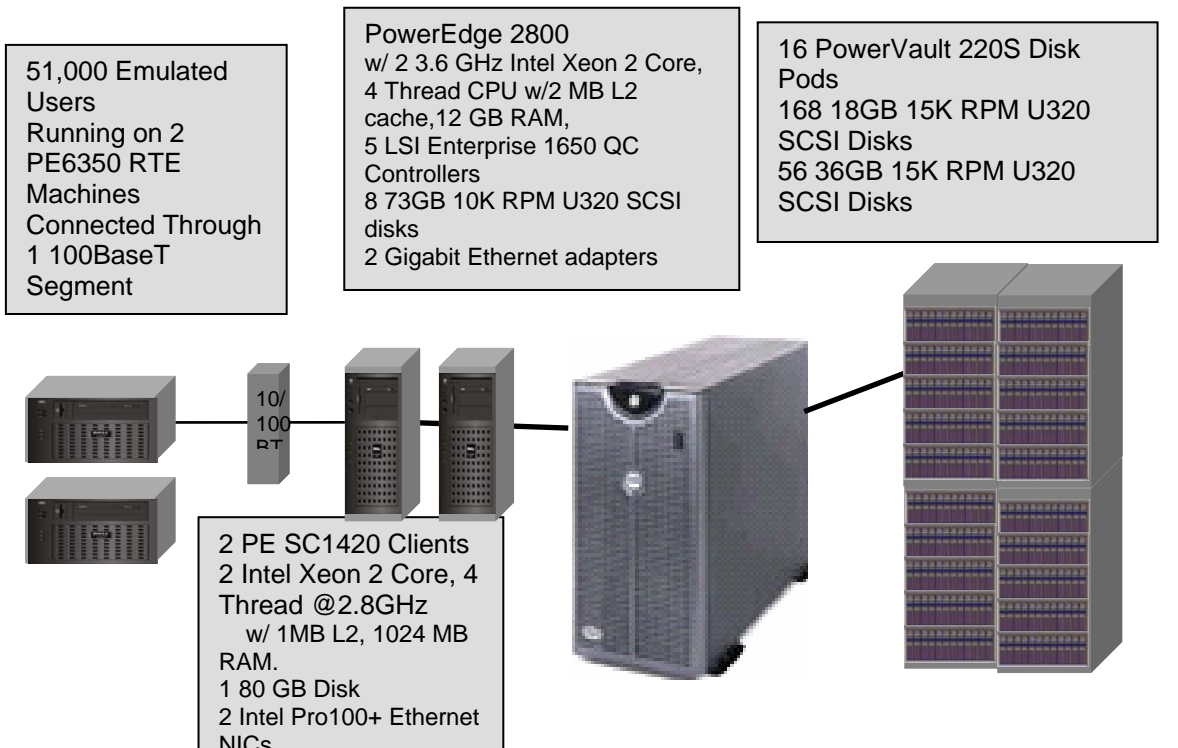




**PowerEdge 2800 Client/Server w/2 PE SC 1420 Front End**

TPC-C Rev 5.6  
 Report Date  
**May 10, 2005**  
 Revised Date  
**April 14, 2006**

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
<b>\$144,804</b>	<b>63,646 tpmC</b>	<b>\$2.28 / tpmC</b>	May 10, 2005
Processors	Database Manager	OS	Other Software
2 x Intel Xeon™ 2 Core, 4 Thread Processors @3.6 GHz 2MB L2 Cache	Microsoft SQL Server 2000 Enterprise Edition SP3	Microsoft Windows Server 2003, Enterprise Edition	Windows Server 2003 Std Ed w/ COM+ Internet Information Server 6.0 Microsoft Visual C++
Number of Users			
51,000			



System Component	Server		Each Client	
Processors Cache	2	Intel Xeon 2 Core, 4 Thread @ 3.6GHz 2MB cache	2	Intel Xeon 2 Core, 4 Thread w/ 1MB L2 Client @ 2.8 GHz
Memory		12288 MB		1024 MB
Disk Controllers	5	LSI Enterprise 1650 QC Controller	1	Onboard SATA
Disk Drives	168 56 8	18 GB 15k SCSI 36 GB 15k SCSI 73 GB 10k SCSI	1	80 GB SATA
Total Storage		5400 GB	1	80 GB Disk
Other	2 1	2GB NIC CD-ROM	2 1	10/100MB BT NIC CD-ROM

