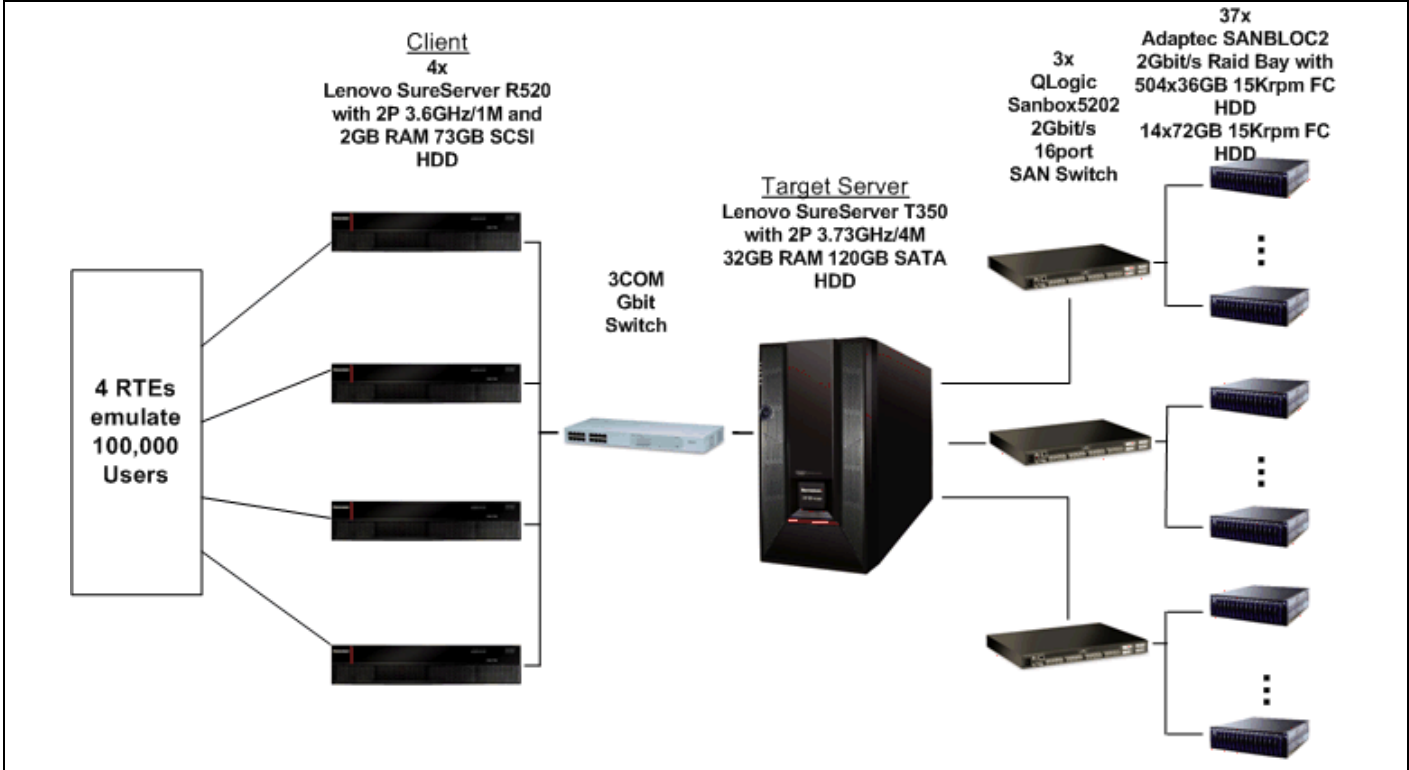



lenovo		SureServer T350 C/S with 4 R520		TPC-C Rev. 5.6	
				Report Date: May 1, 2006	
Total System Cost		TPC-C Throughput	Price/Performance		Availability Date
8,265,969 CNY		125,954	65.63 CNY/tpmC		July 1, 2006
Database Server Processors /Cores/Threads	Database Manager	Operating System	Other Software	Number of Users	
2/4/8 Intel® Xeon® processor 3.73GHz Dual Core (4MB L2 Cache)	Microsoft SQL Server 2005, Enterprise x64 Edition	Microsoft Windows Server 2003, Enterprise X64 Edition, SP1	Microsoft Windows 2003 Standard Edition, SP1 Microsoft Visual C++ Microsoft COM+	100,000	



System Components	Qty	Server	Qty	Each client
Processors/Cores/Threads	2/4/8	Intel® Xeon® Processor 3.73GHz 4MB L2 Cache	2/2/4	Intel® Xeon® Processor 3.6GHz 1MB L2
Memory	8	4GB DDR2 533 FBD	2	1GB DDR2 400
Disk Controllers	2	QLogic QLA2462		
Disk Drives	1	120GB 7200rpm SATA150	1	73GB 10Krpm SCSI
	504	36GB 15Krpm FC		
	14	72GB 15krpm FC		
Total Storage		19272GB		73GB
Others				

		SureServer T350 Client/Server			TPC-C Rev 5.6		
				Report Date: 1-May-2006			
Description	Part Number	Third Party	Unit Price CNY	Qty	Extended Price CNY	3 yr. Maint. Price CNY	
Server Hardware							
Lenovo SureServer T350 2P Xeon DC 3.73GHz 32GB DDR2 533 FBD 1 x 120GB SATA150 7200rpm HDD, keyboard, mouse	61-012654	Lenovo	1	308,040.00	1	308040.00	6100.00
Lenovo monitor(17" CRT monitor)	88000376	Lenovo	1	891.00	1	891.00	0.00
APC Smart UPS 1500 rackmount	SUA1500RM12U	APC	2	3,450.00	1	3450.00	1300.00
APC Smart UPS 1500 rackmount (spare)	SUA1500RM12U	APC	2	3,450.00	2	6900.00	2600.00
Subtotal					319281.00	10000.00	
3rd Party FC HBA							
Qlogic QL2462 dual port fibre channel host bus adapter	QLE2462-SP	Qlogic	1	15,405.60	2	30811.20	3389.23
Subtotal					30811.20	3389.23	
Storage Subsystem							
Adaptec Sanbloc2 dual raid storage subsystem	FC2501DR2-AC	Adaptec	1	174,919.71	1	174919.71	0.00
