		IBM @server™ xSeries® 235 c/s With Microsoft® SQL Server 2000				5 c/s	TPC-C Rev. 5.1		
						00	Report Date: July 10, 2003		
Total System Co	Total System Cost		TPC-C Throughput		Price/Performa		nance Availab		ility Date
\$46,539	\$46,539		18,936.05 tpmC		\$2.46 / tpmC		mC	July 10, 2003	
Processors	Datab	base Manager		Operating	g System C		Other Software		Number of Users
Database Server: 1 Intel® Xeon™ DP 3.06GHz Client: 1 Xeon DP 2.4GHz	Microsoft SQL Server 2000 Standard Edition		Microsoft Windows® Server 2003 Standard Edition		Microsoft Visual C++ Microsoft COM+			15,300	
1 v IDM vC	IBM			IBM					
1 x 1810 x 50 1 x 2.4GHz	eries 225 : Xeon DP	,	1 x 3. 3 x M 1 x 18	M xSeries 23 06GHz/512Kl ylex AcceleR 3.2GB Drive 3.4GB Drives	B Xeon DP	apters		XP300 Stora 8.2GB Drive	
		Qty 1 2 2	1 x 3. 3 x M 1 x 18 2 x 73 Server 3.06Gl 512KE 256MI 1GB E	06GHz/512K ylex AcceleR, 3.2GB Drive 3.4GB Drives Hz Xeon D B L2 Cache B	B Xeon DP AID A352 Ada	Qty 1	42 x1		es
System Component Processors Cache		Qty 1	1 x 3. 3 x M 1 x 18 2 x 73 Server 3.06Gl 512KE 256Ml 1GB E RDIM Mylex Adapt Integr 18.2Gl 73.4Gl	06GHz/512K ylex AcceleR, 3.2GB Drive 3.4GB Drives Hz Xeon D B L2 Cache B	B Xeon DP AID A352 Ada P P M ID A352 MB 320 SCSI pm) pm)	Qty 1	42 x16 Client 2.4GHz 512KB 1 256MB	8.2GB Drive Xeon DP	es

IBM Corporation

IBM @server xSeries 235 c/s with Microsoft SQL Server 2000

TPC-C Rev. 5.1

Report Date: July 10, 2003

				•		•	
Description			d-Party			Ext. Price	-
		Brand	Pricing	Price			Maint.*
Server Hardware							
xSeries 235 w/ 1 x 3.06GHz/512KB Xeon DP	8671-81X	IBM	1	\$2,949	1	\$2,949	\$689
2 x 256MB PC2100 ECC SDRAM				+ =,- :-	·	+ -,- :-	****
Integrated Dual-Channel Ultra320 SCSI							
1GB ECC SDRAM RDIMM Memory Kit	33L5039	IBM	1	659	2	1,318	0
18.2GB 10K Ultra160 SCSI Drive	06P5754	IBM	1	275	1	275	0
Mylex AcceleRAID A352 SCSI Adapter (+2)	08P2420	Mylex	3	580	5	2,900	0
Netfinity 4.2M Ultra2 SCSI Cable	03K9311	IBM	1	105	6	630	0
E54 15" (13.8" Viewable) Color Monitor*	633147N	IBM	1	129	1	129	90
20/40GB Internal SCSI Tape Drive	00N7991	IBM	1	699	1	699	0
Storage Hardware EXP300 Rack Storage Enclosure*	3531-1RU	IBM	1	3,179	3	9,537	600
18.2GB 15K Ultra160 SCSI Drive	06P5767	IBM	1	3,179	42	13,818	000
73.4GB 10K Ultra160 SCSI Drive	06P5756	IBM	1	639	2	1,278	0
NetBAY11 Enterprise Rack*	9306110	IBM	1	519	1	519	168
					ubtotal	\$34,052	\$1.547
Server Software				_		, - ,	, ,-
Microsoft SQL Server 2000 Standard Edition	228-01070	Microsoft	2	4,999	1	\$4,999	\$0
Microsoft Windows Server 2003 SE	P73-00295	Microsoft	2	738	1	738	0
Three-Year Maintenance for Software	1 70 00200	Microsoft	2	1,950	3	700	5,850
The state of the s			_	,	ubtotal	\$5,737	\$5,850
Client Hardware				_		ψο,. σ.	40,000
xSeries 225 / 2.4GHz/512KB Xeon DP*	8647-3AX	IBM	1	1,269	1	\$1,269	\$689
2 x 256MB PC2100 ECC SDRAM	0047-07-0	IDIVI	'	1,200	'	Ψ1,200	ΨΟΟΟ
256MB PC2100 ECC SDRAM RDIMM	33L5037	IBM	1	165	2	330	0
18.2GB 10K Ultra160 SCSI Drive	06P5754	IBM	1	275	1	275	0
IBM 10/100 Dual-Port Server Adapter	22P4901	IBM	1	209	2	418	0
E54 15" (13.8" Viewable) Color Monitor*	633147N	IBM	1	129	1	129	90
				S	ubtotal_	\$2,421	\$779
Client Software							
Microsoft Windows 2000 Server with COM+	C11-00821	Microsoft	2	738	1	738	0
Microsoft Visual C++ Standard	254-00170	Microsoft	2	109	1	109	0
				S	ubtotal_	\$847	\$0
User Connectivity							
Cross-over Cable (7 ft.)*** (+2)	CBLC5C7		4	2	3	6	0
				5	ubtotal_ Total	\$6 \$43,063	\$0 \$8,176
IDM bendance discount of 440/ and account	. 16		4		10tai _		
IBM hardware discount of 14%; prices vary	-		1			\$4,700	\$0
Notes: * The standard 3-year warranties on IE upgraded to 7x24, 4-hour response time covers.		e been	Three-Yea	r Cost of	Ownersh	ip:	\$46,539
** Five-year warranty. *** 10% or minimum 2		d in place of					
on-site service (products have a 5-year return	ı-to-vendor-warra	nty)		tp	mC Ratin	ı g : 18	3,936.05
1 - IBM List Price, 1-866-426-0472; 2 - Micros							
Giants; 4 - LanAdapters.com Audited by Bradley J. Askins of InfoSizing, Inc			\$ / tpm	nC:	\$2.46		
Prizes used in TPC benchmarks reflect the estual		vould mary for a	L	as of the at	atad aamm	omonto	

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 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 Maximum Qualified Throughput: 18,936.05 tpmC						
New-Order	0.82	6.38				
Payment	0.54	5.08				
Delivery	0.41	1.03				
Stock Level	evel 4.54 2.54					
Order Status	0.75	7.65				
Delivery (Deferred)	1.85	1.25	4.75			
Menu	0.42	0.22	1.08			
Response Time Delay Added for Emulated Components: 0.1 Seconds						
Transaction Mix (in perce	nt of total transactions)		Percent			
New-Order			44.87			
Payment	43.00					
Delivery	4.06					
Stock-Level	4.03					
Order Status	4.04					
Keying/Think Times (in seconds)	Minimum	Average	Maximum			
New Order	18.00 / 0.00	18.01 / 12.04	18.03 / 120.50			
Payment	3.00 / 0.00	3.01 / 12.04	3.03 / 120.50			
	1					
Delivery	2.00 / 0.00	2.01 / 5.03	2.04 / 50.50			

Order Status	2.00 / 0.00	2.01 / 10.01	2.02 / 100.50			
Test Duration						
Ramp-up time			30 minutes 15 seconds			
Measurement interval			120 minutes			
Number of checkpoints			4			
Checkpoint interval			30 minutes			
Number of transactions (al	5,270,282					