

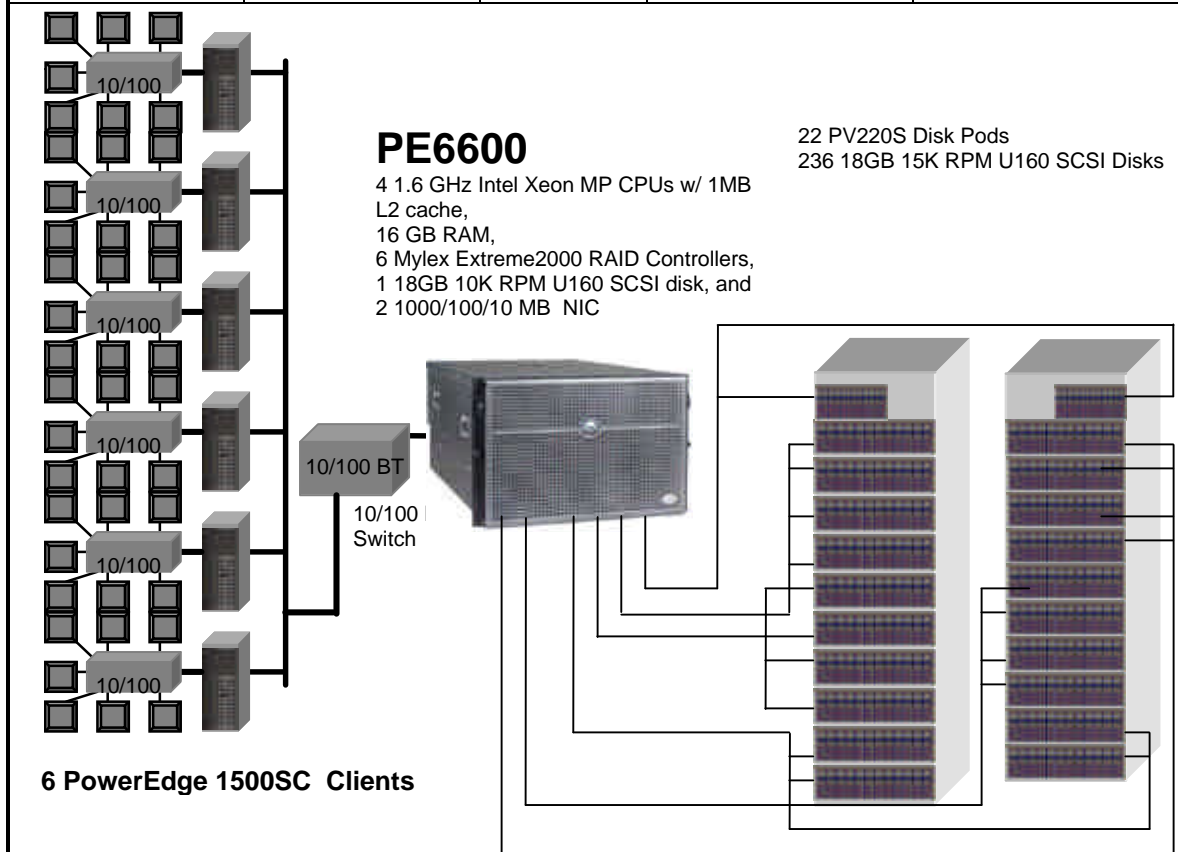


# PowerEdge 6600

Client/Server w/6 PE1500 Front Ends

TPC-C Rev 5.0  
Report Date  
Oct 30, 2002

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date	
<b>\$288,627</b>	<b>51,069.87 tpmC</b>	<b>\$5.66/ tpmC</b>	<b>Dec 31, 2002</b>	
Processors	Database Manager	OS	Other Software	Number of Users
4 x Intel Xeon™ MP Processors 1.6 GHz 1MB L2 Cache	Microsoft SQL Server 2000 Enterprise Edition	Microsoft Windows .NET Enterprise Server	Windows 2000 Server w/ COM+ Internet Information Server 5.0 Microsoft Visual C++	<b>41,000</b>



System Component	Server		Each Client	
Processors	4	Intel Xeon MP @ 1.6GHz	1	Pentium® III w/ 512 KB L2
Cache		1MB cache		6 clients @ 1.13 GHz
Memory		16,384 MB		512 MB
Disk Controllers	6	Mylex ExtremeRAID 2000	1	Adaptec On-Board
	1	Adaptec On-Board		
Disk Drives	237	18 GB SCSI	1	18 GB
Total Storage		3971.56 GB		18 GB
Other	2	1GB NIC	2	10/100MB BT NIC
	1	CD-ROM	1	
	1	DAT		

