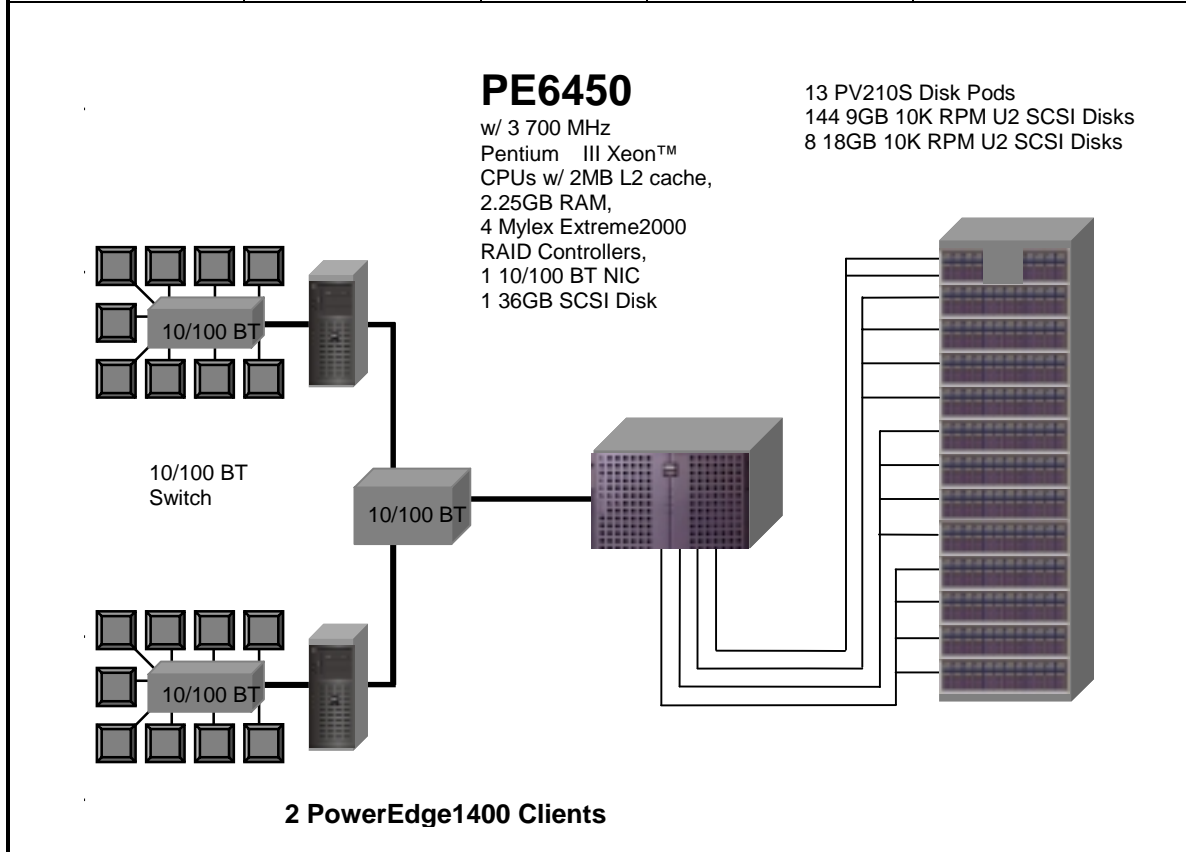


DELL		PowerEdge 6450/3P/std Client/Server w/2 PE1400 Front Ends		TPC-C Rev 3.5 Report Date FEB 2, 2001
Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
\$186,221		20,320.70 tpmC	\$9.17/ tpmC	FEB 2, 2001
Processors	Database Manager	OS	Other Software	Number of Users
3 x Pentium III Xeon™ Processors 700 MHz 2MB L2 Cache	Microsoft SQL Server 2000 Standard Edition	Microsoft Windows 2000 Server	Windows 2000 Server w/ COM+ Internet Information Server 5.0 Microsoft Visual C++	16,280



System Component	Server		Each Client	
Processors	3	Pentium III Xeon™ @ 700MHz	2	Pentium III @800MHz
Cache		2MB		w/ 256 KB L2
Memory		2304 MB		512 MB
Disk Controllers	4	Mylex ExtremeRAID 2000	1	Adaptec On-Board
	2	Adaptec On-Board		
Disk Drives	8	18 GB SCSI	1	9 GB
	1	36 GB SCSI		
	144	9 GB SCSI		
Total Storage		1,396 GB		9 GB
Other	1	10/100 BT NIC		
	1	CD-ROM		
	1	Tape Backup Unit		

