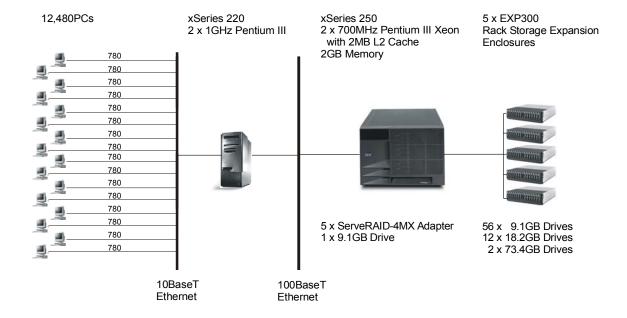


## IBM @server xSeries 250 c/s with Microsoft SQL Server 2000

TPC-C Rev. 5.0

Report Date: Nov. 5, 2001

Total System Cost		TPC-C Throughput		Price/I	Performance	Availability Date		
\$72,487	\$72,487		15,533.72 tpmC		\$4.67 / tpmC		Nov. 5, 2001	
Processors	Datab	pase Manager	Operating System		Other Software		Number of Users	
Database Server = 2 Client = 2	Microsoft <sup>®</sup> SQL Server 2000 Standard Edition		Microsoft Windows® 2000 Server		Microsoft Visual C++ 6.0 Win32 Microsoft COM+		12,480	



Qty	Server	Qty	Client
2	700MHz Pentium III	2	1GHz Pentium III
	Xeon w/2MB L2 Cache		w/256KB L2 Cache
16	128MB ECC SDRAM	1	128MB
	RDIMM	2	256MB
5	ServeRAID-4MX Adapter		
		1	Ultra160 SCSI Interface
57	9.1GB (10000 rpm)		
12	18.2GB (10000 rpm)	1	9.1GB Hard Disk
2	73.4GB (10000 rpm)		
	753.40GB		
1	20/40GB SCSI Tape Drive		
	16 5 57 12 2	700MHz Pentium III Xeon w/2MB L2 Cache 16 128MB ECC SDRAM RDIMM 5 ServeRAID-4MX Adapter  57 9.1GB (10000 rpm) 12 18.2GB (10000 rpm) 2 73.4GB (10000 rpm) 753.40GB	2 700MHz Pentium III 2 Xeon w/2MB L2 Cache 16 128MB ECC SDRAM 1 RDIMM 2 5 ServeRAID-4MX Adapter 57 9.1GB (10000 rpm) 12 18.2GB (10000 rpm) 2 73.4GB (10000 rpm) 753.40GB

