

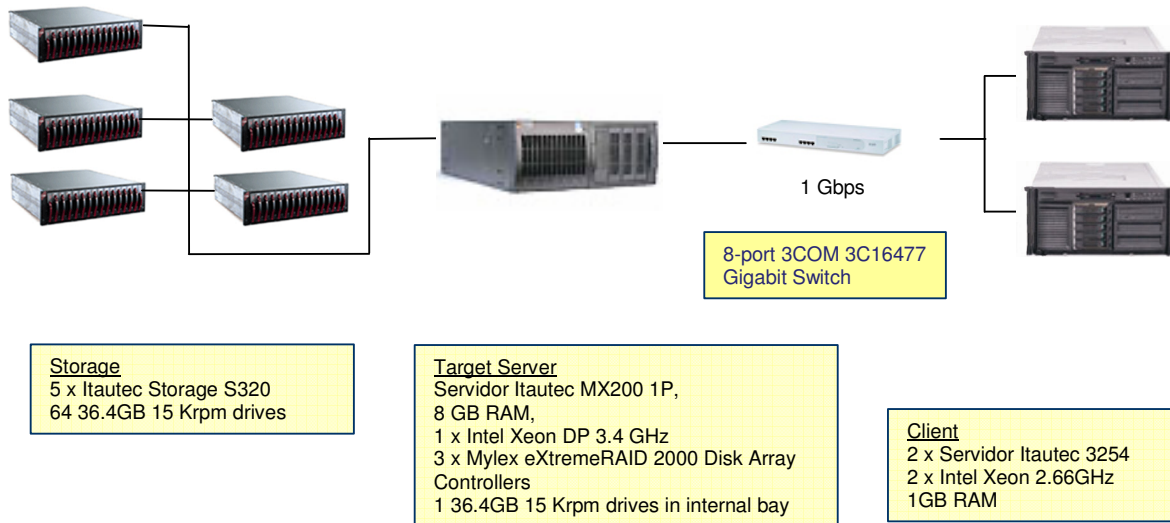


**Servidor Itautec MX200 1P
C/S with Servidor Itautec
3254**

TPC-C Rev. 5.4

Report Date: 06/28/2005

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
R\$ 465.154 BRL	31,253	R\$ 14,88 BRL	06/28/2005
Processors	Database Manager	Operating System	Other Software
1 Intel Xeon DP 3.4 GHz – Server 2 Intel Xeon 2.66 GHz – Client	Microsoft SQL Server 2000 Enterprise Edition SP3	Windows Server 2003 Enterprise Edition	Microsoft Visual C++ Microsoft COM+
Number of Users			
25,000			



System Components	Server		Each Client	
	Quantity	Description	Quantity	Description
Processor	1	3.4 GHz Intel Xeon DP w/ 2 MB cache / 533 MHz frontside BUS	2	2.66 GHz Xeon w/ 512 KB cache / 533 MHz frontside BUS
Memory	8	1 GB Register DDR ECC 266MHz	2	512 MB Register SDRAM ECC DIMM
Disk Controllers	3	Mylex eXtremeRAID 2000	1	Adaptec AIC-7899 Ultra2
Disk Drives	1	36.4 GB SCSI Drive 15 Krpm	1	36.4 GB 10Krpm SCSI Drive
	64	36.4 GB SCSI Drive 15 Krpm		
Total Storage	2366 GB		36.4 GB	
Tape Drives	1	20/40 GB DAT		

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput

31,253 tpmC

Response Times (in seconds)

	Average	90 th	Max
New Order	0.43	0.68	5.27
Payment	0.26	0.46	4.92
Order Status	0.37	0.60	5.27
Delivery (interactive)	0.10	0.11	0.98
Delivery (deferred)	0.50	0.96	2.77
Stock Level	2.31	3.41	9.75
Menu	0.10	0.11	1.41

Response time delay added for emulated components

Menu 0.1
Resp. 0.1

Transaction Mix, in percent of total transactions


New-Order	44.94%
Payment	43.03%
Order-Status	4.01%
Delivery	4.01%
Stock-Level	4.01%

Keying/Think Times (in seconds)

	Min		Average		Max	
New Order	18.00	0.00	18.01	12.06	18.04	120.51
Payment	3.00	0.00	3.01	12.04	3.04	120.51
Delivery	2.00	0.00	2.01	5.06	2.03	50.50
Stock Level	2.00	0.00	2.01	5.06	2.03	50.50
Order Status	2.00	0.00	2.01	10.06	2.04	100.50

