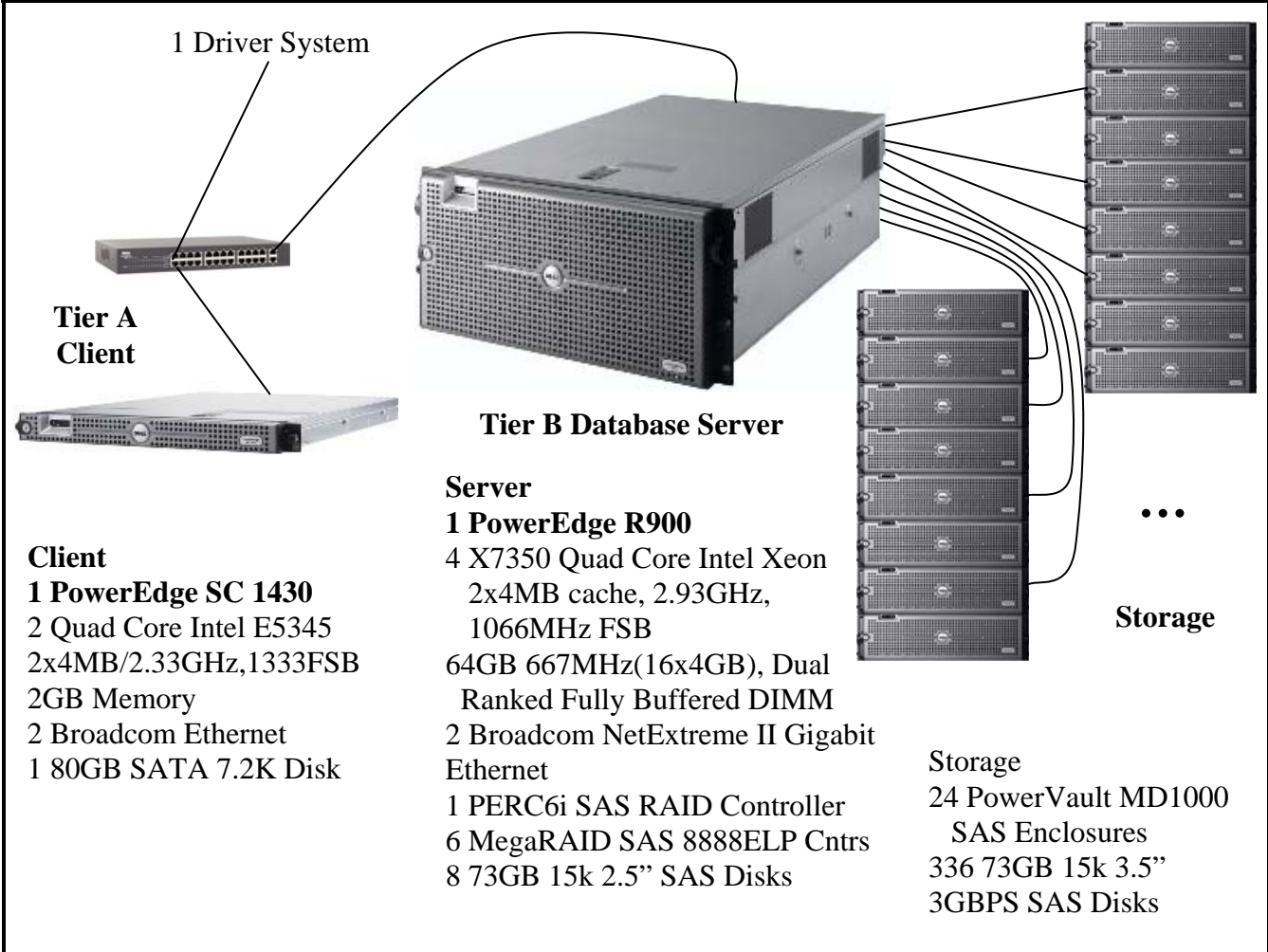
	PowerEdge™ R900 Server		TPC-E 1.5.1 TPC Pricing 1.3
			Report Date: July 8, 2008
TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
451.29 tpsE	\$734.25 USD per tpsE	August 31, 2008	\$331,357 USD

Database Server Configuration

Operating System	Database Manager	Processors/Cores/ Threads	Memory
Microsoft Windows Server 2008 Enterprise x64 Edition™	SQL Server 2008 Enterprise x64 Edition™	4/16/16	64GB



Initial Database Size 1,666GB	Redundancy Level: One	Storage 8 x 73GB 336 x 73GB
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PowerEdge R900

**TPC-E 1.5.1
TPC Pricing 1.3**

Report Date
July 8, 2008
Revision Date
July 8, 2008
Availability Date
August 31, 2008

Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3 yr. Maint. Price
Server Hardware						
PER900,DUAL X7350,2.93GHz,130W & 2 Broadcom NICs	223-4229	1	9,395.00	1	\$9,395.00	\$540.00
Upgrade to Quad X7350, 2.93GHz	310-9825	1	5,599.00	1	\$5,599.00	
64GB,667MHZ, 16X4GB	311-7857	1	5,241.00	1	\$5,241.00	
PERC6i SAS RAID, Internal, Bat	341-5699	1	\$299.00	1	\$299.00	
MegaRAID SAS 8888ELP, 2X4 EXTERNAL	LS-8888ELP	6	\$790.00	8	\$6,320.00	
73GB,SAS,2.5-inch,15K RPM HD	341-4727	1	\$339.00	8	\$2,712.00	
DELL E157FP,15 IN,15.0 VIS	320-5090	1	\$189.00	1	\$189.00	
				Subtotal	\$29,755.00	\$540.00
Server Storage						
PV MD1000,RACK,3U,15 BAY,LBZL	222-2299	1	2,480.00	24	\$59,520.00	\$39,792.00
SINGLE ENCL MGT MODULE, SAS ONLY	420-5927	1	\$345.83	24	\$8,299.92	
73GB,3GBPS,SAS,3.5IN,15K	341-2818	1	\$299.00	336	\$100,464.00	
RACK-42U, CUST	340-4896	1	\$239.99	2	\$479.98	
				Subtotal	\$168,763.90	\$39,792.00
Server Software						
SQL Server 2008 Enterprise x64 Edition **		2	\$23,432.00	4	\$93,728.00	
Windows Server 2008 Enterprise Edition (x64) **	P72-03168	2	\$2,310.00	1	\$2,310.00	
Professional Support (1 Incident)			\$245.00	1		\$245.00
				Subtotal	\$96,038.00	\$245.00
Client Hardware						
Dell PowerEdge SC 1430, 2.33GHZ/4MB,1333 FSB	223-3196	1	910.00	1	\$910.00	\$492.00
Additional processor, E5345,2X4MB,2.33GHZ,1333FSB	311-7774	1	749.00	1	\$749.00	
2GB,667MHz,(2X2GB),2R,FBD	311-6152	1	\$368.00	1	\$368.00	
80GB,SATA,1IN,7.2K RPM,HD ,7.2K	341-3757	1	\$99.00	1	\$99.00	
B.COM NetX 5721 ,Gb,ETHERNET,NIC	430-1496	1	\$59.00	1	\$59.00	
				Subtotal	\$2,185.00	\$492.00
Client Software						
Windows Server 2003 Enterprise x64 Server **	P72-01684	2	\$2,334.00	1	\$2,334.00	
				Subtotal	\$2,334.00	\$0.00
Infrastructure						
PowerConnect 2216, 16port Switch	222-2259	1	\$69.00	1	\$69.00	
1M SAS Cable MegaRAID SAS 8888ELP	HI-MS-1MSB	3	\$34.10	12	\$409.20	
2M SAS Cable, MD1000	310-7083	1	\$40.00	12	\$480.00	
				Subtotal	\$958.20	\$0.00
				Other Discounts*	(\$9,746.65)	
				Total	\$290,287.46	\$41,069.00

Notes:
 No 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=eViz, NIO = Not Immediately Orderable
 Pricing may be verified by calling 1-800-BUY-DELL and referencing quote # 438230115 as a complex quote.
Audited by Lorna Livingtree, Performance Metrics Inc.

Three-Year Cost of Ownership:	\$331,357	USD
TPC-E Throughput:	451.29	tpsE
Price/Performance:	\$734.25	tpsE/USD

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				
Reported Throughput: 451.29 tpsE		Configured Customers: 240,000		
Response Times (in seconds)	Minimum	Average	90th%tile	Maximum
Broker-Volume	0.00	0.04	0.07	1.37
Customer-Position	0.00	0.03	0.06	2.92
Market-Feed	0.00	0.04	0.10	2.88
Market-Watch	0.00	0.03	0.06	0.89
Security-Detail	0.00	0.02	0.03	0.97
Trade-Lookup	0.00	0.52	0.67	1.57
Trade-Order	0.00	0.10	0.15	4.16
Trade-Result	0.00	0.09	0.15	4.02
Trade-Status	0.00	0.03	0.05	1.07
Trade-Update	0.02	0.61	0.72	1.56
Data-Maintenance	0.00	0.19		5.02
Transaction Mix		Transaction Count		Mix %
Broker-Volume		1,592,293		4.900%
Customer-Position		4,224,342		13.000%
Market-Feed		324,934		1.000%
Market-Watch		5,849,159		18.000%
Security-Detail		4,549,451		14.000%
Trade-Lookup		2,599,510		8.000%
Trade-Order		3,282,166		10.100%
Trade-Result		3,249,328		9.999%
Trade-Status		6,174,213		19.000%
Trade-Update		649,812		2.000%
Data-Maintenance		120		
Test Duration and Timings				
Ramp-up Time (hh:mm:ss)			00:22:00	
Measurement Interval (hh:mm:ss)			02:00:00	
Business Recovery Time (hh:mm:ss)			00:48:04	
Total number of Transactions Completed in Measurement Interval			32,495,208	