

====	@serve	@server xSeries 370 c/s			TPC-C Rev. 5.0			
	with Microsoft SQL Server 2000		J	Upgrade from Rev. 3.5 Report Date: April 10, 2001 (Original: March 23, 2001)				
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Description	Order Number		Third-Party	Unit Price	Qty	Ext. Price	3-Yr. Maint.*	
		Brand	Pricing					
Server Hardware								
xSeries 370 900MHz/2MB Pentium III Xeon*	8681-3RX	IBM	1	\$19,114	17	\$324,938	\$42,415	
900MHz/2MB L2 Cache Processor Upgrade	19K4637	IBM	1	6,599	119	785,281	0	
8500R Memory Expansion Card	28L4454	IBM	1	625	16	10,000	0	
8500 >4X Accelerator Filter	10K2335	IBM	1	1,249	17	21,233	0	
512MB ECC SDRAM RDIMM Memory Kit	20L0249	IBM	1	1,575	512	806,400	0	
ServeRAID-4H Ultra160 SCSI Adapter	37L6889	IBM	1	2,439	129	314,631	0	
Ultra2 SCSI 4m Cable	03K9311	IBM	1	105	369	38,745	0	
10/100 Ethernet Server Adapter with IPSec	06P3601	IBM	1	99	16	1,584	0	
E54 15" (13.8" Viewable) Color Monitor*	6331N2N	IBM	1	173	17	2,941	1,530	
3502-R14 DLT Tape Autoloader* IBM Smart-UPS Model 5000RMB	3502R14 37L6861	IBM IBM	1	13,779 3,299	1 17	13,779 56,083	1,450 0	
Netfinity Rack*	9306900	IBM	1	1,725	40	69,000	12,000	
Side Panel Kit	94G6669	IBM	1	195	40 6	1,170	12,000	
Hardware installation and prep fees	0100000	IBM	1	100	U	82,700	0	
Giganet cLAN-1000 Host Adapter (incl. 10%)	cLAN-1000	Giganet	-	795	19	15,105	45,000	
Giganet cLAN5300 30-Port Switch (incl. 10%)		Giganet		15,995	2	31,990	incl. above	
Giganet cLAN-A1011 10M Cable (incl. 10%)	cLAN-A1011	Giganet		135	19	2,565	incl. above	
Storage Hardware		- 9	-			_,		
Netfinity EXP300 Rack Storage Enclosure*	35311RU	IBM	1	3,179	353	1,122,187	70,600	
9.1GB 10K Ultra160 SCSI Drive	37L7204	IBM	1	299	38	11,362	0	
18.2GB 10K Ultra160 SCSI Drive	37L7205	IBM	1	467	3,488	1,628,896	0	
					Subtotal	\$5,340,590	\$172,995	
Server Software								
Datacenter OS Preload Kit/Ship Group/Warr.	22P4745	IBM	1			\$972,000	0	
Microsoft SQL Server 2000	11K7641	Microso		15,802	128	2,022,656	0	
Microsoft Windows 2000 Advanced Server	C10-00475	Microso		2,399	1	2,399	0	
3-Year Maintenance for Software		Microso	ft 2	2,095	48		\$100,560	
					Subtotal	\$2,994,656	\$100,560	
Client Hardware		1014		0.050	40	\$ 22,422		
Netfinity 5100 / 733MHz/256KB Pentium III*	8658-2RY	IBM	1	2,052	48	\$98,496	\$71,760	
733MHz/256KB Pentium III Upgrade	00N7943	IBM	1	399	48	19,152	0	
128MB DIMMs 9.1GB 10K Ultra160 SCSI Drive	33L3123 37L7204	IBM IBM	1	185 299	144 48	26,640 14,352	0	
Intel Pro/100+ Dual-Port Ethernet Adapter**	8472	Intel	1	233	40 144	31,536	0	
E54 15" (13.8" Viewable) Color Monitor*	6331N2N	IBM	1	173	48	8,304	4,320	
	000111211	1211	•	110	Subtotal	\$198,480	\$76,080	
Client Software					-	, ,		
Microsoft Windows 2000 Server with COM+	C11-00821	Microso	ft 2	738	48	35,424	incl. above	
Microsoft Visual C++ Professional 6.0	048-00317	Microso	ft 2	549	1	549	incl. above	
					Subtotal	\$35,973	\$0	
User Connectivity					_			
Cisco Catalyst 6500 48-Port 10/100 RJ-45	WSX6348RJ45	Cisco	4	45,652	1	45,652	31,500	
					Subtotal	\$45,652	\$31,500	
				_	Total	\$8,615,351	\$381,135	
Large volume discount; prices will vary if purchased in	ndividually.				iscount	(1,081,342)	\$0 \$004 405	
Notes: * The standard 3-year warranty and the extended warr	anty on IBM hardware i	s for 7x24	4-hour		nd Total	\$7,534,009	\$381,135	
response. ** Five-year warranty. *** 10% or minimum 2 spare (products have a 5-year return-to-vendor warranty)				Five-Year Co	ost of Owr	ership:	\$7,915,144	
Pricing: 1 - IBM; 2 - Microsoft; 3 - Giganet; 4 - Cisco				tpmC Rating: 363,129.75				
Audited by Brad Askins of InfoSizing, Inc.				\$ / tpmC: \$21.80				
Prices used in TPC benchmarks reflect the actual p discounts are not permitted. Special prices based or policies for the listed components. For complete de available according to these terms, please inform the	n assumptions abou etails, see the pricin	it past or f	future purchases are a soft the TPC benchm	not permitted. A	l componen All discount	ts. Individually s reflect standa	negotiated ard pricing	

Numerical Quantities Summary							
MQTh, Computed Maximun % throughput difference, re	363,129.75 tpmC 0.03%						
Response Times (in seconds)	90%	Average	Maximum				
New-Order	0.31	0.22	392.15				
Payment	0.28	0.19	315.38				
Delivery (Interactive)	0.11	0.10	70.07				
Stock-Level	0.56	0.36	52.68				
Order Status	0.20	0.17	10.58				
Delivery (Deferred)	0.24	0.17	6.13				
Menu	0.11	0.11	665.21				
Transaction Mix (in perce	nt of total transactions)	Total Occurrences	Percent				
New-Order		7,262,595	44.84				
Payment		6,973,062	43.06				
Delivery		652,421	4.03				
Stock Level		653,068	4.03				
Order Status		652,396	4.04				
Emulation Delay (in seconds)		Response Time	Menu				
New-Order		0.1	0.1				
Payment		0.1	0.1				
Order-Status		0.1	0.1				
Delivery		0.1	0.1				
Stock-Level		0.1	0.1				
Keying/Think Times (in seconds)	Minimum	Average	Maximum				
New-Order	18.00 / 0.00	18.01 / 12.05	18.06 / 120.50				
Payment	3.00 / 0.00	3.02 / 12.04	3.06 / 120.50				
Delivery	2.00 / 0.00	2.02 / 5.05	2.06 / 50.50				
Stock Level	2.00 / 0.00	2.02 / 5.05	2.03 / 50.50				
Order Status	2.00 / 0.00	2.02 / 10.04	2.06 / 100.50				
Test Duration							
Ramp-up time	29 minutes 28 seconds						
Measurement interval	20 minutes						
Number of transactions (a	16,774,818						
Ramp-down time	21 minutes 45 seconds						
Number of checkpoints in	1						
Checkpoint interval	20 minutes						