



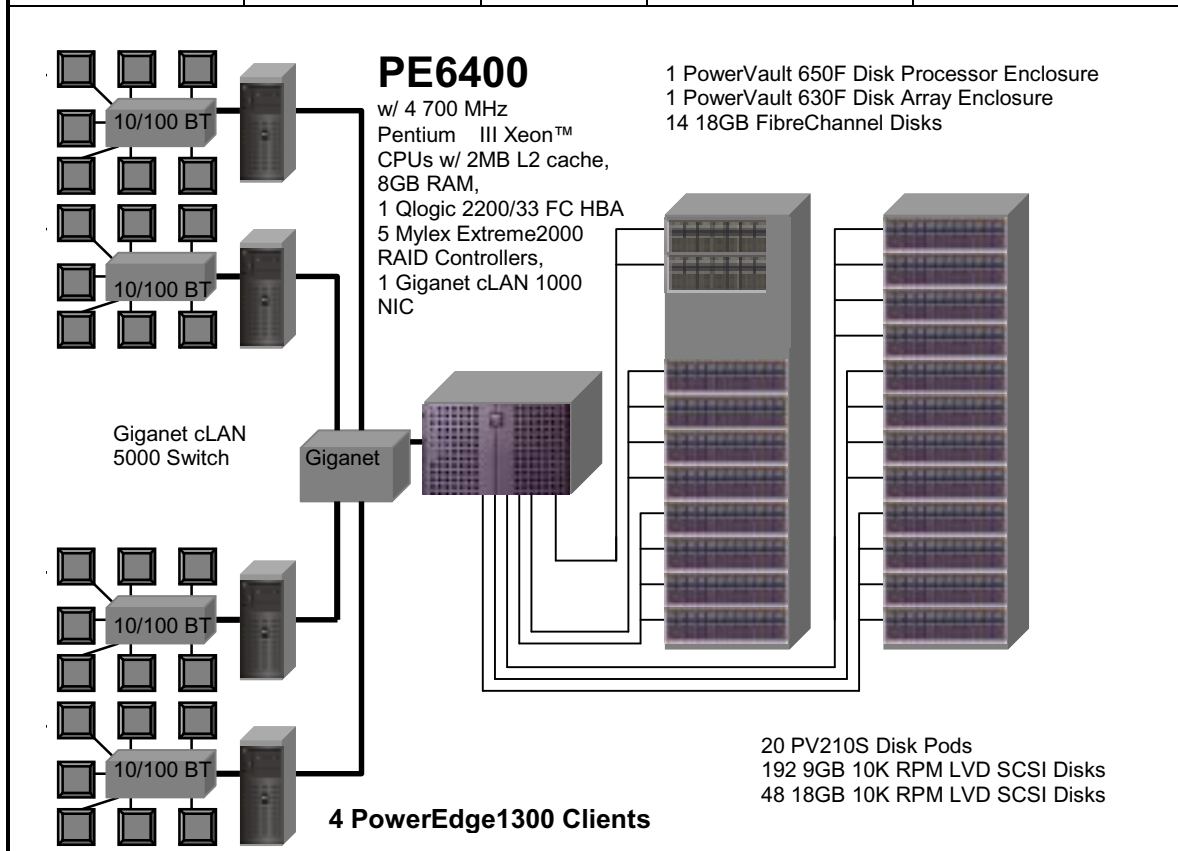
PowerEdge 6400

Client/Server w/4 PE1300 Front Ends

TPC-C Rev 3.5
Report Date
May 26, 2000

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$452,391	31,187.45 tpmC	\$14.51/ tpmC	Aug 1, 2000

Processors	Database Manager	OS	Other Software	Number of Users
4 x Pentium III Xeon™ Processors 700 MHz 2MB L2 Cache	Microsoft SQL Server 2000 Enterprise Edition	Microsoft Windows 2000 Advanced Server	Windows 2000 Server w/ COM+ Internet Information Server 5.0 Microsoft Visual C++	25,600



System Component	Server		Each Client	
Processors	4	Pentium III Xeon™ @ 700MHz	1	Pentium III w/ 512 KB L2
Cache		2MB		2 clients @ 600MHz, 2 @ 550
Memory		8192 MB		512 MB
Disk Controllers	5	Mylex ExtremeRAID 2000	1	Adaptec On-Board
	2	Adaptec On-Board		
Disk Drives	193	9 GB SCSI (8.195 GB useable)	1	9 GB
	48	18 GB SCSI (16.758GB useable)		
	14	18 GB FC (16.538 GB useable)		
Total Storage		2,618 GB		9 GB
Other	1	QLogic 2200/33 FC HBA	1	
	1	Gigaset cLAN 1000 NIC	1	
	1	CD-ROM	1	
	1	External DAT		