Dell		PowerEdge 2800			TPC-C REV 5.6 PAGE 2 OF 3		
		Client/Server		Report Date: 10-December-04 Revised April 14, 2006			
Description	Part Number	Third Party		Unit Price	Qty	Extended Price	3 yr. Maint. Price
<b>Server Hardware</b>		Brand	Pricing				
Dell PowerEdge 2800 3.6GHz XEON w/2MB L2 cache, 800MHZ FSB, 2 onboard Gigabit NICs	221-7962			\$1,665.00	1	\$1,665.00	\$290.00
3.6G/2MB, XEON,800MHZ FSB	311-4848			\$999.00	1	\$999.00	
12GB DDR2 400MHz(6X2 GB),1R	311-3591			\$15,299.00	1	\$15,299.00	
Dell E773,17 in Gray (16.0 VIS)	320-2907			\$135.00	1	\$135.00	
						<b>Subtotal</b>	\$18,098.00
<b>3rd Party Raid Controllers</b>							
LSI MegaRAID Elite 1650 4-ch SCSI	4942510264A	LSI	3	\$1,999.00	7	\$13,993.00	
<b>PowerVault Disk Subsystem</b>							
PV220S, U3, PS, Tower	220-4477, etc.			\$955.00	16	\$15,280.00	\$6,416.00
ZEMM,U320,PV22XS,SINGLE	340-9324			\$399.00	16	\$6,384.00	
600W,PWR SPLY,PV22XS	310-0677			\$0.00	5	\$0.00	
600W,PWR SPLY,PV22XS	310-0683			\$89.00	5	\$445.00	
36GB U320M SCSI 15K RPM Hard Drive	340-9471			\$249.00	224	\$55,776.00	
73GB U320M SCSI 15K RPM Hard Drive (OS+LOG)	340-9372			\$399.00	8	\$3,192.00	
						<b>Subtotal</b>	\$81,077.00
<b>Server Software</b>							
SQL Server 2000 Ent Edition, Per processor licensing **	810-00845	Microsoft	1	\$17,279.00	2	\$34,558.00	
Windows 2003 Ent Edition Server **	P72-00264	Microsoft	1	\$2,334.00	1	\$2,334.00	
Professional Support (1 Incident)		Microsoft	1	\$245.00	1		\$245.00
						<b>Subtotal</b>	\$36,892.00
<b>Client Hardware</b>							
Dell PowerEdge 1420SC, 2.8 GHz / 1MB L2/800 FSB	221-5680			\$480.00	2	\$960.00	\$290.00
Additional processor , 2.8 GHz / 1 MB	311-3803			\$399.00	2	\$798.00	
1025MB RAM, 2 DIMMs	311-3811			\$448.00	2	\$896.00	
80GB SATA 7.2K Hard Drive	340-7087			\$159.00	2	\$318.00	
IntelPro 100S	430-0369			\$59.00	2	\$118.00	
Dell E773,17 in Gray (16.0 VIS)	320-2907			\$135.00	2	\$270.00	
						<b>Subtotal</b>	\$3,360.00
<b>Client Software</b>							
Windows 2003 Standard Server **	P73-00295	Microsoft	1	\$719.00	2	\$1,438.00	
Visual C++ **.NET	254-00170	Microsoft	1	\$109.00	2	\$218.00	
						<b>Subtotal</b>	\$1,656.00
<b>User Connectivity</b>							
7ft Crossover cable	CBLC5C7	LanAdapter	2	\$2.00	6	\$12.00	
						<b>Subtotal</b>	\$12.00
All hardware and maintenance components from Dell are discounted 16% based on total dollar volume of this configuration. <b>Other Discounts</b>						\$17,524.96	
						<b>Total USD</b>	\$137,563
							\$7,241
Notes: * Maint. included in PowerVault 220S disk pod or PV650F/630F fibre channel disk pod						<b>Three-Year Cost of Ownership USD:</b>	\$144,804
** 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 - Microsoft 2 - LanAdapter 3 - LSI						<b>tpmC Rating:</b>	63646
Pricing may be verified by calling 1-800-BUY-DELL and referencing quote # 220310286, 220310174, and 22039902 as complex quotes.							
<b>Audited by Lorna Livingtree, Performance Metrics Inc.</b>						<b>USD\$ / tpmC:</b>	2.28
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

63,646 tpmC

**Response Times** (in seconds)

	Average	90 <sup>th</sup>	Max
- Neworder	0.43	0.67	5.68
- Payment	0.30	0.52	4.84
- Delivery (interactive portion)	0.11	0.12	1.45
- Stock-Level	1.77	2.24	6.21
- Order Status	0.40	0.63	5.94
- Delivery (deferred portion)	0.35	0.60	1.91
- Menu	0.11	0.12	1.82

Response time delay added for emulated components

Menu 0.1  
Resp 0.1

**Transaction Mix**, in percent of total transactions

- New-Order	44.84%
- Payment	43.02%
- Delivery	4.05%
- Stock-Level	4.05%
- Order-Status	4.05%

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

	Min		Average		Max	
- New-Order	18.01	0.0	18.03	12.04	19.49	121.17
- Payment	3.01	0.0	3.03	12.04	4.50	120.46
- Delivery	2.02	0.0	2.03	5.05	3.48	50.41
- Stock-Level	2.02	0.0	2.03	5.05	3.49	51.23
- Order-Status	2.02	0.0	2.03	10.04	3.50	100.42

**Test Duration**

- Ramp-up time	10 minutes
- Measurement interval	120 minutes
- Number of checkpoints	4
- Checkpoint interval	30 minutes
- Number of transactions (all types) completed in measurement interval	17,723,072 17,646,944