	<h1>Dell PowerEdge R7515</h1>		TPCx-V	2.1.5
			TPC Pricing	2.4.0
			Report Date	Sep. 17, 2019
Availability Date	TPCx-V Throughput	Price/Performance	Total System Cost	
<b>September 17, 2019</b>	<b>1,520.00 tpsV</b>	<b>\$35.50 USD / tpsV</b>	<b>\$53,946 USD</b>	


System Under Test Configuration Overview

Virtualization Software	Guest VM OS	Processor Description	Memory Size
VMware vSphere 6.7	Red Hat Enterprise Linux 7.6	AMD EPYC 7742 2.25GHz, 256MB L3	512 GB



- 1x Dell PowerEdge R7515 with:**
- 1x AMD EPYC 7742 2.25 GHz (1 Procs/64 Cores/128 Threads)
  - 16x 32GB DDR4 3200 MHz RDIMM
  - 16x Dell 1.92TB SATA SSD (DATA)
  - 1x Dell 1TB NVMe (OS)
  - 1x Dell PERC H740P Mini RAID controller
  - 1x Broadcom Gigabit Ethernet BCM5720 (Embedded NIC)

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					TPC Pricing		2.4.0
					Report Date	Sep. 17, 2019	
Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
<b>HARDWARE COMPONENTS</b>							
<b>PowerEdge R7515 Server</b>	[210-ASVQ]	1	\$58,196.00	1	\$58,196.00		
No Trusted Platform Module	[461-AADZ]	1		1			
Chassis with up to 24x2.5" Drives	[379-BDTF]	1		1			
SAS/SATA/NVMe Capable Backplane	[379-BDSW]	1		1			
Chassis with up to 24 x 2.5" Hard Drives Including Max of 12 NVME Drives	[321-BERS]	1		1			
PowerEdge R7515 Shipping	[340-CMZG]	1		1			
PowerEdge R7515 Shipping Material,DAO w/CCC Marking	[340-CODN], [343-BBNT]	1		1			
AMD EPYC 7742 2.25GHz, 64C/128T, 256M Cache (225W) DDR4-3200	[338-BSWN]	1		1			
Standard Heatsink	[412-AASE]	1		1			
3200MT/s RDIMMs	[370-AEVR]	1		1			
Performance Optimized	[370-AAIP]	1		1			
32GB RDIMM, 3200MT/s, Dual Rank	[370-AEVN]	1		16			
C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed)	[780-BCDS]	1		1			
PERC H740P RAID Controller, 8Gb NV Cache, Minicard	[405-AAMS]	1		1			
1.92TB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 3504 TBW	[400-AXSD]	1		16			
Dell 1TB, NVMe, Read Intensive Express Flash, 2.5 SFF Drive, U.2, P4510 with Carrier	[400-BELY]	1		1			
No Media Required	[605-BBFN]	1		1			
iDRAC9, Express X5	[385-BBOU]	1		1			
iDRAC Group Manager, Enabled	[379-BCQV]	1		1			
iDRAC,Legacy Password	[379-BCSG]	1		1			
Riser Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot	[330-BBNL]	1		1			
No Internal Optical Drive for x10 or greater HDD Chassis	[429-AAIQ]	1		1			
High Performance Fan	[750-AAWT]	1		1			
Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	[450-ADWM]	1		1			
NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	[450-AALV]	1		2			
No Bezel	[350-BBWQ]	1		1			
No Quick Sync	[350-BBKU]	1		1			
Performance BIOS Setting	[384-BBBL]	1		1			
UEFI BIOS Boot Mode with GPT Partition	[800-BBDM]	1		1			
No Rack Rails or Cable Management Arm	[770-BBBS]	1		1			
No Systems Documentation, No OpenManage DVD Kit	[631-AACK]	1		1			
No Installation	[900-9997]	1		1			
Keyboard and Optical Mouse, USB, Black	[570-AAKV], [580-ADJC]	1		1			
ProSupport and 4Hr Mission Critical, 36 Month(s)	[865-BBNB]	1	\$6,982.82	1		\$6,982.82	
Dell E2417H 24 Monitor	[210-AIWG]	1	\$169.99	3	\$509.97		
<b>HARDWARE COMPONENTS</b>				<b>Subtotal</b>	\$58,705.97	\$6,982.82	
(continued on the next page)							