	Client/Server	Report Date: 30-Oct-02
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Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price
		Brand      Pricing				
<b>Server Hardware</b>						
Dell PowerEdge 6600	220-8304	1	8,126	1	8,126	1,299
Intel Xeon MP 1.6GHz / 1MB L2 - 4 processors	311-1528	1	14,999	1	14,999	-
16 GB,DDR, 16 x 1024MB DIMMS	311-1555	1	9,899	1	9,899	-
18 GB U160M SCSI 10K RPM Hard Drive	340-3767	1	249	1	249	-
Tape Backup Unit	340-7562	1	799	1	799	-
Dell 15" Monitor	320-0960	1	149	1	149	-
Extreme RAID 2000 PCI SCSI 4 channel RAID controller***	08P3834	Mylex 3	1,228	8	9,824	-
<b>Subtotal</b>					44,045	1,299
<b>PowerVault Disk Subsystem</b>						
PV220S, U3 SCSI, PS, Rack mount	220-4476, etc.	1	2,756	22	60,632	13,200
SCSI Cables	310-0679	1	99	11	1,089	-
18 GB SCSI 10K RPM Hard Drive *	340-3087	1	399	236	94,164	-
42U Rack	220-4492	1	1,264	2	2,528	-
<b>Subtotal</b>					158,413	13,200
<b>Server Software</b>						
SQL Server 2000 Ent Edition, Per processor licensing **	810-00846	Microsoft 2	16,541	4	66,164	5,850
Windows .NET Enterprise Server 2003 **		Microsoft 2	2,699	1	2,699	-
<b>Subtotal</b>					68,863	5,850
<b>Client Hardware</b>						
Dell PowerEdge 1500SC, 1.13 GHz Pentium III w/ 512KB L2	220-0888	1	1,665	6	9,990	4,788
512MB RAM, 4 DIMMs	311-1833	1	408	6	2,448	-
18GB,U160,10K, SCSI Hard Drive,	340-9450	1	249	6	1,494	-
Ether Express PRO 100+ Ethernet Adapter	430-0369	Intel 1	59	6	354	-
Dell 15" Monitor	320-0960	1	149	6	894	-
<b>Subtotal</b>					15,180	4,788
<b>Client Software</b>						
Windows 2000 Server, 5 Client Licenses **	C11-00821	Microsoft 2	738	6	4,428	-
Visual C++ Professional 6.0 Win32 **	048-00317	Microsoft 2	549	1	549	-
<b>Subtotal</b>					4,977	-
<b>User Connectivity</b>						
16 Port Ethernet Switch	220-1499	Dell 1	119	1	119	65
<b>Subtotal</b>					119	105
<b>Other Discounts</b>					(28,212)	-
<b>Total</b>					263,385	25,242

<p>Notes: * Maint. included in PowerVault 220S disk pod or PV650F/630F fibre channel disk pod</p> <p>** All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server</p> <p>*** 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 - Computer Giants</p> <p>**** Discount based upon total system cost as purchased by a regular customer. Pricing may be verified by calling 1-800-BUY-DELL referencing quote numbers 93483308 as complex quotes.</p> <p><b>Audited by Lorna Livingtree, Performance Metrics Inc.</b></p>	<p><b>Three-Year Cost of Ownership:      \$288,627</b></p> <p><b>tpmC Rating:                              51069.87</b></p> <p><b>\$ / tpmC:                                      5.66</b></p>
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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](mailto:pricing@tpc.org).

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**MQTh**, computed Maximum Qualified Throughput

51,069.87  
tpmC

**Response Times** (in seconds)

	Average	90th	Max
- Neworder	0.44	0.49	39.19
- Payment	0.27	0.35	37.10
- Order Status	0.29	0.37	37.03
- Delivery (interactive portion)	0.11	0.17	35.35
- Delivery (deferred portion)	0.20	0.32	21.09
- Stock-Level	1.11	1.58	38.70
- Menu	0.11	0.20	35.85

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	43.02 %
- Order-Status	4.04 %
- Delivery	4.04 %
- Stock-Level	4.05 %

**Keying/Think Times** (in seconds),

	Min		Average		Max	
- New-Order	18.01	0.0	18.02	12.04	18.57	120.43
- Payment	3.01	0.0	3.02	12.04	3.85	120.44
- Order-Status	2.01	0.0	2.02	10.05	2.46	100.42
- Delivery	2.01	0.0	2.02	5.05	2.49	50.41
- Stock-Level	2.01	0.0	2.02	5.04	2.88	50.41

**Test Duration**

- Ramp-up time	22 minutes
- Measurement interval	120 minutes
- Number of checkpoints	4
- Checkpoint interval	30 minutes
- Number of transactions (all types) completed in measurement interval	14,213,636