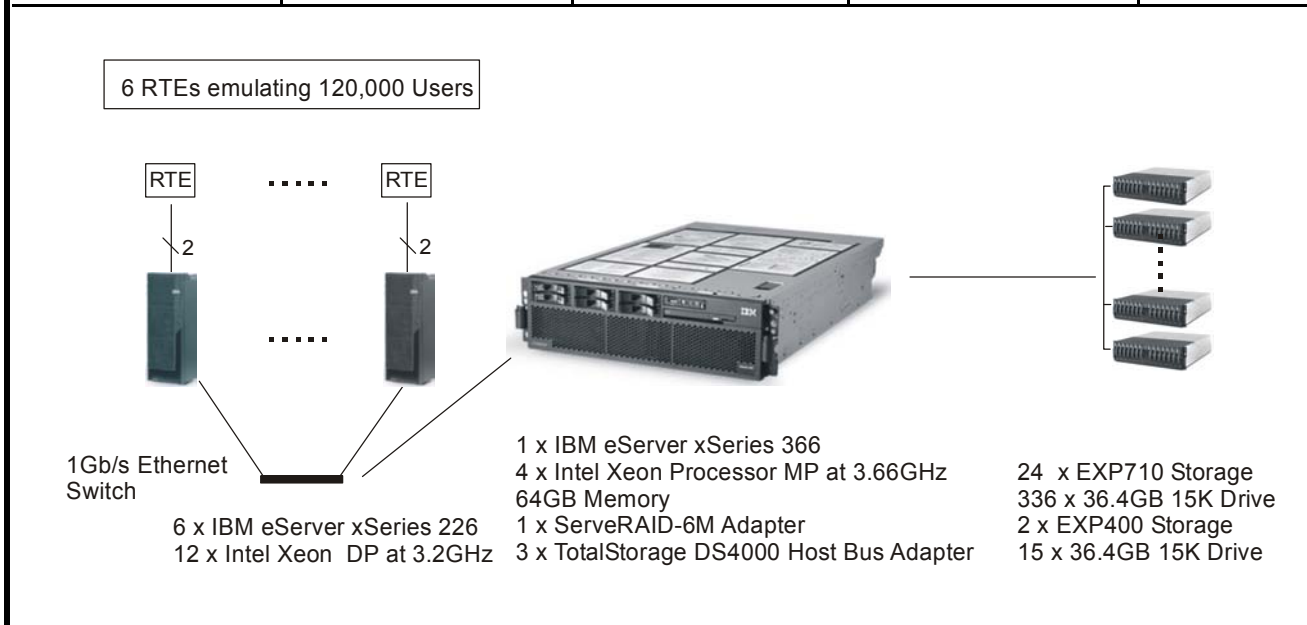


**IBM® eServer® xSeries® 366c/s
and
DB2® UDB 8.2**

TPC-C Rev. 5.3

Report Date: April 21, 2005

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
\$904,617 USD	150,704 tpmC	\$6.00 USD / tpmC	Aug. 20, 2005	
Database Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
4/4/8 64-Bit Intel® Xeon™ Processor MP at 3.66GHz	DB2 UDB 8.2	Microsoft Windows® Server 2003 Enterprise x64 Edition	Microsoft Visual C++ 6.0 Microsoft COM+	120,000



System Component	Qty	Server:	Qty	Each of Six Clients:
Processors/Cores/Threads	4/4/8	Intel Xeon Processor MP at 3.66GHz/1MB L2 Cache	2/2/4	Intel Xeon DP at 3.2GHz 1MB L2 Cache
Cache				
Memory	16	4GB ECC RDIMM	4	512MB
			2	256MB
Disk Controllers	1	ServeRAID-6M Adapter	1	Ultra320 SCSI Interface
Disk Drives	351	36.4GB (15000 rpm)	1	36.4GB (15000 rpm)
Total Storage		11662GB		

