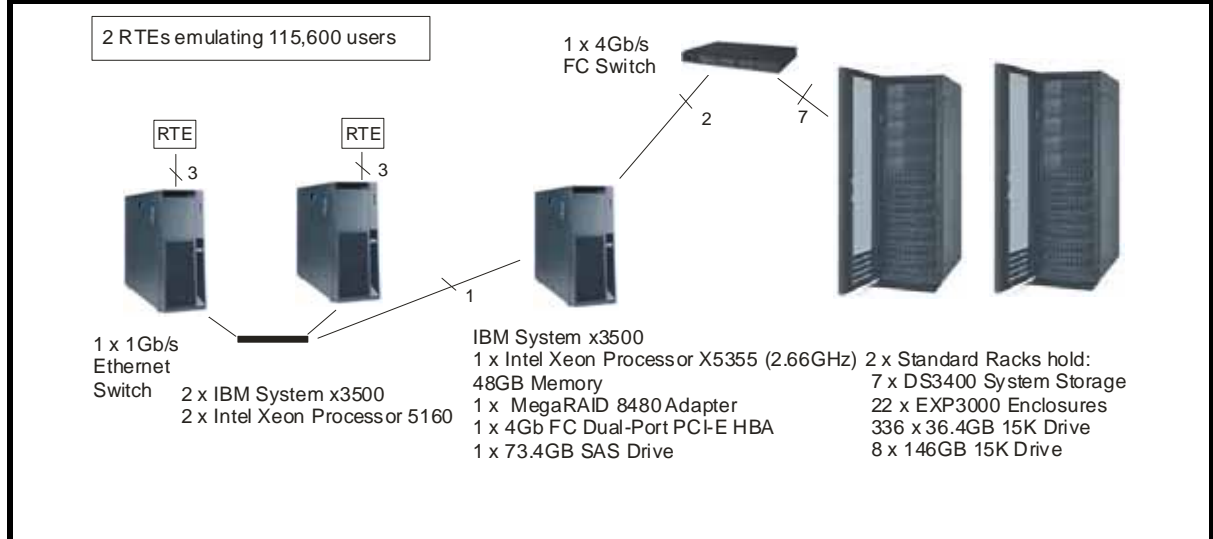


IBM Corporation	IBM® System x3500 c/s Microsoft® SQL Server 2005 (SP2)		TPC-C Rev. 5.8	
			Report Date 04/26/07	
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$282,225 USD	145,180 tpmC	\$1.94 USD /tpmC	May 1, 2007	
Database Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number Of Users
1/4/4 Intel® Xeon® Processor X5355 2.66GHz	Microsoft SQL Server 2005 Enterprise x64 Edition (SP2)	Microsoft Windows® Server 2003 Enterprise x64 Edition (SP2)	Microsoft Visual C++ Standard Edition Microsoft COM+	115,600



System Component	Qty	Server	Qty	Each of 2 Clients
Processors/Cores/Threads	1/4/4	Quad-Core Intel Xeon Processor X5355 (2.66GHz)	1/2/2	Dual-Core Intel Xeon Processor 5160 (3.0GHz)
Cache		2x4MB L2		1x4MB L2 Cache
Memory	12	4GB ECC RDIMM	4	512MB PC2-5300 FBD
Disk Controllers	7 1	IBM System Storage DS3400 IBM 4Gb FibreChannel Dual-Port PCI-E HBA for System x IBM MegaRAID 8480 Adapter		Integrated SAS Interface
Disk Drives	336 8 1	36.4GB 15K H/S SAS Drive 146GB 15K SAS Drive 73.4GB 15K SAS Drive	1	73.4GB 15K SAS
Total Storage		12553.29GB		

