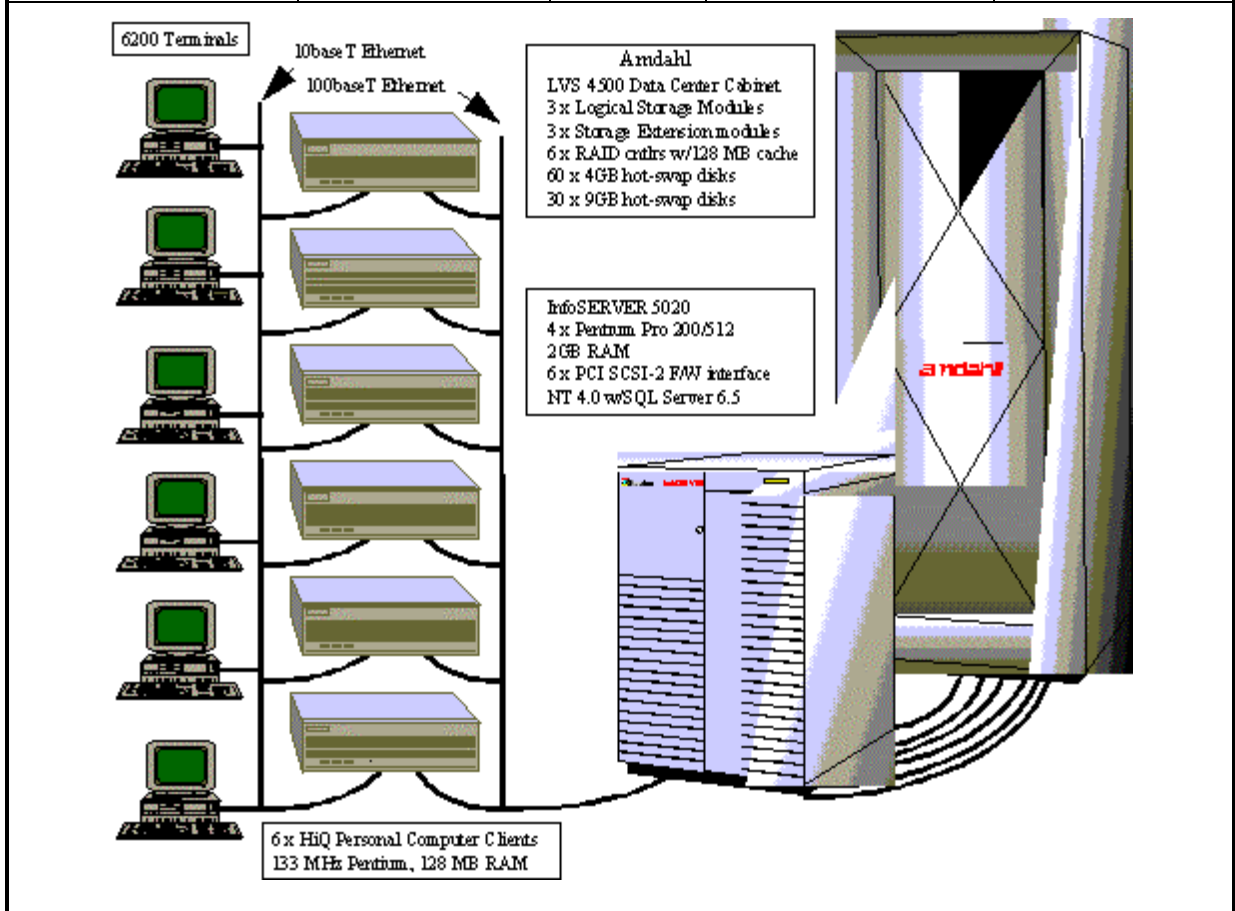


Itautec Philco S A .	InfoSERVER® 5020 (C/S)		TPC-C Rev 3.3
			Report Date: June 30, 1997
Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
R \$ 829 918	7 573 tpm C	109,58 R \$/tpm C	March 31, 1997
Processors	Database Manager	Operating System	Other Software
4 200 MHz Pentium® Pro Processors	Microsoft SQL Server 6.5 SP 3 (246)	Microsoft Windows NT 4.0	Microsoft Internet Information Server Microsoft Visual C++
			Number of Users 6 200



System Component	Server		Clients	
Processors	4	Pentium® Pro Processor 200MHz	1	Pentium® 133MHz
Cache Memory		512KB 2048MB		256KB 128MB
Disk Controllers	7	4 Adaptec 2944UW 1 Adaptec 3944UW 2 Adaptec AIC-7880	1	Adaptec 2940UW
Disk Drives	36	9 GB	1	2 GB
	61	4 GB		
Total Storage	97	568 GB	1	2 GB
Other	1	CD-ROM / Tape Unit	1	CD-ROM

