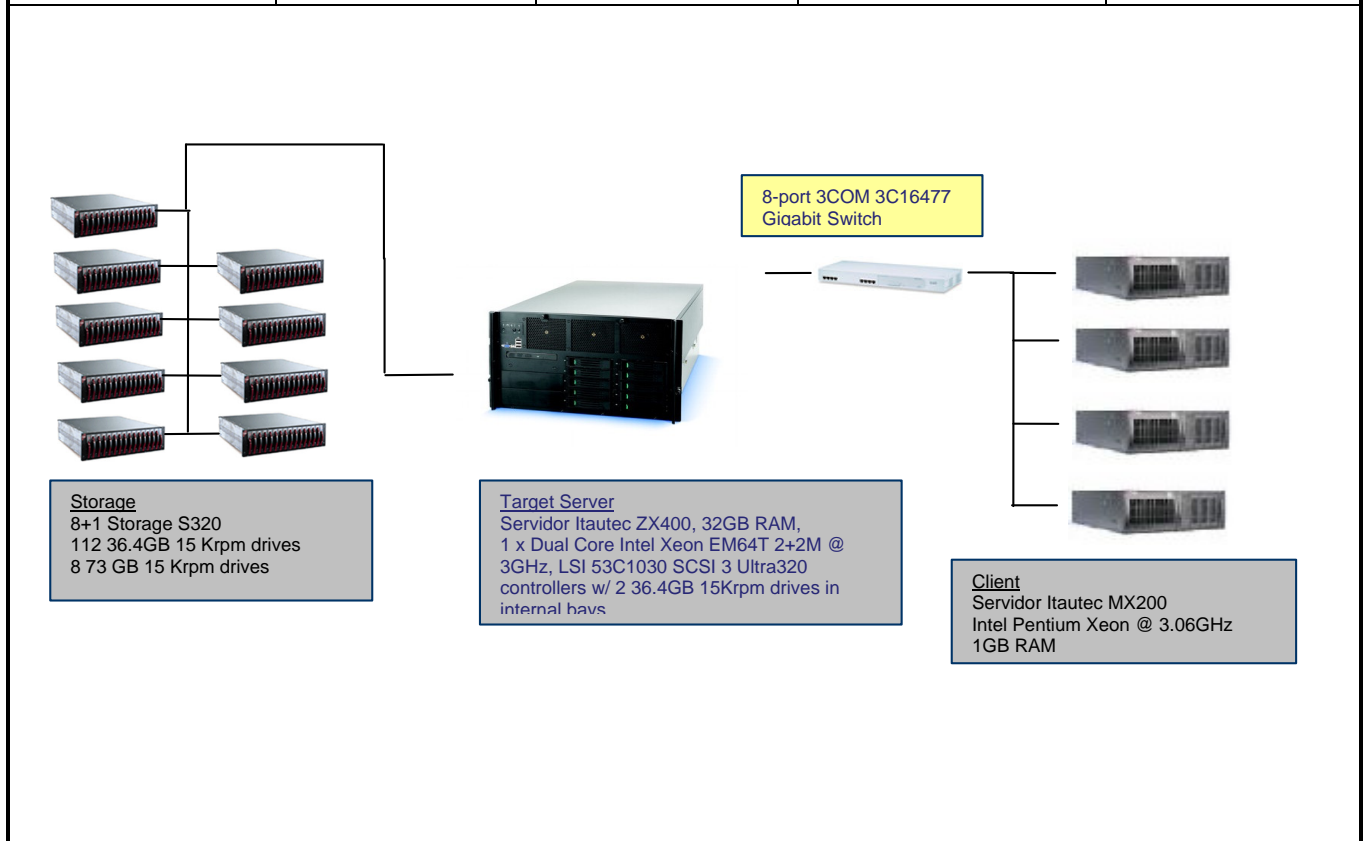


	Servidor Itautec ZX400 1P C/S with Servidor Itautec MX200 1P	TPC-C Rev. 5.6
		Report Date: 04/12/2006

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
R\$ 675,661 BRL	57,552	R\$ BRL / tpmC: 11.74	04/12/2006	
Processors	Database Manager	Operating System	Other Software	Number of Users
1 Intel Xeon EM64T, 2 Cores, 4 Threads @ 3GHz - Server 1 Intel Xeon EM64T 3.06 GHz - Client	Microsoft SQL Server 2005 Standard Edition	Windows Server 2003 Enterprise Edition	Microsoft Visual C++ Microsoft COM+	46,000



System Components	Server		Each Client	
	Quantity	Description	Quantity	Description
Processor/ Cores/Threads	1/2/4	3.0 GHz Intel Xeon EM64T 2+2M w/ 2 MB cache / 800 MHz FSB	1/1/2	3.06 GHz Intel Xeon EM64T w/1MB cache
Memory	16	2GB Register DDR2 @ 400MHz	2	512 MB Register ECC DDR DIMM @ 266 MHz
Disk Controllers	4 1	LSI Logic MegaRAID SCSI 320-2E LSI Logic MegaRAID SCSI 320-2X	1	Intel® 82801EB I/O Controller Hub 5
Disk Drives	114 8	36.4 GB SCSI Drive 15 Krpm 73 GB SCSI Drive 15Krpm	1	80 GB 7200 SATA Drive
Total Storage		4733.6 GB		80 GB

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput

57,552 tpmC

Response Times (in seconds)