IBM Corporation	IBM @server xSeries 366 c/s with DB2 UDB 8.2			TPC-C Revision 5.3 Report Date: April 21, 2005					
	Description	Part Number	Third Party Brand Pricing	Unit Price	Quantity	Extended Price	3-Yr. Maint. Price		
Server Hardware									
xSeries 366 with 1 x 3.66GHz/1MB L2 Cache Intel Xeon Processor MP	8863-2RU	IBM	1	9,999	1	9,999			
xSeries 3.66GHz/1MB L2 Cache Intel Xeon Processor MP	13N0695	IBM	1	1,999	3	5,997			
8GB (2x4GB) PC2-3200 CL3 2RX4 ECC DDR2 SDRAM RDIMM	30R5145	IBM	1	17,879	8	143,032			
Active Memory™ 4-Slot Memory Expansion Card	13M7409	IBM	1	499	3	1,497			
ServeRAID-6M Ultra320 SCSI Adapter	32P0033	IBM	1	999	1	999			
E54 15" (13.8" Viewable) Color Monitor	633147N	IBM	1	139	1	139			
IBM Preferred Pro Full-Size Keyboard PS/2	31P7415	IBM	1	29	1	29			
IBM Sleek 2-Button Mouse	28L3673	IBM	1	15	1	15			
ServicePac for 3-Year 24x7x4 Support (x366)	96P2253	IBM	1	900	1		900		
ServicePac for 3-Year 24x7x4 Support (Monitor)	30L9183	IBM	1	90	1		90		
Discount on xSeries Hardware (15%)						24,256			
Discount on ServicePacs (20%)							198		
					Subtotal	137,451	792		
Server Storage									
IBM TotalStorage DS4000 Host Bus Adapter	24P0960	IBM	1	1,485	3	4,455			
IBM TotalStorage DS4500 Disk Subsystem	174290U	IBM	1	66,500	3	199,500			
IBM DS4000 Mini Hub	19K1269	IBM	1	899	6	5,394			
IBM Short Wave SFP Module	19K1271	IBM	1	499	103	51,397			
IBM 1m LC-LC Fibre Channel Cable	19K1247	IBM	1	79	48	3,792			
IBM 5m LC-LC Fibre Channel Cable	19K1248	IBM	1	129	9	1,161			
IBM TotalStorage DS4000 EXP710 Storage Exp. Unit	1740710	IBM	1	6,000	24	144,000			
IBM TotalStorage SAN Fibre Channel Switch Model H16	2005H16	IBM	1	11,755	1	11,755			
2Gbps FC 36.4GB 15K Hot-Swap HDD	06P5772	IBM	1	1,115	336	374,640			
IBM EXP400 Rack Storage Exp. Enclosure	17331RU	IBM	1	3,099	2	6,198			
36.4GB 15K Ultra320 SCSI Drive	90P1318	IBM	1	349	15	5,235			
Netfinity 4.2M Ultra2 SCSI Cable	03K9310	IBM	1	75	2	150			
IBM UPS 750TLV	21301TX	IBM	1	299	1	299			
IBM S2 42U Standard Rack	93074SX	IBM	1	1,489	3	4,467			
ServicePac for 3-Year 24x7x4 Support (EXP710)	41L2768	IBM	1	760	24		18,240		
ServicePac for 3-Year 24x7x4 Support (DS4500)	96P2062	IBM	1	1,087	3		3,261		
ServicePac for 3-Year 24x7x4 Support (EXP400)	41L2768	IBM	1	760	2		1,520		
ServicePac for 3-Year 24x7x4 Support (Rack)	41L2760	IBM	1	300	3		900		
ServicePac for 3-Year 24x7x4 Support (Switch)	29R5130	IBM	1	2,460	1		2,460		
Discount on Fibre Channel Disks (30%)						112,392			
Discount on Fibre Channel Storage (20%)						84,291			
Discount on xSeries Storage (15%)						2,452			
Discount on ServicePacs (20%)							5,276		
					Subtotal	613,308	21,105		
Server Software									
DB2 UDB ESE 8.2 for Windows Operating Systems on 64-Bit Extended Systems - SW License and Maintenance 12 Months		IBM	1	22,608	4	90,432			
SW Maintenance Renewal - 1 Year		IBM	1	1,077	8		8,616		
