

IBM Corporation

Audited by Bradley J. Askins of InfoSizing, Inc.

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

TPC-C Rev. 5.0 Upgrade from Rev. 3.5

Report Date: April 9, 2001 (Original: December 12, 2000)

Description	Order Number	Third	d-Party	Unit	Qty	Ext. Price	3-Yr.	
		Brand	Pricing	Price			Maint.*	
Server Hardware								
xSeries 350 / 700MHz/2MB Pentium III Xeon	86825RY		1	\$5,369	1	\$5,369	\$2,495	
700MHz/2MB L2 Cache Processor Upgrade	00N7944		1	2,879	3	8,637	0	
512MB ECC SDRAM RDIMM Memory Kit	33L3117		1	749	15	11,235	0	
Netinity 9.1GB 10K Ultra160 SCSI Drive	37L7204		1	275	1	275	0	
Mylex eXtremeRAID 2000 Adapter**	E2000-4-32NB	Mylex	3	1,872	7	13,104	0	
Netfinity 4.2M Ultra2 SCSI Cable	03K9311		1	105	18	1,890	0	
10/100 Ethernet Server Adapter	06P3601		1	99	1	99	0	
E54 14" (13.8" Viewable) Color Monitor*	6331N2N		1	159	1	159	90	
20/40GB Internal SCSI Tape Drive	00N7991		1	769	1	769	0	
Netfinity Rack*	9306900		1	1,725	2	3,450	600	
Side Panel Kit	94G6669		1	195	1	195	0	
Storage Hardware								
Netfinity EXP300 Rack Storage Enclosure*	35311RU		1	3,179	17	54,043	3,400	
9.1GB 15K Ultra160 SCSI Drive	19K0655		1	405	168	68,040	0	
18.2GB 15K Ultra160 SCSI Drive	19K0656		1	549	68	37,332	0	
				s	ubtotal	\$204,597	\$6,585	
Server Software					_	+ - /	7 - 7	
Microsoft SQL Server 2000 Enterprise Edition	810-00846	Microsoft	2	16,541	4	\$66,164	\$0	
Microsoft Windows 2000 Advanced Server	C10-00475	Microsoft	2	2,399	1	2,399	0	
Three-Year Maintenance for Software		Microsoft	2	2,095	3		6,285	
Client Hardware				S	ubtotal	\$68,563	\$6,285	
Netfinity 5100 / 933MHz/256KB Pentium III*	965951V		1	1,719	4	\$6,876	\$5,980	
9.1GB 10K Ultra160 SCSI Drive	37L7204		1	275	4	1,100	ъэ,960 О	
256MB 133MHz ECC SDRAM RDIMM	33L3125		1	269	4	1,100	0	
					4	•	0	
10/100 Ethernet Server Adapter	06P3601		1	99	4	396		
E54 15" (13.8" Viewable) Color Monitor*	6331N2N		1	159		636	360	
Client Software				S	ubtotal	\$10,084	\$6,340	
	044 00004	N4:	2	700	4	0.050	0	
Microsoft Windows 2000 Server with COM+ Microsoft Visual C++ Professional 6.0 Win32		Microsoft Microsoft	2 2	738 549	4 1	2,952 549	0	
Wildred Str. 1 Tolessional 6.5 Wills2	040 00017	WIIOIOGOIT	_		ubtotal	\$3,501	\$0	
User Connectivity					-	+ - /	* -	
8-Port 10/100Mbps Nway Fast Ethernet Switch***	NX-DSS8		4	25	7	175	0	
				s	ubtotal	\$175	\$0	
					Total	\$286,920	\$19,210	
Discount on IBM Hardware			1	-14%	-	(30,055)	\$0	
Notes: * The standard 3-year warranties on IBM hardware has 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-war	on-site service (products have a 5-year return-to-vendor-warranty)				tpmC Rating: 34,264.90			
Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 - Mylex; 4 - So Audited by Bradley J. Askins of InfoSizing. In		onal.			\$ / tpm	ic:	\$8.06	

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 % throughput difference, rep	34,264.90 tpmC 0.064%						
Response Times (in seconds)	Average	Maximum	90 %-tile				
New-Order	0.47	21.29	0.82				
Payment	0.40	27.84	0.75				
Delivery	0.13	7.21	0.16				
Stock Level	1.20	11.88	1.75				
Order Status	0.41	6.04	0.75				
Delivery (Deferred)	0.21	0.89	0.35				
Menu	0.13	13.46	0.17				
Transaction Mix (in perc	ent of total transactions)	Total Occurrences	Percent				
New-Order		685,298	44.89				
Payment		656,525	43.01				
Delivery		61,504	4.03				
Stock-Level		61,582	4.03				
Order Status		61,643	4.04				
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	18.03 / 120.51				
Payment	3.02 / 12.04	3.00 / 0.00	3.03 / 120.50				
Delivery	2.01 / 5.06	2.00 / 0.00	2.03 / 50.50				
Stock Level	2.01 / 5.03	2.00 / 0.00	2.03 / 48.61				
Order Status	2.02 / 10.06	2.00 / 0.00	2.03 / 100.50				
Test Duration							
Ramp-up time	21 minutes						
Measurement interval	20 minutes						
Number of transactions (a	1,588,062						
Ramp-down time	22 minutes						
Number of checkpoints in	1						
Checkpoint interval	20 minutes						