server Storage							
Netfinity EXP15 Rack Storage Exp. Enclosure	35202RU		1	2,804	19	53,276	0
Netfinity EXP15 Rack Storage Enc. (10% Spares)	35202RU		1	2,804	2	5,608	0
APC Smart-UPS 1400RMB	94G6674		2	1,183	1	1,183	0
Netfinity EXP10 9.1GB 10K Wide Ultra SCSI Drive	01K8499		2	1,108	184	203,872	0
Netfinity EXP10 9.1GB 10K Wide Ultra SCSI Drive (10% Spares)	01K8499		2	1,108	19	21,052	0
				S	ubtotal	\$376,976	\$8,736
Server Software Microsoft SQL Server Enterprise Edition 7.0,		Microsoft	3	28,999	1	\$28,999	\$0
unlimited user license Microsoft Windows NT Server Enterprise Edition		Microsoft	3	3,999	1	3,999	0
4.0, including 25 CALs Microsoft Software Maintenance		Microsoft	3	10,475	1		10,475
				•	ubtotal	\$32,998	\$10,475
Client Hardware							
IBM Netfinity 3500 / 333MHz Pentium II*	8644-30U		2	2,147	3	\$6,441	7,605
IBM Netfinity 333MHz Upgrade with Pentium II	10K8025		2	1,142	3	3,426	0
4.51GB Wide Ultra SCSI Drive	01K1327		2	380	3	1,140	0
128MB DIMMs	04K0075		2	325	9	2,925	0
IBM EtherJet 100/10 PCI Adapter	86H2432		2	81	6	486	0
Adaptec Quartet 4-Port Ethernet PCI Adapter**	ANA-6944ATX		2	523	3	1,569	0
IBM G42 14" (13.2" Viewable) Color Monitor*	654000N		2	211	3	633	675
Client Software				S	ubtotal	\$16,620	\$8,280
Microsoft Windows NT Server 4.0, incl. 5 CALs		Microsoft	3	809	3	2,427	0
Microsoft Visual C++ 32-bit edition (subscription)		Microsoft	3	499	1	499	0
TUXEDO 6.3 Core Functionality Services for NT		BEA	4	3,000	3	9,000	6,750
				•	ubtotal		\$6,750
User Connectivity					•		
COMPEX MicroHub/8-Port 10Mbps Hub*** NETLUX 8-Port 100Mbps Hub***	DEH2924 NX-H8TX	COMPEX NETLUX	5 6	35.85 215	2,124 3	76,145 645	0 0
				s	ubtotal	\$76,790	\$0
					Total	\$515,310	\$34,241
Notes: * The standard 3-year warranty and the extended warran on-site same day coverage. ** Five-year warranty. *** 10% or n place of on-site service (products have a 5-year return-to-vend Entex; 3 - Microsoft Corp.; 4 - BEA Systems; 5 - DataComm Wa Audited by Francois Raab of Information Paradi	ninimum 2 spares are or-warranty) Pricing rehouse; 6 - NETLUX	added in : 1 - IBM; 2 -	Fi	ve-Year Co	st of Ov tpmC F	-	\$549,551 18,893.43 29.09

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.

Numerical Quantities Summary

MQTh, computed Maximu	18,893.43 tpmC 0.1078%				
% throughput difference,					
Response Times (in seconds)	90th Percentile	Average	Maximum		
New-Order	0.84	0.57	28.87		
Payment	0.72	0.46	24.03		
Order-Status	0.52	0.38	1.94		
Delivery (Interactive)	0.31	0.32	1.61		
Delivery (Deferred)	0.76	0.53	3.03		
Stock Level	2.49	2.07	4.24		
Menu	0.32	0.20	1.64		
Response time delay added	for menu delay is 0.1 secon	ds.			
Response time delay added	I for response time delay is 0	.1 seconds.			
Transaction Mix, in percei	Percent				
New-Order		566,803	44.89%		
Payment		543,166	43.02%		
Order-Status		50,942	4.03%		
Delivery		50,817	4.02%		
Stock-Level		50,936	4.03%		
Keying/Think Times (in seconds)	Minimum	Average	Maximum		
New-Order	18.00 / 0.00	18.01 / 12.12	18.05 / 121.00		
Payment	3.00 / 0.00	3.01 / 12.08	3.03 / 121.01		
Order Status	2.00 / 0.00	2.01 / 10.05	2.04 / 101.00		
Delivery	2.00 / 0.00	2.01 / 5.11	2.03 / 51.00		
Stock-Level	2.00 / 0.00	2.01 / 5.04	2.03 / 51.00		
Test Duration					
Ramp-up time	0 hour, 44 minutes, 2 seconds				
Measurement interval	30 minutes				
Number of checkpoints in m	1				
Checkpoint interval	30 minutes				
Number of transactions (all	1,262,664				