Adaptec Sanbloc2 single raid storage subsystem	FC2501SR2-AC	Adaptec	1	102,889.71	36	3704029.56	0.00
5 Meter 2Gb Fibre Channel Optical Cable, Multi Mode, LC to LC	2129000	Adaptec	1	926.10	41	37970.10	0.00
72 GB 15,000 rpm Fibre Channel Drive in Carrier (Seagate Cheetah X15)	2149100	Adaptec	1	5,762.40	14	80673.60	0.00
36 GB 15,000 rpm Fibre Channel Drive in Carrier (Seagate Cheetah X15)	2149400	Adaptec	1	3,910.20	504	1970740.80	0.00
Lenovo 19" 42U Enclosure	30000853	Lenovo	1	8,733.00	5	43665.00	4803.15
Lenovo KVM Switch & Cable (8 port)	888004199	Lenovo	1	2,381.50	1	2381.50	0.00
10% spare 36 GB 15,000 rpm Fibre Channel Drive	2149400	Adaptec	1	3,910.20	51	199420.20	0.00
10% spare 72 GB 15,000 rpm Fibre Channel Drive	2149100	Adaptec	1	5,762.40	2	11524.80	0.00
10% spare Adaptec Sanbloc2 dual raid storage subsystem	FC2501DR2-AC	Adaptec	1	174,919.71	2	349839.42	0.00
10% spare Adaptec Sanbloc2 single raid storage subsystem	FC2501SR2-AC	Adaptec	1	102,889.71	4	411558.84	0.00
5 Meter 2Gb Fibre Channel Optical Cable, Multi Mode, LC to LC (10% spare)	2129000	Adaptec	1	926.10	5	4630.50	0.00
Subtotal					6991354.03	4803.15	
Server Software							
Microsoft SQL Server 2005 Enterprise x64 Edition (per processor)	810-03152	Microsoft	1	215,000.00	2	430000.00	
Microsoft Windows Server 2003, Enterprise x64 Edition, SP1	38007772	Microsoft	1	25,000.00	1	25000.00	
Professional Support (1 Incident)		Microsoft	1	1,000.00	1		1000.00
Subtotal					455000.00	1000.00	
Client Hardware							
Lenovo SureSever R520 2 x Xeon 3.6 GHz w/1MB L2 cache, 2 GB DDR2-400 RAM (2 x 1GB), 73GB HDD 10K RPM, keyboard, mouse	61-012653	Lenovo	1	33,728.40	4	134913.60	24400.00
Lenovo Monitor (17" CRT monitor)	88000376	Lenovo	1	891.00	4	3564.00	0.00
Subtotal					138477.60	24400.00	
Client Software							
Microsoft Windows 2003 Server, Standard x86 Edition, SP1	38007760	Microsoft	1	4,500.00	4	18000.00	
