TDN		IBM @server xSeries 225 c/s				TPC-C Rev. 5.0			
loi	with Microsoft SQL Server 2000 Report Date: 2002				ate: Decen	: December 4,			
Total System Cost	TPC-C Throughput			Price/F	Price/Perform		nance Availability I		
\$50,509	18, 077.98 tpmC			\$2.79 / tp				uary 12, 003	
Processors	Datab	ase Ma	inager	Operating	g System		Other Software		Number of Users
Database Server: 1 Intel [®] Xeon [™] 2.4GHz Client: 1 Pentium [®] III 1.4GHz	SQL Stand	Aicrosoft [®] A Server 2000 Idard Edition with SP3		Microsoft Windows® 2000 Server with SP2		Microsoft Vis Microsoft (14,700
1 RTE emulating	14,700	Users]						
Image: state of the state									
1 x IBM xSeri 1 x 1.4GHz P			1 x 18	lylex AcceleR 8.2GB Drive 3.4GB Drives		apters		XP300 Stora 8.2GB Drive	
System Component Processors Cache Memory		Qty 1 2 2	512KE 256MI 1GB E RDIM	z Xeon 8 L2 Cache 8 CCC SDRA M	M	Qty 1 3 1	512KB 128MB 256MB	Pentium L2 Cache	
Disk Controllers Disk Drives Total Storage Tape Drive		3 1 57 2 1	Adapt Integra 18.2GI 73.4GI 1101.6	AcceleRA er with 32 ated Ultra B (10000 r] B (10000 r] 5GB GB SCSI T	MB 320 SCSI pm) pm)	1		0 SCSI Ir Hard Dis	
rape Dire		1	20/400		apt Dilve				

IBM Corporation	IBM @sei	TPC-C Rev. 5.0 Report Date: December 4, 2002					
	with Microsoft SQL Server 2000						
Description	Order Number	T Brand	hird-Party Pricing	Unit Price	Qty	Ext. Price	3-Yr. Maint.*
Server Hardware							
xSeries 225 w/ 1 x 2.4GHz/512KB Xeon 2 x 256MB 133MHz ECC SDRAM Integrated Gigabit Ethernet Interface Integrated Dual-Channel Ultra320 SCSI	8647-3AX	IBM	1	\$1,529	1	\$1,529	\$698
1GB ECC SDRAM RDIMM Memory Kit	33L5039	IBM	1	779	2	1,558	(
Mylex AcceleRAID A352 SCSI Adapter	08P2420	Mylex	3	610	5	3,050	(
Netfinity 4.2M Ultra2 SCSI Cable	03K9311	IBM	1	105	6	630	(
E54 15" (13.8" Viewable) Color Monitor*	633147N	IBM	1	139	1	139	90
20/40GB Internal SCSI Tape Drive	00N7991	IBM	1	769	1	769	(
Storage Hardware							
EXP300 Rack Storage Enclosure*	3531-1RU	IBM	1	3,179	4	12,716	800
EXP300 Rack-to-Tower Conversion Kit	09N7296	IBM	1	319	1	319	(
18.2GB 10K Ultra160 SCSI Drive	06P5754	IBM	1	275	57	15,675	(
73.4GB 10K Ultra160 SCSI Drive	06P5756	IBM	1	769	2	1,538	(
NetBAY11 Enterprise Rack*	9306110	IBM	1	519	1	519	16
				S	ubtotal	\$38,442	\$1,75
Server Software							
Microsoft SQL Server 2000 Standard Edition	228-01079	Microsof	ït 2	4,999	1	\$4,999	\$
Microsoft Windows 2000 Server	C11-00821	Microso	it 2	738	1	738	
Three-Year Maintenance for Software		Microso	it 2	1,950	3		5,85
				S	ubtotal	\$5,737	\$5,850
Client Hardware							
xSeries 220 / 1.4GHz/512KB Pentium III* 1 x 128MB 133MHz ECC SDRAM	8646-51X	IBM	1	1,089	1	\$1,089	\$698
256MB 133MHz ECC SDRAM RDIMM	10K0020	IBM	1	219	1	219	(
128MB 133MHz ECC SDRAM RDIMM	10K0018	IBM	1	115	2	230	(
18.2GB 10K Ultra160 SCSI Drive	06P5754	IBM	1	275	1	275	(
IBM 10/100 Dual-Port Server Adapter	22P4901	IBM	1	209	2	418	(
E54 15" (13.8" Viewable) Color Monitor*	633147N	IBM	1	139	1	139	90
