


		<b>Dell PowerEdge T620</b>		<b>TPC-C Version 5.11</b> <b>TPC Pricing 1.7.0</b>
				Report Date <b>November 24, 2014</b>
Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
<b>\$21,160.12 USD</b>		<b>112,890 tpmC</b>	<b>\$0.19 USD/tpmC</b>	<b>24-Nov-2014</b>
Server Processors/cores/threads	Database Manager	Operating System	Other Software	Number of Users
<b>2/20/40</b> <b>Intel Xeon</b> <b>E5-2670 v2 2.5GHz</b>	<b>SQL</b> <b>Anywhere</b> <b>16</b>	<b>Microsoft Windows</b> <b>2012 Standard</b> <b>x64</b>	<b>Microsoft IIS</b> <b>Microsoft</b> <b>COM+</b>	<b>90,000</b>
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p> <b>PowerEdge T620</b>            2/20/40 2.5GHz            128GB RAM            2 x 2TB 7.2K            5 x 800GB SSD              Windows 2012 Standard            x64            Microsoft IIS            SQL Anywhere 16         </p>  </div>				
<b>System Components</b>		<b>Quantity</b>	<b>Description</b>	
Processors/cores/threads		2/20/40	Intel Xeon E5-2670 v2 2.5GHz 25MB L3 Cache	
Memory		8	16GB RDIMM	
Disk Controller		1	PERC H710	
Disk Drives		2	2TB 7.2Krpm SAS 6Gbps 3.5in Hot-plug	
		5	800GB SSD SATA 3Gbps 2.5in Hot-plug,3.5in HYB	
Total Storage		8TB		



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Description	Part Number	Source	Unit Price	Qty	Price
<b>Client/Server Hardware</b>					
<b>PowerEdge T620</b>					
		2		1	\$15,023.72
PowerEdge T620 Motherboard, TPM	591-BBBN		(included)	1	
Non-Mission Critical: 4-Hour 7x24 On-site Service After Problem Diagnosis, Initial Year	989-9671		(included)	1	
Non-Mission Critical: 4-Hour 7x24 On-site Service After Problem Diagnosis, 2 Year Extended	990-0311		(included)	1	
Broadcom 5720 DP 1Gb Network Interface Card	430-4423		(included)	1	
iDRAC7 Enterprise	421-5339		(included)	1	
Chassis with up to 8, 3.5" Hard Drives, Tower Configuration	318-2059		(included)	1	
T620 PERC Cable for 3.5in Chassis	331-6124		(included)	1	
Power Saving Dell Active Power Controller	330-5116		(included)	1	
RAID 1 for H710P/H710/H310 (2 HDDs)	342-3954		(included)	1	
PERC H710 Adapter RAID Controller, 512MB NV Cache, Full Height	342-4048		(included)	1	
T620 Heat Sink, 1 Proc, up to 115W	331-5602		(included)	1	
Intel Xeon E5-2670v2 2.5GHz, 25M Cache, 8.0GT/s QPI, Turbo, HT, 10C, 115W, Max Mem 1866MHz	338-BDBG		(included)	1	
T620 Heat Sink, 1 Proc, up to 115W	331-5602		(included)	1	
Intel Xeon E5-2670v2 2.5GHz, 25M Cache, 8.0GT/s QPI, Turbo, HT, 10C, 115W, Max Mem 1866MHz, 2nd Proc	338-BDBV		(included)	1	
16GB RDIMM, 1600MT/s, Low Volt, Dual Rank, x4 Data Width	319-1812		(included)	8	
1600MT/s RDIMMS	331-4424		(included)	1	
2TB 7.2K RPM Near-Line SAS 6Gbps 3.5in Hot-plug Hard Drive	342-2100		(included)	2	
DVD-ROM, SATA, Internal	313-6765		(included)	1	
Casters for PowerEdge Tower Chassis	330-4121		(included)	1	
Dual, Hot-plug, Redundant Power Supply (1+1), 750W	331-4605		(included)	1	
Power Cord, NEMA 5-15P to C13, 15 amp, wall plug, 10 feet / 3 meter	310-8509		(included)	2	
Optical Mouse, Two Buttons, USB, Black	331-0846		(included)	1	
Dell QuietKey Keyboard, No Hot Keys, English, No Palmrest, ESG	331-2254		(included)	1	
Dell 17 Monitor - E1715S	480-ACFR		(included)	1	
Windows Server 2012R2 Standard, Media, FI Standard Ed Downgrade image, Eng	634-BBOZ		(included)	1	
800GB Solid State Drive SATA Read Intensive MLC 3Gbps 2.5in Hot-plug Drive-Limited Warranty, CusKit	342-6080		(included)	5	