Visual C++ .Net Standard (Visual Studio Pro 2005)	C5E-00116	Microsoft	1	4,000.00	1	4000.00	
Subtotal					22000.00	0.00	
Connectivity							
3COM SuperStack 3 Switch 4400 PWR 24P	3C17205	3COM	3	16,484.00	1	16484.00	0.00
3COM SuperStack 3 Switch 4400 PWR 24P (spare)	3C17205	3COM	3	16,484.00	2	32968.00	0.00
Qlogic Sanbox 5202 16port	SB5202-16A	Qlogic	1	65,000.00	3	195000.00	21000.00
Subtotal					244452.00	21000.00	
Total					8201375.83	64592.38	
Pricing key:1. Lenovo, 2. Huiyuan, (86)-10-62610081, http://detail.zol.com.cn/61/60869/price.shtml , 3. Skylevel, (86)-20-85614920, http://www.skylevel.com.cn/baojia(3com).htm				Three-Year Cost of Ownership		CNY 8,265,969	
Audited by Lorna Livingtree of Performance Metrics Inc.				tpmC Rating		125,954	
				Cost/tpmC		CNY 65.63	
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 . Thank you.							

Numerical Quantities Summary			
MQTh, Computed Maximum Qualified Throughput: 125,954 tpmC			
Response Times(in seconds)	90th Percentile	Average	Maximum
New-Order	0.22	0.17	5.09
Payment	0.17	0.13	2.44
Delivery	0.11	0.10	1.09
Stock Level	0.78	0.61	3.41
Order Status	0.19	0.16	5.04
Delivery (Deferred)	0.13	0.10	5.00
Menu	0.11	0.10	1.51
Response Time Delay Added for Emulated Components: (sec)			menu 0.1 Resp 0.1
Transaction Mix (in percent of total transactions)			Percent
New-Order			44.74%
Payment			43.06%
Delivery			4.04%
Stock Level			4.08%
Order Status			4.08%
Keying/Think Times(in seconds)	Minimum	Average	Maximum
New-Order	18.02/0.00	18.04/12.07	18.55/121.01
Payment	3.02/0.00	3.03/12.06	3.55/121.01
Delivery	2.02/0.00	2.03/5.08	2.55/50.52
Stock Level	2.02/0.00	2.03/5.06	2.55/50.52
Order Status	2.02/0.00	2.03/10.05	2.54/100.53
Test Duration			
Ramp-up time			146minutes
Measurement interval			120minutes
Number of checkpoints			4
Checkpoint interval			29min30sec
Number of transactions (all types) completed in measurement interval			87,533,323