Dell		PowerEdge 6400		TPC-C REV 3.5 EXECUTIVE SUMMARY PAGE 2 OF 2			
		Client/Server		Report Date: 26-May-00			
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	5 yr. Maint. Price	
Server Hardware							
		Brand	Pricing				
Dell PowerEdge 6400	220-0660		1	10,883	1	1,999	
Pentium III Xeon 700 MHz / 2MB L2 - 4 processors	311-0834		1	21,599	1	0	
8 GB RAM, 16 x 512MB DIMMS	311-4118		1	34,406	1	0	
9 GB U160M SCSI 10K RPM Hard Drive	340-8805		1	349	1	0	
cLAN 1000 NIC, PCI 32/64-bit	430-0302	Giganet	1	695	1	0	
cLAN Giganet 10m Cable	310-0499	Giganet	1	150	1	0	
DLT4000 20/40GB Tape Backup Unit	340-0611		1	1,799	1	0	
Dell 15" Monitor	320-0077		1	199	1	0	
2200/33 Fibre Channel Host Bus Adapter	340-8314	Qlogic	1	1,199	1	0	
Extreme RAID 2000 PCI SCSI 4 channel RAID controller***	E2000-4-32NB	Mylex	3	1,872	7	0	
Smart-UPS 3000VA Rackmount ***	756214	APC	1	1,933	3	0	
Subtotal					90,182	1,999	
PowerVault Disk Subsystem							
PV210S, ESEM, PS, Rack mount	220-4099, etc.		1	2,864	20	23,280	
SCSI Cables	310-0313		1	69	20	0	
9 GB Ultra-2 LVD SCSI 10K RPM Hard Drive *	340-1394		1	349	192	0	
18 GB Ultra-2 LVD SCSI 10K RPM Hard Drive *	340-1395		1	549	48	0	
650F Disk Processor Enclosure w/ 2 SP/ 2 LCC/2 PS/2	340-0840		1	11,999	1	2,650	
512 MB RAID Controller Cache	311-0637		1	2,392	2	0	
630F Disk Array Enclosure w/ 2 LCC/2 PS	220-0480		1	4,747	1	2,280	
18GB 10K RPM Fibre Channel Hard Drive 10 Pack *	340-0838		1	9,999	1	0	
18GB 10K RPM Fibre Channel Hard Drive 5 Pack *	340-0837		1	4,999	1	0	
42U Rack	220-0605		1	1,599	3	0	
Subtotal					193,345	28,210	
Server Software							
SQL Server 2000 Ent Edition, Unlimited Client Licenses **		Microsoft	2	28,999	1	10,475	
Windows 2000 Advanced Server, 25 Client Licenses **		Microsoft	2	3,919	1	0	
Subtotal					32,918	10,475	
Client Hardware							
Dell PowerEdge 1300, 600 MHz Pentium III w/ 512KB L2	220-8789		1	1,074	2	2,670	
Dell PowerEdge 1300, 550 MHz Pentium III w/ 512KB L2	220-8772		1	1,074	2	2,670	
512MB RAM, 2 DIMMs	311-0953		1	1,370	4	0	
9GB LVD SCSI Hard Drive,	340-1466		1	299	4	0	
Ether Express PRO 100+ Ethernet Adapter	430-0222	Intel	1	59	4	0	
cLAN 1000 NIC, PCI 32/64-bit	430-0302	Giganet	1	695	4	0	
cLAN Giganet 2m Cable	310-0497	Giganet	1	99	4	0	
Dell 15" Monitor	320-1502		1	199	4	0	
Subtotal					15,180	5,340	
Client Software							
Windows 2000 Server, 5 Client Licenses **		Microsoft	2	999	4	0	
Visual C++ Professional 6.0 Win32 **		Microsoft	2	549	1	0	
Subtotal					4,545	0	
User Connectivity							
cLAN Giganet Switch	220-4191	Giganet	1	5,848	1	4,000	
8 Port Ethernet Switch ***	NX-SW8	Netlux	4	99	6	0	
8+1 Port 10BaseT Ethernet Hub ***	HB-1009DX/P	NetCruiser	5	25	3,556	0	
Subtotal					95,342	4,000	
Other Discounts					(\$29,145)	0	
Total					\$402,367	\$50,024	
Notes: * Maint. included in PowerVault 210S disk pod or PV650F/630F fibre channel disk pod					Five-Year Cost of Ownership: \$452,391		
** All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server							
*** 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 - Netlux 5 - Netcruiser					tpmC Rating: 31187.45		
Audited by Tom Sawyer, Performance Metrics Inc.					\$ / tpmC: 14.51		
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 .							

MQTh, computed Maximum Qualified Throughput 31187.45
 tpmC
 % throughput difference, reported & reproducibility runs 0.35%

Response Times (in seconds)	Average	90th	Max
- Neworder	0.77	1.55	5.08
- Payment	0.68	1.45	4.86
- Order Status	0.70	1.45	4.82
- Delivery (interactive portion)	0.28	0.71	2.30
- Delivery (deferred portion)	0.54	1.10	3.78
- Stock-Level	1.66	2.66	5.82
- Menu	0.29	0.75	2.32

Response time delay added for emulated components Menu 0.1
 Resp 0.1

Transaction Mix, in percent of total transactions

- New-Order	44.86 %
- Payment	43.03 %
- Order-Status	4.04 %
- Delivery	4.04 %
- Stock-Level	4.02 %

Keying/Think Times (in seconds),	Min		Average		Max	
- New-Order	18.01	0.0	18.03	12.05	18.08	120.42
- Payment	3.01	0.0	3.03	12.07	3.08	120.42
- Order-Status	2.01	0.0	2.03	10.03	2.07	100.41
- Delivery	2.01	0.0	2.03	5.05	2.07	50.41
- Stock-Level	2.01	0.0	2.03	5.04	2.07	50.42

Test Duration

- Ramp-up time	48 minutes
- Measurement interval	20 minutes
- Number of checkpoints	1
- Checkpoint interval	20 minutes
- Number of transactions (all types) completed in measurement interval	1,446,721