## **IBM Corporation**

## IBM @server xSeries 250 c/s with Microsoft SQL Server 2000

TPC-C Rev. 5.0

Report Date: Nov. 5, 2001

Description	Order Number	Thir Brand	d-Party Pricing	Unit Price	Qty	Ext. Price	3-Yr. Maint.*
Server Hardware							
xSeries 250 / 700MHz/2MB Pentium III Xeon	8665-7RY		1	\$6,799	1	\$6,799	\$1,495
700MHz/2MB Pentium III Xeon Processor	10K2332		1	2.879	1	2,879	0
128MB ECC SDRAM RDIMM Memory Kit	33L3113		1	109	12	1,308	0
ServeRAID-4MX Ultra160 SCSI Adapter	06P5736		1	999	5	4.995	0
Netfinity 4.2M Ultra2 SCSI Cable	03K9311		1	105	10	1,050	0
E54 14" (13.8" Viewable) Color Monitor*	6331N2N		1	149	1	149	90
20/40GB Internal SCSI Tape Drive	00N7991		1	769	1	769	0
NetBAY25 Rack*	9306250		1	1,295	1	1,295	300
Storage Hardware							
Netfinity EXP300 Rack Storage Enclosure*	35311RU		1	3,179	5	15,895	1,000
9.1GB 10K Ultra160 SCSI Drive	37L7204		1	275	57	15,675	0
18.2GB 10K Ultra160 SCSI Drive	37L7205		1	275	12	3,300	0
73.4GB 10K Ultra160 SCSI Drive	06P5756		1	1,099	2	2,198	0
				S	ubtotal	\$56,312	\$2,885
Server Software							
Microsoft SQL Server 2000 Standard Edition	228-01079	Microsoft	2	4,999	2	\$9,998	\$0
Microsoft Windows 2000 Server	C11-00821	Microsoft	2	738	1	738	0
Three-Year Maintenance for Software		Microsoft	2	2,095	3		6,285
				•	ubtotal	\$10,736	\$6,285
Client Hardware					•		
xSeries 220 / 1GHz/256KB Pentium III*	8642-21X		1	849	1	\$849	\$738
1GHz/256KB Pentium III Processor	10K0051		1	599	1	599	0
256MB 133MHz ECC SDRAM RDIMM	33L3144		1	245	2	490	0
9.1GB 10K Ultra160 SCSI Drive	37L7204		1	275	1	275	0
E54 15" (13.8" Viewable) Color Monitor*	6331N2N		1	149	1	149	90
				S	ubtotal	\$2,362	\$828
Client Software							
Microsoft Windows 2000 Server with COM+	C11-00821	Microsoft	2	738	1	738	0
Microsoft Visual C++ Professional 6.0 Win32	048-00317	Microsoft	2	549	1.	549	0
				S	ubtotal	\$1,287	\$0
Connectivity							
7-Foot Crossover Cable (incl. 2 spares)			3	2	3	6	0
				S	ubtotal		\$0
Discount on IDM Handware 440/			1		Total	\$70,703 (8,214)	\$9,998 \$0
Discount on IBM Hardware 14%	M hardware hav	o hoon	<u>'</u>			(0,214)	<b>Ф</b> О
Notes: * The standard 3-year warranties on IE upgraded to 7x24, 4-hour response time of		e neen	Three-Yea	ar Cost of	Owners	hip:	\$72,487
** Five-year warranty. *** 10% or minimum 2	spares are added			tn	mC Rati	ina: 1	5,533.72
on-site service (products have a 5-year return		nty)		ιþ	IIIO Kali	iiig. IS	J,JJJ. I Z
Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 - Audited by Bradley J. Askins of InfoSizing, Inc					\$ / tp	mC:	\$4.67
Addited by bradiey J. Askiris of iniosizing, inc	<i>.</i> .				Ψ, τρ		ψ1.01

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	15,533.72 tpmC				
Response Times (in seconds)	Average	Maximum	90 %-tile		
New-Order	0.46	5.11	0.67		
Payment	0.29	4.31	0.48		
Delivery	0.16	0.77	0.30		
Stock Level	2.19	5.01	3.43		
Order Status	0.33	4.91	0.53		
Delivery (Deferred)	0.61	2.08	0.91		
Menu	0.16	0.79	0.30		
Transaction Mix (in perc	ent of total transactions)	Total Occurrences	Percent		
New-Order		1,864,047	44.87		
Payment		1,787,404	43.02		
Delivery		168,544	4.06		
Stock-Level		167,841	4.04		
Order Status		166,736	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 / 12.05	18.00 / 0.00	18.07 / 120.50		
Payment	3.01 / 12.05	3.00 / 0.00	3.07 / 120.50		
Delivery	2.01 / 5.07	2.00 / 0.00	2.06 / 50.50		
Stock Level	2.01 / 5.03	2.00 / 0.00	2.06 / 50.49		
Order Status	2.01 / 10.04	2.00 / 0.00	2.06 / 100.50		
Test Duration					
Ramp-up time	25 minutes				
Measurement interval	120 minutes				
Number of transactions (a	4,323,094				
Ramp-down time	39 minutes				
Number of checkpoints in	4				
Checkpoint interval	30 minutes				