



**Servidor Itautec 3254 1P C/S
with Servidor Itautec 3040HU**

TPC-C Rev. 5.2

Report Date: 05/10/2004

Total System Cost		TPC-C Throughput		Price/Performance		Availability Date	
R\$ 393.899,26		21,197		R\$ 18,58		05/10/2004	
Processors	Database Manager	Operating System	Other Software	Number of Users			
1 Intel Xeon DP Processor 3.06GHz – Server 2 Intel Pentium III Xeon Processor 1.0 GHz - Client	Microsoft SQL Server 2000 Enterprise Edition SP3	Windows Server 2003 Standard Edition	Microsoft Visual C++ .NET Microsoft COM+	17,000			



Storage
4 x Itautec Storage S320
56 36.4GB 15 Krpm drives

Target Server
Servidor Itautec 3254 1P, 4 GB RAM,
1 x Intel Xeon DP 3.06Ghz
3 x Mylex eXtremeRAID 2000 Disk Array
Controllers
5 36.4GB 15 Krpm drive in internal bay

Client
1 x Servidor Itautec 3040HU
2 x Intel Pentium III Xeon 1Ghz
1GB RAM

System Components	Server		Each Client	
	Quantity	Description	Quantity	Description
Processor	1	3.06 GHz Intel Xeon DP w/ 512 KB cache / 533 MHz frontside BUS	2	1.0 GHz Pentium III Xeon w/ 256 KB cache / 133 MHz frontside BUS
Memory	2	2GB Register DDR ECC 266MHz	2	512 MB Register SDRAM ECC DIMM
Disk Controllers	3	Mylex eXtremeRAID 2000	1	Adaptec AIC-7899 Ultra2
Disk Drives	61	36.4 GB SCSI Drive 15 Krpm	1	18.2 GB 10Krpm SCSI Drive
Total Storage	2220 GB		18.2 GB	
Tape Drives	1	20/40 GB DAT		

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput

21,197 tpmC

Response Times (in seconds)

	Average	90 th	Max
New Order	0.46	0.72	5.78
Payment	0.25	0.43	5.11
Delivery	0.11	0.12	0.98
Stock Level	3.11	4.37	9.87
Order Status	0.34	0.55	4.98
Delivery (def)	0.68	1.15	2.28
Menu	0.11	0.12	3.18

Response time delay added for emulated components

Menu 0.1

Resp. 0.1

Transaction Mix, in percent of total transactions


New-Order	44.95%
Payment	43.02%
Delivery	4.01%
Stock Level	4.01%
Order Status	4.01%

Keying/Think Times (in seconds)

	Min		Average		Max	
New Order	18.00	0.00	18.01	12.07	18.04	120.71
Payment	3.00	0.00	3.01	12.07	3.04	120.71
Delivery	2.00	0.00	2.01	5.09	2.04	50.71
Stock Level	2.00	0.00	2.01	5.08	2.04	50.71
Order Status	2.00	0.00	2.01	10.09	2.04	100.70

Test Duration

Ramp-up time	24 minutes
Measurement interval	120 minutes
Number of checkpoints	4
Checkpoint interval	30 minutes
Number of transactions (all types) completed in measurement interval	5,885,130

 Itautec Philco		Servidor Itautec 3254 1P			TPC-C Rev. 5.2		
					Report Date: May 10, 2004		
Description	Part Number	Third Party		Unit Price R\$	Quantity	Extended Price	3 yr. Maint. Price
		Brand	Pricing				
Server Hardware							
Servidor Itautec 3254 1P							
Base System with 1 x Xeon DP 3.06Ghz/512KB	B5WVD	Itautec	1	15.650	1	15.650	-
2 GB DDR200 PC1600 ECC Reg memory	F1563	Itautec	1	7.242	2	14.484	-
36 GB 15K HDD	F4637	Itautec	1	1.932	5	9.660	-
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	1994/2003_02	Itautec	1	-	1	-	12.563
Monitor 15" SYNC MASTER 551S	E9801	Itautec	1	410	1	410	-
UPS SMART APC 1	92759	Itautec	1	3.469	1	3.469	-
Subtotal						43.673	12.563
Disk Subsystem							
Extreme RAID 2000 4 Channel Controller	A4805	Itautec	1	7.798	3	23.393	-
Itautec Storage Ultrab SC2100CTR-AC	F1390	Itautec	1	21.902	4	87.607	-
36GB Ultra320 15K rpm	F6853	Itautec	1	2.613	56	146.300	-
36GB Ultra320 15K rpm (10% spare)	F6853	Itautec	1	2.613	6	15.675	-
EXT SCSI Cable Euro VHDCl68P	E8158	Itautec	1	747	4	2.986	-
Kit Rack for Storage	F1781	Itautec	1	775	4	3.101	-
Rack Itautec F2400	F2400	Itautec	1	5.175	1	5.175	-
Subtotal						284.238	-
Server Software							
Microsoft Windows 2003 Standard Edition	P72-00264	Microsoft	1	3.648	1	3.648	-
SQL SVR 2000 ENT/1 PROCES LICENSE CD ING	H0138	Microsoft	1	70.557	1	69.975	-
Subtotal						73.623	-
Client Hardware							
Servidor Itautec 3040HU							
Base System with 1 x Pentium III 1Ghz/256KB	B4G6Q	Itautec	1	6.729	1	6.729	-
1 x Pentium III 1GHZ/256KB BTO Option	A9347	Itautec	1	1.415	1	1.415	-
2 x 512MB Memory	F0251	Itautec	1	1.344	1	1.344	-
1 x 18GB 10K rpm	F0555	Itautec	1	641	1	641	-
Intel Pro/1000 T Server Adapter	F3608	Itautec	1	1.912	1	1.912	-
CD-ROM, On-Board LAN	Included	Itautec	1	-	1	-	-
Upgrade to 3-year / 4-hour response / 7days - 24hrs	1994/2003	Itautec	1	-	1	-	2.726
Monitor 15" SYNC MASTER 551S	E9801	Itautec	1	410	1	410	-
Subtotal						12.451	2.726
Client Software							
Microsoft Windows 2000 Server	C11-00821	Microsoft	1	3.648	1	3.648	-
Visual C++ .NET Standard	254-00170	Microsoft	1	389	1	389	-
Subtotal						4.037	-
Network components							
PATCH CORD CATSE 2,5M	88602	Itautec	1	2	1	2	-
Subtotal						2	-
TOTAL						418.024	15.289
Large volume purchase with cash in advance Discount on Itautec Hardware (11.58%)						39.414	
TOTAL						378.610	15.289
Pricing: 1 - Itautec						3-Yr. Cost of Ownership: R\$	393.899,26
						tpmC Rating:	21197
						R\$ / tpmC:	18,58
Audited By Tom Sawyer 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.