

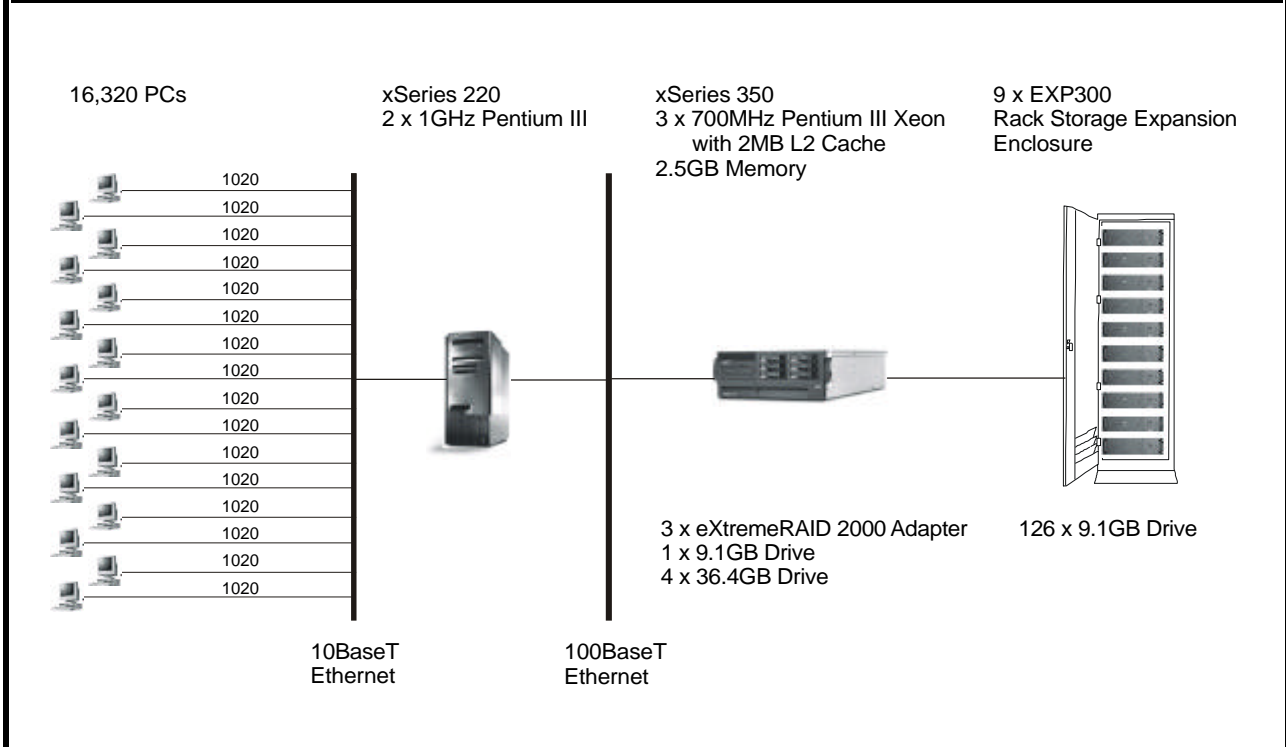
**IBM @server xSeries 350 c/s
with Microsoft SQL Server 2000**

TPC-C Rev. 5.0

Report Date: Oct. 1, 2001

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$110,015	20,422.01 tpmC	\$5.39 /tpmC	Oct. 1, 2001

Processors	Database Manager	Operating System	Other Software	Number of Users
3 Database Server 2 Client	Microsoft[®] SQL Server 2000 Standard Edition	Microsoft Windows[®] 2000 Server	Microsoft Visual C++ 6.0 Win32 Microsoft COM+	16,320



System Component	Qty	Server	Qty	Client
Processors	3	700MHz Pentium III	2	1GHz Pentium III
Cache		Xeon w/2MB L2 Cache		w/256KB L2 Cache
Memory	4	128MB	1	128MB
	8	256MB	2	256MB
Disk Controllers	3	Mylex eXtremeRAID 2000	1	Ultra160 SCSI Interface
Disk Drives	127	9.1GB (10000 rpm)	1	9.1GB Hard Disk
	4	36.4GB (10000 rpm)		
Total Storage		1301.3GB		
Tape Drive	1	20/40GB SCSI Tape Drive		