				S	ubtotal	\$2,370	\$78
Client Software	011 00001	Minner	t 2	700	1	700	(
Microsoft Windows 2000 Server with COM+ Microsoft Visual C++	C11-00821 254-00170	Microsof Microsof		738 109	1	738 109	(
	204-00170	IVIICI USU	ι 2		ubtotal		\$
User Connectivity				-			+
Cross-over Cable (7 ft.)*** (incl. 2 spares)	CBLC5C7		4	2	3	6	(
				S	ubtotal	\$6	\$0
					Total	\$47,402	\$8,394
Large volume discount on IBM hardware of	f 14%; prices va	ry if	1			\$5,287	\$0
purchased separately.	M hardwara hav	. h					
Notes: * The standard 3-year warranties on IE upgraded to 7x24x4 including parts exchange ** Five-year warranty. *** 10% or minimum 2	(ServicePac 69F spares are addee	9511). d in place		ar Cost of		•	\$50,509
on-site service (products have a 5-year return Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 4 - LanAdapters.com. Audited by Bradley J. A	- Computer Giant	S;		ιpn	nC Rati \$ / tn	•	3,077.98 ¢2 70
				0.4	\$ / tp		\$2.79
Prices used in TPC benchmarks reflect the actual p Individually negotiated discounts are not permitter All discounts reflect standard pricing policies for t benchmark specification. If you find that stated pr Thank you.	 Special prices ba he listed componer 	sed on ass nts. For co	umptions about pas mplete details, see t	t or future pu he pricing se	rchases actions of	are not permi	

	Numerical Quant	tities Summary		
MQTh, Computed Maximum	Qualified Throughput:		18,077.98 tpmC	
Response Times (in seconds)	Average	Maximum	90 %-tile	
New-Order	0.60	5.52	0.90	
Payment	0.39	5.24	0.66	
Delivery	0.30	1.25	0.56	
Stock Level	2.83	6.75	4.53	
Order Status	0.49	5.47	0.78	
Delivery (Deferred)	1.07	3.52	1.68	
Menu	0.31	1.28	0.58	
Transaction Mix (in perc	ent of total transactions)	Total Occurrences	Percent	
New-Order		2,169,358	44.89	
Payment		2,078,008	43.00	
Delivery		195,411	4.04	
Stock-Level		194,767	4.03	
Order Status		194,960	4.03	
Emulation Delay (in seconds)		Response Time	Menu	
New-Order		0.1	0.1	
Payment		0.1	0.1	
Delivery		0.1	0.1	
Stock-Level		0.1	0.1	
Order Status		0.1	0.1	
Keying/Think Times (in seconds)	Average	Minimum	Maximum	
New Order	18.01 / 12.03	18.00 / 0.00	18.03 / 120.50	
Payment	3.01 / 12.03	3.00 / 0.00	3.03 / 120.50	
Delivery	2.01 / 5.02	2.00 / 0.00	2.02 / 50.50	
Derivery				
Stock Level	2.01 / 5.01	2.00 / 0.00	2.02 / 50.50	
-	2.01 / 5.01 2.01 / 10.02	2.00 / 0.00 2.00 / 0.00	2.02 / 50.50 2.02 / 100.50	
Stock Level				
Stock Level Order Status				
Stock Level Order Status Test Duration			2.02 / 100.50 18 minutes	
Stock Level Order Status Test Duration Ramp-up time Measurement interval		2.00 / 0.00	2.02 / 100.50	
Stock Level Order Status Test Duration Ramp-up time Measurement interval	2.01 / 10.02	2.00 / 0.00	2.02 / 100.50 18 minutes 120 minutes	
Stock Level Order Status Test Duration Ramp-up time Measurement interval Number of transactions (all	2.01 / 10.02	2.00 / 0.00	2.02 / 100.50 18 minutes 120 minutes 5,027,871	