

DELL		PowerEdge 2900 Server with 1 PowerEdge SC1420 Client		TPC-C Rev 5.7 Original Report Date June 30 ,2006	
Total System Cost		TPC-C Throughput		Price/Performance	
\$64,512		65,833 tpmC		\$.98 / tpmC	
Availability Date		June 26, 2006			
Processors	Database Manager	OS	Other Software	Number of Users	
1/2/2 Dual Core Intel® Xeon® 5160, 4MB Cache, 3.00GHZ 1333, 667MHZ FSB	Microsoft SQL Server 2005 Standard x64 Edition	Microsoft Windows Server 2003 Standard x64 Edition SP1	Windows Server 2003 Standard Edition w/ COM+ Internet Information Server 6.0 Microsoft Visual C++	53,000	

53,000 Emulated Users
Running on 2 PE6350 RTE Machines
Connected Through 1 100BaseT Segment

PowerEdge 2800
1/2/2 Dual Core Intel® Xeon® 5160, 4MB Cache, 3.00GHZ, 24GB 667MHZ FSB
1 Dell PERC5 SAS RAID Controller, 1 Integrated PERC5i SAS RAID Controller.
8 73GB,3GBPS,SAS,3.5IN,10K
2 NetXtreme II GigE TOE

6 PowerVault 1000MD SAS Disk Pods
90 36GB 15K RPM SAS Disks

1 PowerEdge SC1420 Client
2/2/2 Intel Xeon 3.2GHz w/ 2MB L2
1024 MB RAM
1 80GB SATA 7.2K Disk
2 Intel Pro100+ Ethernet NICs

System Component	Server		Each Client	
Processor/Core/Cache	1	1/2/2 Dual Core Intel® Xeon® 5160, 4MB Cache, 3.00GHZ, 1333	2	2/2/2 Intel® Xeon® w/ 2MB L2, 3.2 GHz
Memory		24GB 667 FB-DIMM		1024 MB
Disk Controllers	1 1	Dell PERC5 RAID Controller. Integrated PERC5i Raid Controller.	1	Onboard SATA
Disk Drives	90 8	36GB SAS 15K 73GB SAS 10K	1	80GB 7.2K SATA
Total Storage	98	3345 GB SAS	1	80GB SATA
Other	2 1	Broadcom NetXtreme II GigE CD-ROM	2 1	10/100MB BT NIC CD-ROM

Dell		PowerEdge 2900		TPC-C REV 5.7 EXECUTIVE SUMMARY PAGE 2 OF 3			
		Client/Server	Report Date: 30-June-06				
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
Server Hardware		Brand	Pricing				
3.0G/4MB,1333,XEON,2 onboard Gigabit NICs	222-0210		\$1,451.00	1	\$1,451.00	\$320.00	
24GB (12X2GB) DDR2 667MHz FBD	311-3605		\$420.67	12	\$5,048.04		
PERC5/E,SAS,EXT,PCI-E,MD1000	341-3023		\$799.00	1	\$799.00		
73GB SAS 10K (OS+LOG)	341-2565		\$299.00	8	\$2,392.00		
E773s 17-inch Color CRT Monitor	E7733YR		\$149.00	1	\$149.00		
				Subtotal	\$9,839.04	\$320.00	
PowerVault Disk Subsystem							
PowerVault MD1000,RACK,3U,15 BAY,LBZL	220-4476		\$3,180.00	6	\$19,080.00	\$9,888.00	
TW0 ENCL MGT MODULES, SAS ONLY	340-9324		\$500.00	6	\$3,000.00		
36GB,3GBPS,SAS,3.5IN,15K Hard Drive	340-9472		\$249.00	90	\$22,410.00		
Dell Depth 4 Post Rack 30U	111-30-D	Racksolutions.com	\$429	1	\$429.00		
				Subtotal	\$44,919.00	\$9,888.00	
Server Software							
SQL Server 2005 Std x64 Edition, Per processor licensing *	228-03128	Microsoft.com	\$5,999.00	1	\$5,999.00		
Windows Server 2003 Standard x64 Edition **	P73-00295	Microsoft.com	\$719.00	1	\$719.00		
Professional Support (1 Incident)		Microsoft.com	\$245.00	1		\$245.00	
				Subtotal	\$6,718.00	\$245.00	
Client Hardware							
Dell PowerEdge SC 1420, 3.2GHZ/2MB,400 FSB	221-7738		\$1,129.00	1	\$1,129.00	\$320.00	
Additional processor , 2nd Proc,3.2GHZ/2MB/400,SC1420	311-4792		\$599.00	1	\$599.00		
1.0GB DDR2, 400, 2X512 Dinms	311-3811		\$198.00	1	\$198.00		
80GB,SATA,1IN,7.2K RPM,HD ,7.2K	341-1024		\$99.00	1	\$99.00		
INTEL PRO-100S WMPSEC,NIC	430-0369		\$59.00	1	\$59.00		
E773s 17-inch Color CRT Monitor	E7733YR		\$149.00	1	\$149.00		
				Subtotal	\$2,233.00	\$320.00	
Client Software							
Windows Server 2003 Standard Edition **	P73-00295	Microsoft.com	\$719.00	1	\$719.00		
Visual C++ Standard Edition	254-00170	Microsoft.com	\$109.00	1	\$109.00		
				Subtotal	\$828.00		
User Connectivity							
7ft Crossover cable	CBLC5C7	LanAdapter.com	\$1.38	3	\$4.14		
				Subtotal	\$4.14		
All Hardware and maintenance components from Dell are discounted 16% based on total dollar value of this configuration.				Other Discounts	\$10,803.05		
				Total USD:	\$53,738	\$10,773	
Notes: For pricing verification call 1-800-BUY-DELL and reference Quote# 302710744 as a complex quote.			Three-Year Cost of Ownership USD:			\$64,512	
** All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server							
Pricing: 1 - Microsoft 2 - LanAdapter.com 3 -RackSolutions.com						tpmC Rating:	65833
Audited by Lorna Livingtree, Performance Metrics Inc.						USD\$ / tpmC:	0.98

MQTh, computed Maximum Qualified Throughput

65,833 tpmC

Response Times (in seconds)

	Average	90 th	Max
- Neworder	0.45	0.86	7.14
- Payment	0.36	0.75	6.92
- Delivery (interactive portion)	0.21	0.44	2.83
- Stock-Level	0.47	0.94	7.03
- Order Status	0.42	0.83	9.74
- Delivery (deferred portion)	0.35	0.55	6.99
- Menu	0.21	0.44	2.87

Response time delay added for emulated components

Menu 0.1

Resp 0.1

Transaction Mix, in percent of total transactions

- New-Order	44.83%
- Payment	43.03%
- Delivery	4.05%
- Stock-Level	4.05%
- Order-Status	4.04%

Keying/Think Times (in seconds),

	Min		Average		Max	
- New-Order	18.02	0.0	18.03	12.06	19.53	120.65
- Payment	3.02	0.0	3.03	12.05	4.54	120.88
- Delivery	2.02	0.0	2.03	5.06	3.52	50.42
- Stock-Level	2.02	0.0	2.03	5.06	3.53	50.42
- Order-Status	2.02	0.0	2.03	10.06	3.52	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)	18,257,161