

IBM Corporation	IBM Power 550 Express			TPC-C Rev. 5.10		
	Sybase ASE 15.0.3			Report Date: June 16, 2008		
Server Hardware	Part Number	Price Source	Unit Price	Qty	Ext. Price	3 -Yr. Maint
IBM Power 550 Express	8204-E8A5	1	5,509	1	5,509	
Op Panel Cable for Rack-mount Drawer w/3.5 DASD	1877	1	6	1	6	
73.4GB 15K RPM SAS Disk Drive	3646	1	498	2	996	
16384MB (2x8192MB) RDIMMs, 400 MHz, 1Gb Stacked DRAM	4524	1	19,661	8	157,288	
2-core 4.2 GHz POWER6 Processor Card	4966	1	16,092	2	32,184	
One Processor Activation for Processor Feature #4966	4986	1	7,573	2	15,146	
Dual-Port 1Gb Integrated Virtual Ethernet Daughter Card	5623	1	301	1	301	
IDE Slimline DVD-ROM Drive	5756	1	208	1	208	
4 Gb Dual-Port Fibre Channel PCI-X 2.0 DDR	5759	1	2,499	2	4,998	
2-Port 10/100/1000 Base-TX Ethernet PCI Express Adapter	5767	1	528	1	528	
4 Gigabit PCI Express Dual Port Fibre Channel Adapter	5774	1	2,499	2	4,998	
Power Cable -- Drawer to IBM PDU, 14-foot	6458	1	14	1	14	
IBM/OEM Rack-Mount Drawer Rail Kit	7146	1	300	1	300	
IBM Rack-mount Drawer Bezel and Hardware	7360	1	450	1	450	
Power Supply, 1700 Watt AC, Hot-swap, Base	7707	1	699	1	699	
DASD/Media Backplane for 3.5 DASD/DVD/Tape	8341	1	340	1	340	
Deskside Hardware Management Console	7042-C06	1	1,830	1	1,830	
T117 Color Display	3645	1	875	1	875	
IBM Quiet Touch USB Keyboard	5951	1	104	1	104	
24x7x4 3 Year Maintenance		1				7540
				Subtotal	226,774	7,540
Server Storage						
IBM System Storage EXP3000	1727-HC1	1	3,199	30	95,970	
IBM 1M SAS cable	39R6529	1	119	60	7,140	
IBM DS3000 Environmental Services Module (ESM)	39R6515	1	999	30	29,970	
IBM System Storage DS3400 Express	1726-42E	1	6,702	11	73,722	
IBM Hot-Swap 3.5 inch 73.4GB 15K SAS HDD	43W7523	1	329	488	160,552	
IBM TotalStorage SAN16B-2 Express Model	200516B	1	4,120	2	8,240	
16B Four Port Activation	22R4901	1	1,670	4	6,680	
IBM S2 42U Standard Rack	93074RX	1	1,489	2	2,978	
DS3000 Linux on Power Host License	44W2101	1	1,000	11	11,000	
ServicePac for 3-Year 24x7x4 Support (DS3400)	44J8073	1	1,300	11		14,300
ServicePac for 3-Year 24x7x4 Support (EXP3000)	41L2768	1	760	30		22,800
ServicePac for 3-Year 24x7x4 Support (Rack)	41L2760	1	300	2		600
				Subtotal	396,252	37,700
Server Software						
Sybase ASE 15.0.3 Server	14023	2	2,995	1	2,995	
Sybase ASE 15.0.3 Seats		2	595	80	47,600	
SyBase 3 year support		2	11,139	3		33,417
Red Hat Enterprise Linux, Premium Subscription		3	3,702	1	3,702	
				Subtotal	54,297	33,417
Client Hardware						
IBM System x3250 (Quad-Core Intel Xeon x3210 2.13GHz, (2x512MB RAM)	43658BU	1	1,915	8	15,320	
73.4GB 15K SAS Hot-Swap Drive	40K1043	1	309	8	2,472	
ServicePac for 3-Year 24x7x4 Support (x3250)	96P2250	1	586	8		4,688
				Subtotal	17,792	4,688
Third Party Hardware/Software						
Microsoft Windows Server 2003 Web Edition with COM+	P70-00275	4	400	8	3,200	
Visual Studio Standard 2005	127-00012	5	250	1	250	
Microsoft Problem Resolution Services		5	245	1		245
D-LINK DGS-1024D 24-Port 10/100/1000 Switch (2 spares)	DGS1024D	6	185	3	555	
UPS - powercom KIN-1500AP 1500VA 900Watts Item # N82E16842106115		7	135	3	405	
				Subtotal	4,410	245
				Total	699,525	83,590
				Total IBM Discount *		-\$161,293
				Sybase 10% Discount		-\$8,401
				Three-Year Cost of Ownership USD:		\$613,421
Pricing Sources: 1) IBM 2) Sybase 3) Redhat 4) cdw.com 5) Microsoft 6) compuplus.com 7) newegg.com				tpmC:		276,383
				\$ USD/tpmC:		\$2.22
* Discounts are based on US list prices for similar quantities & configurations including pre-payment for maintenance. The discount of 23.4% applies to the totality of all items with prices source "1".						
Audited by: Francois Raab Info Sizing (www.infosizing.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. Thank you.						

Numerical Quantities Summary for the IBM Power 550

MQTH, computed Maximum Qualified Throughput: 276,383 tpmC

<u>Response Times (in seconds)</u>	<u>90th %</u>	<u>Average</u>	<u>Maximum</u>
New Order	0.700	0.346	6.000
Payment	0.680	0.330	5.078
Order-Status	0.740	0.394	6.094
Delivery (interactive)	0.120	0.118	4.172
Delivery (deferred)	1.93	0.84	4.53
Stock-Level	0.720	0.366	4.313
Menu	0.111	0.117	5.156

Response time delay added for emulated components was 0.1 seconds

<u>Transaction Mix, in percent of total transactions</u>	<u>Percent</u>
New Order	44.979%
Payment	43.000%
Order-Status	4.007%
Delivery	4.006%
Stock-Level	4.007%

<u>Keying/Think Times (in seconds)</u>	<u>Min.</u>	<u>Average</u>	<u>Max.</u>
New Order	18.00/0.00	18.00/12.035	18.016/120.313
Payment	3.00/0.00	3.00/12.035	3.016/120.313
Order-Status	2.00/0.00	2.00/10.035	2.016/100.313
Delivery	2.00/0.00	2.00/5.036	2.00/50.313
Stock-Level	2.00/0.00	2.00/5.036	2.00/50.313

Test Duration

Ramp-up Time	1 hour 36 minutes
Measurement interval	2 hours 28 minutes
Transactions during measurement interval (all types)	90,940,891

Checkpoints

Number of checkpoints	4
Checkpoint interval	29:50