



# PowerEdge™ 2900 III Server

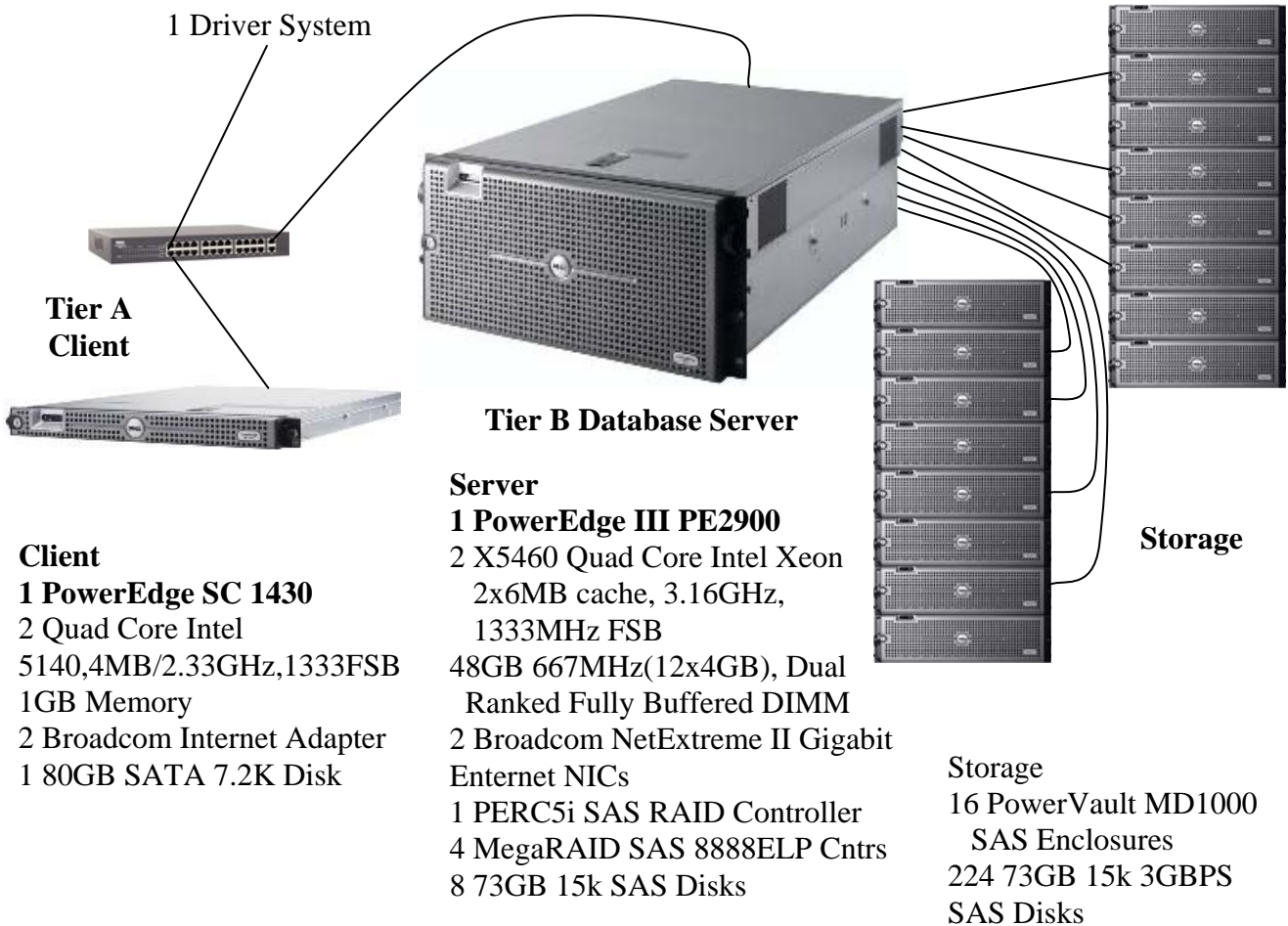
**TPC-E 1.5.0  
TPC Pricing 1.3**

Report Date:  
April 8, 2008

TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
<b>295.27 tpsE</b>	<b>\$694.08 USD per tpsE</b>	<b>April 8, 2008</b>	<b>\$204,940 USD</b>

## Database Server Configuration

Operating System	Database Manager	Processors/Cores/ Threads	Memory
<b>Microsoft Windows Server 2008 Enterprise x64 Edition™</b>	<b>SQL Server 2008 Enterprise x64 Edition™</b>	<b>2/8/8</b>	<b>48GB</b>



Initial Database Size <b>1,666GB</b>	Redundancy Level: <b>One</b>	Storage <b>8 x 73GB 224 x 73GB</b>
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## PowerEdge 2900 III