	Average	90 th	Max
New Order	0.39	0.63	5.40
Payment	0.35	0.59	4.53
Order Status	0.37	0.61	5.40
Delivery (interactive)	0.11	0.11	1.76
Delivery (deferred)	0.25	0.40	1.08
Stock Level	0.59	0.92	2.60
Menu	0.11	0.11	1.76

Response time delay added for emulated components

Menu 0.1
Resp. 0.1

Transaction Mix, in percent of total transactions

New Order	44.93%
Payment	43.02%
Order-Status	4.01%
Delivery	4.02%
Stock-Level	4.02%

Keying/Think Times (in seconds)

	Min		Average		Max	
New Order	18.02	0.00	18.03	12.07	18.07	120.54
Payment	3.02	0.00	3.03	12.06	3.07	120.54
Delivery	2.02	0.00	2.03	5.06	2.07	50.52
Stock Level	2.02	0.00	2.03	5.07	2.07	50.52
Order Status	2.02	0.00	2.03	10.06	2.06	100.53

Test Duration

Ramp-up time	19 minutes
Measurement interval	120 minutes
Number of checkpoints	4
Checkpoint interval	30 minutes
Number of transactions (all types) completed in measurement interval	15.988.092

**Itaotec****Servidor Itaotec ZX400 1P**

TPC-C Rev. 5.6

Report Date: Apr 04, 2006

Description	Part Number	Third Party Brand Pricing	Unit Price R\$	Quantity	Extended Price	3 yr. Maint. Price
Server Hardware						
Servidor Itaotec ZX400 1P						
Base System with 1 x Xeon MP 3.0 GHz/2x2MB 667	C18GX	Itaotec 1	123,966	1	123,966	-
2 GB DDR2-400 SDRAM	I2393	Itaotec 1	-	16	-	-
36 GB Ultra320 15Krpm HDD	Included	Itaotec 1	-	2	-	-
On-Board LAN Broadcom NetXtreme 1000Gbps	Included	Itaotec 1	-	2	-	-
CD-ROM, Internal SCSI Adapter	Included	Itaotec 1	-	1	-	-
Upgrade to 3-year / 4-hour response / 7days - 24hrs	2106_05	Itaotec 1	12,345	1	-	12,345
Monitor 15" Sync Master 591S	I1555	Itaotec 1	330	1	330	-
UPS SMART APC 1	F2643	Itaotec 1	1,621	1	1,621	-
				Subtotal	125,917	12,345
Disk Subsystem						
SCSI RAID Controller U320 2-channel PCI-E	I1710	Itaotec 1	4,110	4	16,440	-
SCSI RAID Controller U320 2-channel PCI-X	G7622	Itaotec 1	3,810	1	3,810	-
36 GB Ultra320 15K rpm	F6853	Itaotec 1	2,420	112	271,040	-
73 GB Ultra320 15K rpm	F4641	Itaotec 1	3,453	8	27,624	-
36 GB Ultra320 15K rpm (10% spare)	F6853	Itaotec 1	2,420	12	-	29,040
73 GB Ultra320 15K rpm (10% spare)	F4641	Itaotec 1	3,453	2	-	6,906
Storage Itaotec S320	F1390	Itaotec 1	20,321	9	182,892	-
Kit Rack for Storage	F1781	Itaotec 1	345	9	3,105	-
Rack Itaotec F2400	F2400	Itaotec 1	5,281	3	15,843	-
				Subtotal	520,754	35,946
Server Software						
Microsoft Windows 2003 Server Enterprise Edition x86	P72-00981	Microsoft 1	-	1	-	-
SQL Server 2005 Standard Edition 32 bits	81852	Microsoft 1	4,115	1	4,115	-
				Subtotal	4,115	-
Client Hardware						
Servidor Itaotec MX-200						
Base System with 1 x Xeon EM64T 3.06GHz/1MB	C0V4F	Itaotec 1	8,657	4	34,628	-
2 x 512MB Memory	Included	Itaotec 1	-	4	-	-
1 x 80GB SATA 7200rpm	Included	Itaotec 1	-	4	-	-
2 x Intel Pro/1000 Server Adapter	Included	Itaotec 1	-	4	-	-
CD-ROM, On-Board LAN	Included	Itaotec 1	-	4	-	-
Upgrade to 3-year / 4-hour response / 7days - 24hrs	001839	Itaotec 1	467	4	-	1,868
Monitor 15" SYNC MASTER 551S	E9801	Itaotec 1	404	4	1,616	-
				Subtotal	36,244	1,868
Client Software						
Microsoft Windows 2003 Server Standard Edition 32 bits	H0085	Microsoft 1	3,376	4	13,504	-
Visual C++ .NET Standard	254-00257	Microsoft 1	336	1	336	-
				Subtotal	13,840	-
Network components						
Switch 16P Baseline 10/100/1000	G9949	Itaotec 1	2,100	2	4,200	-
Switch 16P Baseline 10/100/1000 (spares)	G9949	Itaotec 1	2,100	2	4,200	-
				Subtotal	4,200	-
				TOTAL	705,070	50,159
Large volume purchase with cash in advance Discount on Itaotec Hardware (11.58%)					79,568	
				TOTAL	625,502	50,159
Pricing: 1 - Itaotec				3-Yr. Cost of Ownership:	R\$ 675,661 BRL	
				tpmC Rating:	57,552	
				R\$ / tpmC:	11.74	
Audited By Lorna Livingtree of Performance Metrics Inc.						

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 the stated prices are not available according to these items, please inform the TPC at pricing@tpc.org.