Microsoft Windows Server 2003 Enterprise x64 Edition*	P72-00264	Microsoft	2	2,399	1	2,399			
Microsoft Problem Resolution Services		Microsoft	2	245	1		245		
					Subtotal	92,831	8,861		
Client Hardware									
x226 with 3.2GHz/1MB Xeon DP, 512MB (2x256MB) Memory	8648-2AU	IBM	1	1,515	6	9,090			
3.2GHz/1MB Xeon DP Processor Upgrade	13N0673	IBM	1	799	6	4,794			
1GB (2x512MB) PC-3200 DDR2 ECC SDRAM RDIMM	73P3522	IBM	1	399	12	4,788			
36.4GB 15K Ultra320 SCSI Drive	90P1318	IBM	1	349	6	2,094			
PRO/1000 MT Dual-Port Server Adapter	73P2701	Intel	1	249	18	4,482			
E54 15" (13.8" Viewable) Color Monitor	633147N	IBM	1	139	6	834			
ServicePac for 3-Year 24x7x4 Support (x226)	96P2250	IBM	1	586	6		3,516		
ServicePac for 3-Year 24x7x4 Support (Monitor)	30L9183	IBM	1	90	6		540		
Discount on xSeries Hardware (15%)						3,912			
Discount on ServicePacs (20%)							811		
					Subtotal	22,170	3,245		
Client Software									
Microsoft Windows 2000 Server with COM**	C11-00821	Microsoft	2	738	6	4,428			
Microsoft Visual C++ Professional 6.0	254-00170	Microsoft	2	109	1	109			
					Subtotal	4,537			
Network Components									
NETGEAR 8-Port Gigabit Ethernet Switch	GS108		3	100	3	300			
14ft Ethernet Cable (including 2 spares)			3	2	9	18			
					Subtotal	318			
					Total	870,615	34,003		
Pricing: 1- IBM - To order, call 1-888-SHOP-IBM, and ask for xSeries Sales. Volume discounts based on IBM Direct Guidance (Call 1-919-486-0818 for price verification.) 1 - IBM DB2: Bernard Spang, Director Database Market Management, spang@us.ibm.com, 914-766-1491 2 - Microsoft (*See Quote for Discounts); 3 - www.newegg.com Audited by Bradley J. Askins of InfoSizing, Inc.				Three-Year Cost of Ownership USD: \$904,617				tpmC: 150,704 \$ USD/tpmC: \$6.00	
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.									

Numerical Quantities Summary			
MQTh, Computed Maximum Qualified Throughput: 150,704 tpmC			
Response Times (in seconds)	90th Percentile	Average	Maximum
New-Order	0.30	0.20	1.58
Payment	0.40	0.30	3.45
Delivery	0.30	0.29	1.06
Stock Level	0.64	0.41	1.94
Order Status	0.30	0.23	1.72
Delivery (Deferred)	0.58	0.33	3.53
Menu	0.29	0.20	1.16
Response Time Delay Added for Emulated Components: 0.1 Seconds			
Transaction Mix (in percent of total transactions)			Percent
New-Order			44.94
Payment			43.03
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	18.00 / 120.31
Payment	3.00 / 0.00	3.00 / 12.04	3.02 / 120.31
Delivery	2.00 / 0.00	2.00 / 5.04	2.00 / 50.31
Stock Level	2.00 / 0.00	2.00 / 5.04	2.00 / 50.31
Order Status	2.00 / 0.00	2.00 / 10.03	2.00 / 100.31
Test Duration			
Ramp-up time			42 minutes 30 seconds
Measurement interval			120 minutes
Number of checkpoints			NA
Checkpoint interval			NA
Number of transactions (all types) completed in measurement interval			40,239,816