### TPC-E 1.5.0 TPC Pricing 1.3

Report Date

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Revision Date

April 8, 2008

Availability Date

April 8, 2008

Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3 yr. Maint. Price
<b>Server Hardware</b>						
PE2900,QC XEON X5460,12MB,3.16GHz	223-4504	1	1,803.00	1	\$1,803.00	\$320.00
& 2 Broadcom NICs						
X5460,2X6MB/3.16GHZ,1333FSB 2nd Proc	311-7937	1	1,449.00	1	\$1,449.00	
48GB 667MHz(12x4GB),2R	311-6328	1	4,498.00	1	\$4,498.00	
PERC5/i,Integrated	341-3018	1	\$299.00	1	\$299.00	
MegaRAID SAS 8888ELP, 2X4 EXTERNAL	LS-8888ELP	3	\$798.25	6	\$4,789.50	
73GB,3GBPS,SAS,3.5IN,15K	341-2818	1	\$299.00	8	\$2,392.00	
DELL E157FP,15 IN,15.0 VIS	320-5090	1	\$189.00	1	\$189.00	
				<b>Subtotal</b>	\$15,419.50	\$320.00
<b>Server Storage</b>						
PV MD1000,RACK,3U,15 BAY,LBZL	222-2299	1	2,480.00	16	\$39,680.00	\$26,368.00
SINGLE ENCL MGT MODULE, SAS ONLY	420-5927	1	\$345.83	16	\$5,533.28	
73GB,3GBPS,SAS,3.5IN,15K	341-2818	1	\$299.00	224	\$66,976.00	
RACK-111/24U/Dell	A0213544	1	\$479.95	2	\$959.90	
				<b>Subtotal</b>	\$113,149.18	\$26,368.00
<b>Server Software</b>						
SQL Server 2008 Enterprise x64 Edition **		2	\$23,911.00	2	\$47,822.00	
Windows Server 2008 Enterprise x64 Server **	P72-03195	2	\$2,357.00	1	\$2,357.00	
Professional Support (1 Incident)	N/A		\$245.00	1		\$245.00
				<b>Subtotal</b>	\$50,179.00	\$245.00
<b>Client Hardware</b>						
Dell PowerEdge SC 1430, 2.33GHZ/4MB,1333 FSB	223-3196	1S	910.00	1	\$910.00	\$320.00
Additional processor , E5345,2X4MB,2.33GHZ,1333FSB	311-7774	1S	749.00	1	\$749.00	
4GB,667MHz,(2X2GB),2R,FBD	311-6254	1	\$448.00	1	\$448.00	
80GB,SATA,1IN,7.2K RPM,HD ,7.2K	341-3757	1	\$99.00	1	\$99.00	
BCOM NetX 5721 ,Gb,ETHERNET,NIC	430-1496	1	\$59.00	1	\$59.00	
				<b>Subtotal</b>	\$2,265.00	\$320.00
<b>Client Software</b>						
Windows Server 2003 Enterprise x64 Server **	P72-01684	2	\$2,334.00	1	\$2,334.00	
				<b>Subtotal</b>	\$2,334.00	\$0.00
<b>Infrastructure</b>						
PowerConnect 2216, 16port Switch	222-2259	1	\$69.00	1	\$69.00	
1M SAS Cable MegaRAID SAS 8888ELP	HI-MS-1MSB	3	\$34.10	8	\$272.80	
2M SAS Cable, MD1000	310-7083	1	\$40.00	8	\$320.00	
				<b>Subtotal</b>	\$661.80	\$0.00
				<b>Other Discounts*</b>	(\$6,321.66)	
				<b>Total</b>	\$177,686.82	\$27,253.00

**Notes:**

One or more components of the measured configuration have been substituted in the Priced Configuration. See the FDR for details.

\*All hardware from Dell(1) is discounted 5% based on total dollar volume of this config.

\*\* All Microsoft maintenance is covered by the maint. costs of Microsoft SQL Server

Price Source: 1=Dell, 2=Microsoft, 3=eVMz, NIO = Not Immediately Orderable

Pricing may be verified by calling 1-800-BUY-DELL and referencing quote # 423605499 as a complex quote.

**Audited by Lorna Livingtree, Performance Metrics Inc.**

<b>Three-Year Cost of Ownership:</b>	<b>\$204,940</b>	<b>USD</b>
<b>TPC-E Throughput:</b>	<b>295.27</b>	<b>tpsE</b>
<b>Price/Performance:</b>	<b>\$694.08</b>	<b>tpsE/USD</b>

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.

Numerical Quantities Summary				
<b>Reported Throughput: 295.27 tpsE</b>		<b>Configured Customers: 150,000</b>		
<b>Response Times (in seconds)</b>	<b>Minimum</b>	<b>Average</b>	<b>90<sup>th</sup>%tile</b>	<b>Maximum</b>
Broker-Volume	0.01	0.03	0.06	1.12
Customer-Position	0.00	0.03	0.05	0.78
Market-Feed	0.00	0.03	0.08	0.39
Market-Watch	0.00	0.02	0.05	0.35
Security-Detail	0.00	0.01	0.03	1.70
Trade-Lookup	0.01	0.49	0.64	1.15
Trade-Order	0.00	0.08	0.13	0.62
Trade-Result	0.00	0.08	0.13	0.58
Trade-Status	0.00	0.02	0.04	0.56
Trade-Update	0.04	0.58	0.69	1.20
Data-Maintenance	0.01	0.11		2.12
<b>Transaction Mix</b>		<b>Transaction Count</b>		<b>Mix %</b>
Broker-Volume		1,041,650		4.900%
Customer-Position		2,763,668		13.000%
Market-Feed		212,602		1.000%
Market-Watch		3,826,747		18.000%
Security-Detail		2,976,392		14.000%
Trade-Lookup		1,700,573		7.999%
Trade-Order		2,147,222		10.100%
Trade-Result		2,125,992		10.000%
Trade-Status		4,039,405		19.001%
Trade-Update		425,197		2.000%
Data-Maintenance		120		
<b>Test Duration and Timings</b>				
Ramp-up Time (hh:mm:ss)			00:19:59	
Measurement Interval (hh:mm:ss)			02:00:00	
Business Recovery Time (hh:mm:ss)			01:23:44	
Total number of Transactions Completed in Measurement Interval			21,259,448	