Test Duration

Ramp-up time	43 minutes
Measurement interval	120 minutes
Number of checkpoints	4
Checkpoint interval	30 minutes
Number of transactions (all types) completed in measurement interval	8,680,122

 Itautec Philco	Servidor Itautec MX200 1P			TPC-C Rev. 5.4		
				Report Date: June 28, 2005		
Description	Part Number	Third Party Brand	Unit Price Pricing R\$	Quantity	Extended Price	3 yr. Maint. Price
Server Hardware						
Servidor Itautec 3040 MX200 1P						
Base System with 1 x Xeon (nocona) DP 3.4Ghz/2M	C03SY	Itautec	1	11.130	1	11.130
1 GB MEM REGSDECCDDR2 400 1GBLPN(SB)	H4489	Itautec	1	1.809	8	14.471
36GB Ultra320 15K rpm	F4637	Itautec	1	2.209	1	2.209
On-Board Intel PRO1000XT LAN	Included	Itautec	1	-	1	-
On-Board Intel PRO100+ LAN	Included	Itautec	1	-	1	-
CD-ROM, Internal SCSI Adapter	Included	Itautec	1	-	1	-
Upgrade to 3-year / 4-hour response / 7days - 24hrs	2106_05	Itautec	1	451	1	451
Monitor 15" SYNC MASTER 551S	E9801	Itautec	1	410	1	410
UPS SMART APC 1	92759	Itautec	1	3.469	1	3.469
					Subtotal	31.689
						451
Disk Subsystem						
Extreme RAID 2000 4 Channel Controller	A4805	Itautec	1	10.323	3	30.969
Itautec Storage Ultrab SC2100CTR-AC	F1390	Itautec	1	20.283	5	101.415
36GB Ultra320 15K rpm	F6853	Itautec	1	2.728	64	174.592
36GB Ultra320 15K rpm (10% spare)	F6853	Itautec	1	2.728	7	-
EXT SCSI Cable Eurou VHDCI68P	E8158	Itautec	1	692	5	3.460
Kit Rack for Storage	F1781	Itautec	1	345	5	1.725
Rack Itautec F2400	F2400	Itautec	1	5.281	1	5.281
					Subtotal	317.442
						19.096
Server Software						
Microsoft Windows 2003 Enterprise Edition	G1178	Microsoft	1	15.067	1	15.067
SQL SVR 2000 ENT/1 PROCES LICENSE CD ING	H0138	Microsoft	1	75.355	1	75.355
					Subtotal	90.422
						-
Client Hardware						
Servidor Itautec 3254						
Base System with 1 x Xeon DP 2,66GHz	B7PLV	Itautec	1	13.747	2	27.495
1 x Xeon 2,66Ghz BTO Option	F8273	Itautec	1	1.821	2	3.642
2 x 512MB Memory	F9283	Itautec	1	680	2	1.360
1 x 36GB 10K rpm	F3656	Itautec	1	810	2	1.620
Intel 1000 Base TX Ethernet Controller	Included	Itautec	1	-	2	-
CD-ROM, On-Board LAN	Included	Itautec	1	-	2	-
Upgrade to 3-year / 4-hour response / 7days - 24hrs	2803_04	Itautec	1	532	2	-
Monitor 15" SYNC MASTER 551S	E9801	Itautec	1	410	2	820
					Subtotal	34.936
						1.063
Client Software						
Microsoft Windows 2000 Server	C11-00821	Microsoft	1	3.956	2	7.911
Visual C++ .NET 2003 CD Ing	254-00170	Microsoft	1	423	1	423
					Subtotal	8.334
						-
Network components						
SWITCH 8P BASELINE 10/100/1000	3C16477-ME	Itautec	1	2.148	1	2.148
SWITCH 8P BASELINE 10/100/1000 (2 spares)	3C16477-ME	Itautec	1	2.148	2	-
					Subtotal	2.148
						4.296
					TOTAL	484.971
Large volume purchase with cash in advance Discount on Itautec Hardware (11.58%)						44.724
					TOTAL	440.247
						24.906
Pricing: 1 - Itautec					3-Yr. Cost of Ownership: R\$ 465.154 BRL	
					tpmC Rating: 31253	
					R\$ / tpmC: R\$ 14,88 BRL	
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.