IBM Corporation	IBM @server xSeries 350 c/s with Microsoft SQL Server 2000			TPC-C Rev. 5.0			
	Report Date: Oct. 1, 2001						
Description	Order Number	Third-Party Brand	Pricing	Unit Price	Qty	Ext. Price	3-Yr. Maint.*
Server Hardware							
xSeries 350 / 700MHz/2MB Pentium III Xeon'	86825RY			1		\$5,199	\$2,495
700MHz/2MB L2 Cache Processor Upgrade	00N7944			1	2	5,758	0
256MB ECC SDRAM RDIMM Memory Kit	33L3115			1	8	2,152	0
Mylex eXtremeRAID 2000 Adapter**	E2000-4-32NB	Mylex		3	5	9,360	0
Netfinity 4.2M Ultra2 SCSI Cable	03K9311			1	9	945	0
10/100 Ethernet Server Adapter	06P3601			1	1	99	0
E54 14" (13.8" Viewable) Color Monitor*	6331N2N			1	1	159	90
20/40GB Internal SCSI Tape Drive	00N7991			1	1	769	0
Netfinity Rack*	9306900			1	1	1,725	300
Side Panel Kit	94G6669			1	1	195	0
Storage Hardware							
Netfinity EXP300 Rack Storage Enclosure*	35311RU			1	9	28,611	1,800
9.1GB 10K Ultra160 SCSI Drive	37L7204			1	127	34,925	0
36.4GB 10K Ultra160 SCSI Drive	37L7206			1	4	2,196	0
						Subtotal	\$92,093 \$4,685
Server Software							
Microsoft SQL Server 2000 Standard Edition	228-00968	Microsoft		2	3	\$12,813	\$0
Microsoft Windows 2000 Server	C11-00821	Microsoft		2	1	738	0
Three-Year Maintenance for Software		Microsoft		2	3		6,285
						Subtotal	\$13,551 \$6,285
Client Hardware							
xSeries 220 / 1GHz/256KB Pentium III*	864221X			1	1	\$849	\$1,495
1GHz/256KB L2 Cache Processor Upgrade	10K0051			1	1	599	0
256MB 133MHz ECC SDRAM RDIMM	33L3125			1	2	490	0
9.1GB 10K Ultra160 SCSI Drive	37L7204			1	1	275	0
E54 15" (13.8" Viewable) Color Monitor*	6331N2N			1	1	159	90
						Subtotal	\$2,372 \$1,585
Client Software							
Microsoft Windows 2000 Server with COM+	C11-00821	Microsoft		2	1	738	0
Microsoft Visual C++ Professional 6.0 Win32	048-00317	Microsoft		2	1	549	0
						Subtotal	\$1,287 \$0
User Connectivity							
8-Port 10/100Mbps Nway Fast Ethernet	NX-DSS8			4	3	72	0
						Subtotal	\$72 \$0
						Total	\$109,375 \$12,555
Large volume discount of 14% on IBM hardware; prices will vary if purchased separately.							(\$11,915) \$0
Notes: * The standard 3-year warranties on IBM hardware have been upgraded to 7x24, 4-hour response time coverage. ** Five-year warranty. *** 10% or minimum 2 spares are added in place of on-site service (products have a 5-year return-to-vendor-warranty)				Three-Year Cost of Ownership:		\$110,015	
Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 - Mylex ; 4 - SHI				tpmC Rating:		20,422.01	
				\$ / tpmC:		\$5.39	
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:			20,422.01 tpmC
Response Times (in seconds)	Average	Maximum	90 %-tile
New-Order	0.38	5.34	0.50
Payment	0.20	4.50	0.28
Delivery	0.13	0.96	0.20
Stock Level	2.10	4.67	3.21
Order Status	0.24	5.32	0.33
Delivery (Deferred)	0.63	1.89	0.88
Menu	0.14	1.01	0.21
Transaction Mix (in percent of total transactions)		Total Occurrences	Percent
New-Order		2,450,641	44.89
Payment		2,349,489	43.04
Delivery		220,368	4.04
Stock-Level		219,797	4.03
Order Status		218,863	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 / 12.04	3.00 / 0.00	3.08 / 120.51
Delivery	2.01 / 5.06	2.00 / 0.00	2.07 / 50.50
Stock Level	2.01 / 5.04	2.00 / 0.00	2.07 / 50.50
Order Status	2.01 / 10.05	2.00 / 0.00	2.07 / 100.50
Test Duration			
Ramp-up time			87 minutes
Measurement interval			120 minutes
Number of transactions (all types) completed in measurement interval			5,679,518
Ramp-down time			6 minutes
Number of checkpoints in measurement interval			4
Checkpoint interval			30 minutes