

IBM Corporation

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)

				(Ongm	D CC	0111001 12	, 2000)
Description	Order Number		ird-Party	Unit	Qty	Ext. Price	
		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							
Microsoft SQL Server 2000 Enterprise Edition		Microsoft	2	16,541	4	\$66,164	\$0
Microsoft Windows 2000 Advanced Server Three-Year Maintenance for Software	C10-00475	Microsoft Microsoft	2 2	2,399 2,095	1 3	2,399	0 6,285
Tribe real Maintenance for Contware		WIIOTOSOIT	_	<u>-</u>	ubtotal	\$68,563	\$6,285
Client Hardware				3	ubiolai	φ00,303	φ0,200
Netfinity 5100 / 933MHz/256KB Pentium III*	865851Y		1	1.719	4	\$6,876	\$5,980
9.1GB 10K Ultra160 SCSI Drive	37L7204		1	275	4	1,100	0
256MB 133MHz ECC SDRAM RDIMM	33L3125		1	269	4	1,076	0
10/100 Ethernet Server Adapter	06P3601		1	99	4	396	0
E54 15" (13.8" Viewable) Color Monitor*	6331N2N		1	159	4	636	360
20 : 10 (1010 Themasis) Color monitor	000111211		·		ubtotal	\$10,084	\$6,340
Client Software					ubtotai	Ψ10,004	ψ0,040
Microsoft Windows 2000 Server with COM+	C11-00821	Microsoft	2	738	4	2,952	0
Microsoft Visual C++ Professional 6.0 Win32	048-00317	Microsoft	2	549	1	549	0
				S	ubtotal	\$3,501	\$0
User Connectivity							
8-Port 10/100Mbps Nway Fast Ethernet Switch***	NX-DSS8		4	25	7	175	0
- Cinton				s	ubtotal	\$175	\$0
					Total	\$286,920	\$19,210
Large volume discount of 14% on IBM hardware	; prices vary if pur	chased sepa	arately. 1	-14%	-	(30,055)	\$0
<u> </u>	,,, pw.			70		(,)	

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-warranty)

Pricing: 1 - IBM Corp.; 2 - Microsoft Corp.; 3 - Mylex; 4 - Software House International.

Audited by Bradley J. Askins of InfoSizing, Inc.

Three-Year Cost of Ownership: \$276,075 tpmC Rating: 34,264.90 \$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						