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**Client/Server Software**

Microsoft Visual Studio 2013	4	\$499.00	1	\$499.00	
Microsoft Support (1 incident)	3	\$259.00	1	\$259.00	
SQL Anywhere 16 (Workgroup)	1	\$3,240.00	1	\$3,240.00	
SQL Anywhere Support (3yr)	1	\$712.80	3	\$2,138.40	
<b>Total</b>				<b>\$21,160.12</b>	

**Pricing Notes**

- 1) <https://store.sap.com>
- 2) Dell, Inc. - Quote 695609049 (see Appendix D)
- 3) <http://support2.microsoft.com/gp/microsoft-support-options>
- 4) [http://www.microsoftstore.com/store/msusa/en\\_US/pdp/Visual-Studio-Professional-2013/productID.284832200](http://www.microsoftstore.com/store/msusa/en_US/pdp/Visual-Studio-Professional-2013/productID.284832200)

**Three year cost of ownership: \$21,160.12 USD**

**Benchmark rating: 112,890.54 tpmC**

**Price/Performance: \$0.19 USD**

**Benchmark implementation and results independantly audited by Francois Raab of InfoSizing Inc. ([www.sizing.com](http://www.sizing.com))**

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 pricing specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org). Thank you.



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<b>MQTh, computed Maximum Qualified Throughput</b>		<b>112,890.54 tpmC</b>		
<b>Response Times (seconds)</b>				
	<b>Min</b>	<b>Average</b>	<b>90th</b>	<b>Max</b>
New-Order	0.11	0.24	0.58	9.97
Payment	0.11	0.22	0.55	9.64
Order-Status	0.11	0.24	0.56	9.66
Delivery (interactive portion)	0.11	0.11	0.11	4.17
Delivery (deferred portion)	0	0.05	0.08	9.49
Stock-Level	0.11	0.23	0.53	9.59
Menu	0.11	0.11	0.11	4.64
<b>Transaction Mix</b>				
	<b>Percent</b>	<b>Number</b>		
New-Order	44.96%	13,546,865		
Payment	43.01%	12,959,244		
Order-Status	4.01%	1,208,187		
Delivery	4.01%	1,208,207		
Stock-Level	4.01%	1,208,223		
<b>Keying Times (seconds)</b>				
	<b>Min</b>	<b>Average</b>	<b>Max</b>	
New-Order	18	18.08	26.75	
Payment	3.01	3.06	11.75	
Order-Status	2.01	2.06	10.75	
Delivery	2.01	2.06	10.75	
Stock-Level	2.01	2.06	10.75	
<b>Think Times (seconds)</b>				
	<b>Min</b>	<b>Average</b>	<b>Max</b>	
New-Order	0.02	12.12	128.25	
Payment	0.02	12.11	127.83	
Order-Status	0.02	10.1	100.51	
Delivery	0.02	5.1	54.17	
Stock-Level	0.02	5.1	55.79	
<b>Test Duration</b>				
Ramp-up time				10 min
Measurement Interval				120 min
Checkpoints in Measurement Interval				4
Checkpoint interval				29.5 min
Number of transactions (all types) completed during Measurement Interval				30,130,726