Dell		PowerEdge 6400/3P/std		TPC-C REV 3.5 EXECUTIVE SUMMARY PAGE 2 OF 2			
		Client/Server		Report Date: 06-Feb-01			
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price	
Server Hardware							
Dell PowerEdge 6400 Includes Pentium III Xeon 700 MHz / 2MB L2	220-0663	Brand Pricing	1	5,933	1	5,933	1,999
Pentium III Xeon 700 MHz / 2MB L2 - 2nd processor	311-0833		1	2,785	1	2,785	0
Pentium III Xeon 700 MHz / 2MB L2 - Customer kit (3rd Proc	311-0893		1	2,785	1	2,785	0
2.0GB RAM, 8 x 256MB DIMMS	311-4112		1	2,645	1	2,645	0
256MB RAM, 4 x 64MB DIMMS,CJS	311-0893		1	335	1	335	0
9 GB U160M SCSI 10K RPM Hard Drive	340-6647		1	269	1	269	0
Intel Pro 100+ NIC	430-0222	Intel	1	59	1	59	0
Tape Backup Unit	340-7420		1	999	1	999	0
Dell 15" Monitor	320-0077		1	199	1	199	0
Extreme RAID 2000 PCI SCSI 4 channel RAID controller***	E2000-4-32NB	Mylex	3	1,872	6	11,232	0
Back-UPS Office 650	001332	APC	1	200	15	3,000	1,105
					Subtotal	30,241	3,104
PowerVault Disk Subsystem							
PV210S, U3 SCSI, PS, Rack mount	220-4099, etc.		1	2,399	13	31,187	18,382
SCSI Cables	310-0313		1	49	13	637	0
9GB HD,10K RPM,PVault 20XS	340-1394		1	269	144	38,736	0
18GB HD,10K RPM,PVault 20XS	340-1395		1	389	8	3,112	0
36GB,U2,SCSI,HD	340-2322		1	539	1	539	0
42U Rack	220-0605		1	1,682	1	1,682	0
					Subtotal	75,893	18,382
Server Software							
SQL Server 2000 Standard Edition, Per processor licensing **		Microsoft	2	4,271	3	12,813	10,475
Windows 2000 Server, 25 Client Licenses **		Microsoft	2	738	1	738	0
					Subtotal	13,551	10,475
Client Hardware							
Dell PowerEdge 1400, 866 MHz Pentium III w/ 256KB L2	220-1017		1	874	2	1,748	3,172
512MB RAM, 4 DIMMs	311-0440		1	662	2	1,324	0
9GB U160M SCSI Hard Drive,	340-2990		1	214	2	428	0
Ether Express PRO 100+ Ethernet Adapter	430-0222	Intel	1	59	2	118	0
Dell 15" Monitor	320-1502		1	199	2	398	0
					Subtotal	4,016	3,172
Client Software							
Windows 2000 Server, 5 Client Licenses **		Microsoft	2	738	2	1,476	0
Visual C++ Professional 6.0 Win32 **		Microsoft	2	549	1	549	0
					Subtotal	2,025	0
User Connectivity							
8 Port Ethernet Switch ***	CT2208D3	ArkPC	4	61	7	427	0
16+1 Port 10BaseT Ethernet Hub ***	CT1017D1	ArkPC	4	31	1,122	34,782	0
					Subtotal	35,209	0
					Other Discounts	(\$9,847)	0
					Total	\$151,088	\$35,133
Notes: * Maint. included in PowerVault 210S disk pod or PV650F/630F fibre channel disk pod					Five-Year Cost of Ownership:		\$186,221
** All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server					tpmC Rating:		20321
*** 10% or minimum 2 spares are added in place of onsite service (products have a five year return-to-vendor warranty) Pricing: 1 - Dell 2 - Microsoft 3 - Mylex 4 - ArkPC					\$/ tpmC:		9.17
Audited by Lorna Livingtree, Performance Metrics Inc.							
<i>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.</i>							

MQTh , computed Maximum Qualified Throughput		20320.70	
		tpmC	
% throughput difference, reported & reproducibility runs		0.23%	
Response Times (in seconds)	Average	90th	Max
- Neworder	0.43	0.68	2.20
- Payment	0.27	0.51	1.89
- Order Status	0.32	0.56	1.84
- Delivery (interactive portion)	0.16	0.30	1.37
- Delivery (deferred portion)	0.71	1.21	2.98
- Stock-Level	1.83	2.97	6.83
- Menu	0.16	0.30	1.39
Response time delay added for emulated components		Menu 0.1 Resp 0.1	
Transaction Mix , in percent of total transactions			
- New-Order	44.90%		
- Payment	43.01 %		
- Order-Status	4.02 %		
- Delivery	4.04 %		
- Stock-Level	4.03 %		
Keying/Think Times (in seconds),	Min	Average	Max
- New-Order	18.02 0.0	18.02 12.02	18.28 120.41
- Payment	3.01 0.0	3.02 12.03	3.27 120.40
- Order-Status	2.01 0.0	2.02 10.05	2.26 100.40
- Delivery	2.01 0.0	2.02 5.04	2.16 50.40
- Stock-Level	2.01 0.0	2.02 5.06	2.26 50.40
Test Duration			
- Ramp-up time	5 minutes		
- Measurement interval	20 minutes		
- Number of checkpoints	1		
- Checkpoint interval	20 minutes		
- Number of transactions (all types) completed in measurement interval	941,738		