Itautec Phico S.A.		InfoSERVER 5020			TPC-C REV 3.3 EXECUTIVE SUMMARY		
		Client/Server			Report Date: June, 30 1997		
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price	
<b>Server Hardware</b>							
InfoSERVER 5020 D1.4+CD4x+Keyboard+Mouse	81890		RS15.355	1	15.355	4.498	
CPU PPro 200MHz/512KB Upgrade Kit	82337		RS2.297	4	9.188	1.615	
InfoSERVER 5020 CPU Board	82349		RS1.836	1	1.836	323	
128MB SIMM w/Parity Memory Kit	87514		RS1.977	16	31.632	5.559	
Intel EtherExpress PRO 100B PCI	87507		RS173	1	173	41	
SCSI-2 AHA-2944UW Differential Adapter	87508		RS726	4	2.904	680	
SCSI-2 AHA-3944UW Differential Adapter	87509		RS1.134	1	1.134	266	
Monitor 15"	80884		RS479	1	479	159	
SVGA Adapter	78510		RS115	1	115	27	
Tape Backup	86371		RS1.338	1	1.338	235	
4GB hot-swappable disks	84463		RS1.869	1	1.869	328	
9GB hot-swappable disks	85339		RS3.226	6	19.356	3.402	
	SUB-TOTAL				85.379	17.133	
<b>Server Software</b>							
Windows NT Server 4.0 Port CD 5 Client	81607		RS910	1	910	1.380	
Windows NT Client 4.0 MOLP A	81617		RS33	5	165	220	
SQL Server 6.5 Eng Int CD 10 Client	81852		RS2.255	1	2.255	3.673	
SQL Internet Connector 6.5 MLP	87510		RS3.342	1	3.342	0	
Microsoft Software Support (One Year)	82621		RS0	5	0	6.386	
	SUB-TOTAL				6.672	11.659	
<b>Storage</b>							
LVS 4500 Logical Storage Module	4500-001-8120	Amdahl	RS0	3	0	51.840	
288 MB Intelligent Memory	4500-001-7383	Amdahl	RS20.360	3	61.080	0	
Data Center Cabinet	4500-001-7371	Amdahl	RS5.045	1	5.045	0	
Storage Expansion Module	4500-001-7410	Amdahl	RS3.737	3	11.211	12.960	
SCSI Host Interface Cable (10 ft)	4500-001-8432	Amdahl	RS138	6	828	0	
UPS	EXIDE-UPS2D-6450	Amdahl	RS3.987	1	3.987	997	
9 GB hot-swappable Disk Drives (20 count)	4500-001-7989	Amdahl	RS120.833	1	120.833	0	
9 GB hot-swap Extension Disks	4500-001-7944	Amdahl	RS4.448	10	44.480	0	
4 GB hot-swappable Disk Drives (20 count)	4500-001-7405	Amdahl	RS76.659	2	153.318	0	
4 GB hot-swap Extension Disks	4500-001-7444	Amdahl	RS2.321	20	46.420	0	
	SUB-TOTAL				447.202	65.797	
<b>Client Hardware</b>							
1P 133 MHz Pentium		HiQ	RS4.428	8	35.424	8.301	
2 GB disk							
128 MB memory							
PRO 100B 10/100 baseT NIC (2)							
8X CD-ROM							
SVGA Adapter							
Keyboard/mouse/15" monitor							
	SUB-TOTAL				35.424	8.301	
<b>Client Software</b>							
Windows NT Server 4.0 MOLP A	81614		RS695	6	4.170	3.987	
Windows NT Client 4.0 MOLP A	81617		RS33	60	1.980	2.640	
SQL Server Pmgr Toolkit	81608		RS566	1	566	698	
Visual C++ V 4.0	87511		RS566	1	566	698	
	SUB-TOTAL				7.282	8.023	
<b>User Connectivity</b>							
3Com SSII Dual Speed 100/10 Hub 12-port	87128		RS1.371	3	4.113	482	
3Com Entry Hub 24-port	87512		RS416	285	118.560	13.891	
	SUB-TOTAL				122.673	14.373	
	TOTAL				RS704.632	RS125.286	
<b>Notes:</b>							
Price sources: 1=Itautec Phico 2=Amdahl3=HiQ Computer Systems				Five-Year Cost of Ownership: R \$829.918			
Audited by Tom Sawyer and Richard G in arc of Performance Metrics, Inc.				tpm C Rating: 7.573			
				R \$ / tpm C: 109.58			
Values in Real, the official currency in Brazil (symbol = R\$).							
Values following numeric convention in Brazil: a period separates thousands (1,000 = one thousand), a comma separates the decimal fraction (1,000 = one)							
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 terms, please inform the TPC at pricing@tpc.org.							

M Q Th ,computed Maximum Qualified Throughput 7,573.00 tpmC  
 % throughput difference, reported & reproducibility runs 0.4%

Response Times (90th percentile | Average | Maximum) in seconds

- Neworder	1.2	0.7	6.6
- Payment	1.1	0.6	3.5
- Order Status	1.8	1.3	7.2
- Delivery (interactive portion)	0.3	0.3	0.8
- Delivery (deferred portion)	1.4	1.2	14.4
- Stock-Level	3.6	2.4	8.5
- Menu	0.3	0.2	0.9

Response time delay added for menu delay 0.1

Response time delay added for response time delay 0.1

Transaction Mix, in percent of total transactions

- New-Order	44.7 %
- Payment	43.1 %
- Order-Status	4.1 %
- Delivery	4.1 %
- Stock-Level	4.1 %

Keying/Think Times (in seconds),

	Min		Average			Max
- New-Order	18.0	0	18.0	12.1	18.1	120.8
- Payment	3.0	0	3.0	12.1	3.0	120.7
- Order-Status	2.0	0	2.0	10.2	2.0	100.7
- Delivery	2.0	0	2.0	5.1	2.0	50.7
- Stock-Level	2.0	0	2.0	5.1	2.0	44.8

Test Duration

- Ramp-up time	25 minutes
- Measurement interval	30 minutes
- Number of checkpoints	1
- Checkpoint interval	30 minutes
- Number of transactions (all types) completed in measurement interval	508,268

(and all other numerical quantities required in the Full Disclosure Report)