Description	Part Number	Third Party Brand	Pricing	Unit Price	Quantity	Extended Price	3-Yr. Maint. Price
Server Hardware							
x3500 with 2.66GHz/8MB Xeon X5355, 1GB (2x512) Memory	7977H2U	IBM	1	3,659	1	3,659	
8GB Kit (2x 4GB DIMM) PC2 5300 DDR2 FBD CL4	39M5797	IBM	1	6,529	6	39,174	
73GB 15K Hot Swap SAS	40K1043	IBM	1	349	1	349	
IBM T115 15-inch TFT Display	494215U	IBM	1	259	1	259	
IBM Preferred Pro USB Keyboard	40K9584	IBM	1	29	1	29	
IBM 3-Button Optical Mouse - Black - USB	40K9201	IBM	1	19	1	19	
ServicePac for 3-Year 24x7x4 Support (x3500)	21P2084	IBM	1	689	1		689
ServicePac for 3-Year 24x7x4 Support (Display)	30L9183	IBM	1	90	1		90
Subtotal						43,489	779
Server Storage							
IBM 4Gb FC Dual-Port PCI-E HBA for IBM System x	39R6527	IBM	1	1,899	1	1,899	
IBM Short Wave SFP Module (4 Pack)	22R0483	IBM	1	550	3	1,650	
IBM 1m LC-LC Fibre Channel Cable	39M5696	IBM	1	79	9	711	
IBM TotalStorage SAN16B-2	2005-16B	IBM	1	3,450	1	3,450	
B16 4-Port Activation	22R4901	IBM	1	1,570	1	1,570	
IBM System Storage DS3400 (single controller)	1726-41X	IBM	1	6,495	7	45,465	
IBM DS3000 EXP3000 Expansion License	39R6537	IBM	1	1,995	7	13,965	
IBM DS3400 Software Feature Pack	42C2143	IBM	1	995	7	6,965	
IBM System Storage EXP3000	1727-01X	IBM	1	3,199	21	67,179	
IBM SAS 1m Cable	39R6529	IBM	1	119	21	2,499	
IBM Hot-Swap 3.5-inch 15K 36.4GB SAS HDD	40K1042	IBM	1	249	336	83,664	
MegaRAID 8480	39R8850	IBM	1	1,199	1	1,199	
3m SAS Cable for MegaRAID 8480	39R6471	IBM	1	119	1	119	
IBM System Storage EXP3000	1727-01X	IBM	1	3,199	1	3,199	
IBM Hot-Swap 3.5-inch 15K 146GB SAS HDD	40K1044	IBM	1	549	8	4,392	
IBM UPS 750TLV	2130R1X	IBM	1	299	1	299	
IBM S2 42U Standard Rack	93074RX	IBM	1	1,489	2	2,978	
ServicePac for 3-Year 24x7x4 Support (DS3400)	44J8073	IBM	1	1,100	7		7,700
ServicePac for 3-Year 24x7x4 Support (EXP3000)	41L2768	IBM	1	787	22		17,314
ServicePac for 3-Year 24x7x4 Support (Rack)	41L2760	IBM	1	300	2		600
Subtotal						241,203	25,614
Server Software							
Microsoft SQL Server 2005 Enterprise x64 Edition	810-03134	Microsoft	2a	23,911	1	23,911	
Microsoft Windows Server 2003 Enterprise x64 Edition	P72-00981	Microsoft	2b	2,334	1	2,334	
Microsoft Problem Resolution Services		Microsoft	2	245	1		245
Subtotal						26,245	245
Client Hardware							
x3500 with 3.0GHz/2x2MB Xeon 5160, 1GB (2x512) Memory	797792U	IBM	1	3,399	2	6,798	
1GB (2x512MB) PC2-5300 CL5 ECC DDR2 FBD 667MHz	39M5782	IBM	1	459	2	918	
73GB 15K Hot Swap SAS	40K1043	IBM	1	349	2	698	
PRO/1000 PT Dual-Port Server Adapter	39Y6126	IBM	1	269	4	1,076	
ServicePac for 3-Year 24x7x4 Support (x3500)	21P2084	IBM	1	689	2		1,378
Subtotal						9,490	1,378
Client Software							
Microsoft Windows Server 2003 Standard x86 Edition	P73-00295	Microsoft	2c	719	2	1,438	
Microsoft Visual C++ Standard Edition	254-00170	Microsoft	2	109	1	109	
Subtotal						1,547	0
Network Components							
NetGear 8-Port Ethernet Switch (2 spares)	GS108		3	70	3	210	
Ethernet Cable (2 spares)	A3L791-10-BLK		3	4	5	20	
Subtotal						230	
Total						322,204	28,016

Large Purchase Discount (See Note 1.) 21.12% 1 \$67,995

Pricing: 1 - IBM - 1-888-SHOP-IBM, ext. 5821; 2 - Microsoft, 2a = 4.35%; 2b = 41.64%;
2c = 28% discount; 3 - newegg.com
Note 1: Discount based on IBM Direct guidance applies to all line items where Pricing=1. Pricing is for this system or one of similar size.

Three-Year Cost of Ownership USD: \$282,225
tpmC: 145,180
\$ USD/tpmC: \$1.94

Audited by Francois Raab, InfoSizing, Inc. (www.sizing.com)
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 specifications. If you find that stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org.

IBM Corporation	IBM® System x3500 c/s Microsoft® SQL Server 2005 (SP2)	TPC-C Rev. 5.8	
		Report Date 04/26/07	
Numerical Quantities Summary			
MQTh, Computed Maximum Qualified Throughput: 145,180 tpmC			
Response Times (in seconds)	90th Percentile	Average	Maximum
New Order	0.54	0.34	8.36
Payment	0.52	0.31	8.30
Delivery	0.18	0.14	7.83
Stock Level	0.54	0.34	8.27
Order Status	0.54	0.34	8.33
Delivery (Deferred)	0.13	0.10	3.72
Menu	0.17	0.14	7.83
Response Time Delay Added for Emulated Components: 0.1 Seconds			
Transaction Mix (in percent of total transactions)			Percent
New Order			44.96
Payment			43.02
Delivery			4.01
Stock Level			4.01
Order Status			4.01
Keying/Think Times (in seconds)	Minimum	Average	Maximum
New Order	18.00 / 0.00	18.00 / 12.03	18.02 / 120.31
Payment	3.00 / 0.00	3.00 / 12.03	3.02 / 120.31
Delivery	2.00 / 0.00	2.00 / 5.04	2.02 / 50.31
Stock Level	2.00 / 0.00	2.00 / 5.03	2.02 / 50.31
Order Status	2.00 / 0.00	2.00 / 10.03	2.02 / 100.31
Test Duration			
Ramp-up Time			47 minutes 39 seconds
Measurement Interval			120 minutes
Number of Checkpoints			4
Checkpoint Interval			30 minutes
Number of transactions (all types) completed in measurement interval			40,309,170