IBM		IBM @server xSeries 235 c/s with Microsoft SQL Server 2000 Report Date: August 16, 2					st 16, 2002		
Total System Cost		TPC-C Throughput			Price/Perform		nance Availability		oility Date
\$52,526		17, 559.31 tpmC			\$2.99 / tpm(mC	August 16, 2002	
Processors	Datab	pase Manager		Operating System		Other Soft		ware	Number of Users
Database Server: 1 Intel [®] Xeon™ 2.4GHz Client: 1 Pentium [®] III 1.4GHz	SQL	Microsoft [®] SQL Server 2000 Standard Edition		Microsoft Windows® 2000 Server		Microsoft Visu 6.0 Win3 Microsoft Co		132	14,140
1 x IBM xSe 1 x 1.4GHz I		1	1 x 2.4 3 x My 1 x 18	M xSeries 23: 4GHz/512KB /lex AcceleRA .2GB Drive .4GB Drives	Xeon Proces			(P300 Stora 3.2GB Drive	
Processors Cache Memory Disk Controllers Disk Drives		1 2 2 2 3 1 57	2.4GH 512KE 128MI 1GB E RDIM Mylex Adapt Integr 18.2GI	Iz Xeon B L2 Cache B CCC SDRA M AcceleRA er with 321 ated Ultra B (10000 r)	M ID A352 MB 320 SCSI pm)	1 2 1 1	1.4GHz 512KB 1 128MB 256MB Ultra16	Pentium L2 Cache 0 SCSI In Hard Dis	nterface
Total Storage Tape Drive		1	1100.4	B (10000 r) 5GB GB SCSI T	,				

IBM Corporation

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

TPC-C Rev. 5.0

Report Date: August 16, 2002

				-		-	
Description	Order Number	Thir Brand	d-Party Pricing	Unit Price	Qty	Ext. Price	3-Yr. Maint.*
Server Hardware							
xSeries 235 w/ 1 x 2.4GHz/512KB Xeon	8671-41X	IBM	1	\$3,449	1	\$3,449	\$748
2 x 128MB 133MHz ECC SDRAM Integrated Dual-Channel Ultra320 SCSI				**,		4 - , · · · ·	** **
1GB ECC SDRAM RDIMM Memory Kit	33L5039	IBM	1	989	2	1,978	C
Mylex AcceleRAID A352 SCSI Adapter	08P2420	Mylex	3	590	5	2,950	(
Netfinity 4.2M Ultra2 SCSI Cable	03K9311	IBM	1	105	6	630	Ò
E54 15" (13.8" Viewable) Color Monitor* 20/40GB Internal SCSI Tape Drive	633147N 00N7991	IBM IBM	1 1	139 769	1 1	139 769	90
Storage Hardware	00117 99 1	IDIVI	1	709	'	709	,
EXP300 Rack Storage Enclosure*	3531-1RU	IBM	1	3,179	4	12,716	800
EXP300 Rack-to-Tower Conversion Kit	09N7296	IBM	1	3,179	1	319	000
18.2GB 10K Ultra160 SCSI Drive		IBM	1				
73.4GB 10K Ultra160 SCSI Drive	06P5754 06P5756	IBM	1	275 769	57 2	15,675 1,538	C
		IBM	1	519	1		
NetBAY11 Enterprise Rack*	9306110	IDIVI	I		ubtotal	519 \$40,682	168 \$1,806
Server Software					-		
Microsoft SQL Server 2000 Standard Edition	228-01079	Microsoft	2	4,999	1	\$4,999	\$0
Microsoft Windows 2000 Server	C11-00821	Microsoft	2	738	1	738	C
Three-Year Maintenance for Software		Microsoft	2	1,950	3		5,850
				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	\$748
256MB 133MHz ECC SDRAM RDIMM	10K0020	IBM	1	245	1	245	C
128MB 133MHz ECC SDRAM RDIMM	10K0018	IBM	1	115	1	115	C
18.2GB 10K Ultra160 SCSI Drive	06P5754	IBM	1	275	1	275	C
E54 15" (13.8" Viewable) Color Monitor*	633147N	IBM	1	139	1 _	139	90
Client Coffman				S	ubtotal	\$1,863	\$838
Client Software Microsoft Windows 2000 Server with COM+	C11-00821	Microsoft	2	738	1	738	C
Microsoft Visual C++ Professional 6.0 Win32		Microsoft	2	549	1	736 549	(
WICIOSOIT VISUAL C++ PTOTESSIONAL 0.0 WINS2	040-00317	MICIOSOIL	2		ubtotal	\$1,287	\$0
User Connectivity					_		
Cross-over Cable (7 ft.)*** (incl. 2 spares)	CBLC5C7		4	2	3 _	6	C
				S	Subtotal_ Total	\$6 \$49,575	\$0 \$8,494
Laure velouse discount on IDM bandware	£ 4.40/	:£	4		10tai -		
Large volume discount on IBM hardware of purchased separately.	or 14%; prices va	iry if	1			\$5,543	\$0
Notes: * The standard 3-year warranties on IE		e been	Three-Yea	r Cost of	Owners	hip:	\$52,526
upgraded to 7x24, 4-hour response time cover Five-year warranty. *** 10% or minimum 2	•						
on-site service (products have a 5-year return	n-to-vendor-warra	nty)		tpr	nC Ratin	ig: 17	7,559.31
Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 4 - LanAdapters.com			\$ / tpr	mC:	\$2.99		
Audited by Bradley J. Askins of InfoSizing, Inc	C						Ψ=.00
Prices used in TPC benchmarks reflect the actual		vould pay for a	one-time purcha	ase of the st	ated comp	onents.	

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 Maximun	n Qualified Throughput:		17,559.31 tpmC			
Response Times (in seconds)	Average	Maximum	90 %-tile			
New-Order	0.49	5.22	0.69			
Payment	0.26	4.62	0.43			
Delivery	0.19	0.79	0.35			
Stock Level	2.77	5.81	4.23			
Order Status	0.33	3.67	0.51			
Delivery (Deferred)	0.86	2.81	1.27			
Menu	0.19	0.79	0.36			
Transaction Mix (in perc	cent of total transactions)	Total Occurrences	Percent			
New-Order		2,107,117	44.88			
Payment		2,020,567	43.04			
Delivery		189,719	4.04			
Stock-Level		189,329	4.03			
Order Status		188,414	4.01			
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 / 12.06	18.00 / 0.00	18.09 / 120.50			
Payment	3.01 / 12.05	3.00 / 0.00	3.09 / 120.50			
Delivery	2.01 / 5.06	2.00 / 0.00	2.09 / 50.50			
Stock Level	2.01 / 5.05	2.00 / 0.00	2.09 / 50.50			
Order Status	2.01 / 10.04	2.00 / 0.00	2.09 / 100.50			
Test Duration						
Ramp-up time	23 minutes					
Measurement interval	120 minutes					
Number of transactions (a	4,884,848					
Ramp-down time	10 minutes					
Number of checkpoints in	4					
Checkpoint interval	30 minutes					