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		TPC Pricing	2.4.0
		Report Date	Sep. 17, 2019

(continued from the previous page)

Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
<b>SOFTWARE COMPONENTS</b>							
VMware vSphere 6 Standard for 1 processor		2	\$995.00	1	\$995.00		
3 year VMware vSphere Standard support		2	\$852.72	1		\$852.72	
Red Hat Enterprise Linux,1-2 SKT,Unlimited VMs, 3 Year Subs/Lic,High Av ailability Add- On	[528- BDXY] [822-8493]	1	\$5,462	1	\$5,462.00		
Red Hat Enterprise Linux,1-2S,3yr Premium Subscription, Virtual Datacenters	[605-BBHQ]	1	\$8,999	1	\$8,999.00		
<b>SOFTWARE COMPONENTS</b>					<b>Subtotal</b>	\$15,456.00	\$852.72
<b>Total</b>						<b>\$74,161.97</b>	<b>\$7,835.54</b>
Large Purchase Discount (35%)*						-25,608.44	-2,443.99

Pricing: 1 = Dell; 2 = VMware	<b>Three-Year Cost of Ownership:</b>	<b>\$53,946</b>
* Discount applies to all line items where Key = 1. Discount based upon total system cost as purchased by a regular customer.	<b>TPCx-V Throughput:</b>	<b>1,520.00</b>
<b>Audited by Doug Johnson, InfoSizing</b>	<b>\$ USD/tpsV:</b>	<b>\$35.50</b>

*Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated Line Items. 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 Line Items. For complete details, see the pricing section of the TPC Benchmark Standard. 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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					TPC Pricing	2.4.0
					Report Date	Sep. 17, 2019
Guest VM Details						
Database Manager	VM Memory (Total)	vCPUs (Total)	DB Initial Size	Configured Customers	Active Customers	
PostgreSQL 10.6	486.5 GiB	198	10,124.54 GB	760,000	760,000	
Transaction Response Times (in seconds)						
Transaction Type		Min	Avg	90 <sup>th</sup> %	Max	
Broker-Volume		0.001	0.006	0.011	1.310	
Customer-Position		0.001	0.012	0.023	1.616	
Market-Watch		0.000	0.008	0.013	1.662	
Security-Detail		0.002	0.018	0.032	1.258	
Trade-Lookup		0.001	0.059	0.094	1.430	
Trade-Order		0.001	0.018	0.031	3.717	
Trade-Result		0.002	0.025	0.043	1.009	
Trade-Status		0.001	0.007	0.013	1.322	
Trade-Update		0.006	0.098	0.145	1.005	
Data-Maintenance		0.001	0.009	0.017	0.085	
Market-Feed		0.001	0.005	0.010	0.231	
Transaction Mix						
Transaction Type		Transaction Count		Mix Percentage		
Broker-Volume		4,285,576		3.900%		
Customer-Position		16,483,230		15.001%		
Market-Watch		18,680,775		17.000%		
Security-Detail		17,582,078		16.001%		
Trade-Lookup		9,889,871		9.000%		
Trade-Order		11,098,605		10.100%		
Trade-Result		10,985,626		9.997%		
Trade-Status		19,779,549		18.000%		
Trade-Update		1,098,936		1.000%		
Data-Maintenance		960		N/A		
Market-Feed		57,600		N/A		
Transaction Total				109,884,246		
Measurement Interval				02:00:00		
Business Recovery Time				00:10:12		
Redundancy Level Details				Redundancy Level 1 (via RAID 10)		