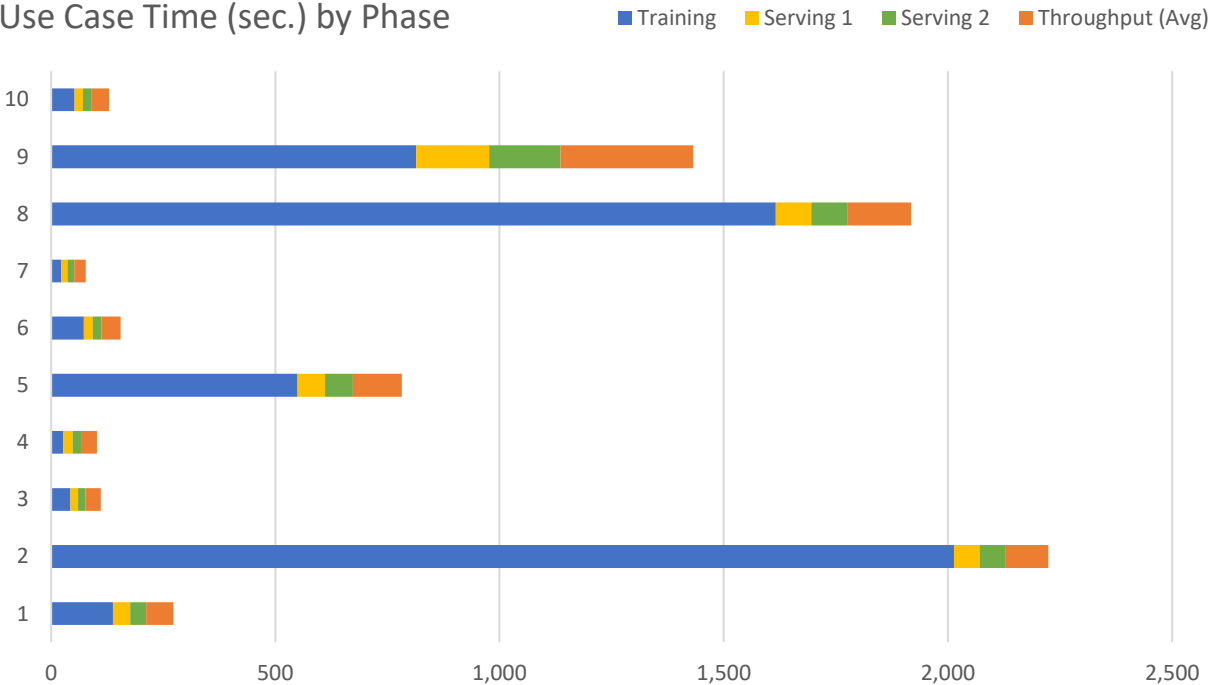

		<h1>PowerEdge R6625</h1>		TPCx-AI 1.0.2 TPC Pricing 2.8.0 Report Date Nov. 10, 2022																																																							
TPCx-AI Performance 868.49 AIUCpm@100	Total System Cost \$309,091 USD	Price/Performance \$355.90 USD/AIUCpm@100	Availability Date February 22, 2023																																																								
Framework Cloudera SEL Data Platform Private Cloud Base Edition	Operating System Red Hat Enterprise Linux 8.6	Other Software N/A	Scale Factor 100	Streams 9																																																							
<h3>Use Case Time (sec.) by Phase</h3>  <table border="1"> <caption>Approximate Use Case Time (sec.) by Phase</caption> <thead> <tr> <th>Phase</th> <th>Training (sec)</th> <th>Serving 1 (sec)</th> <th>Serving 2 (sec)</th> <th>Throughput (Avg) (sec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>2</td><td>2000</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>3</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>4</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>5</td><td>550</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>6</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>7</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>8</td><td>1650</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>9</td><td>800</td><td>150</td><td>150</td><td>150</td></tr> <tr><td>10</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> </tbody> </table>					Phase	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (Avg) (sec)	1	100	50	50	50	2	2000	50	50	50	3	50	50	50	50	4	50	50	50	50	5	550	50	50	50	6	50	50	50	50	7	50	50	50	50	8	1650	50	50	50	9	800	150	150	150	10	50	50	50	50
Phase	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (Avg) (sec)																																																							
1	100	50	50	50																																																							
2	2000	50	50	50																																																							
3	50	50	50	50																																																							
4	50	50	50	50																																																							
5	550	50	50	50																																																							
6	50	50	50	50																																																							
7	50	50	50	50																																																							
8	1650	50	50	50																																																							
9	800	150	150	150																																																							
10	50	50	50	50																																																							
Physical Storage / Scale Factor 787.20	Scale Factor / Physical Memory 0.04	Main Data Redundancy Model Replication 3, RAID 1																																																									
Servers: Total Processors/Cores/Threads	4 8 / 256 / 512																																																										
Server Type	1x PowerEdge R6625 (Primary Node)	3x PowerEdge R6625 (Worker Node)																																																									
Processors	2x AMD EPYC 9354 32-Core Processor GHz	2x AMD EPYC 9354 32-Core Processor GHz																																																									
Memory	384 GiB	768 GiB																																																									
Storage Controller	1x PERC H965i	1x PERC H965i																																																									
Storage Device	2x 240 GB M.2 SSD; 2x 3.84 TB NVMe	2x 240 GB M.2 SSD; 6x 3.84 TB NVMe																																																									
Network Controller	1x Mellanox ConnectX-4, 25GbE, 2-port	1x Mellanox ConnectX-4, 25GbE, 2-port																																																									
Connectivity	1x Mellanox SN2400 100/25 GbE (Switch)																																																										

	<h1>PowerEdge R6625</h1>	TPCx-AI	1.0.2
		TPC Pricing	2.8.0
		Report Date	Nov. 10, 2022

Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
Hardware						
PowerEdge R6625 Server - Primary Node	210-ATCF	1	\$67,602.00	1	\$67,602.00	
2.5 Chassis	379-BDTF	1	0	1		
NVMe Backplane	379-BDSX	1	0	1		
Trusted Platform Module 2.0 V3	461-AAIG	1	0	1		
C03-03 : 8x U.2 G4 RAID - Low Z (FPERC 12)	321-BIIN	1	0	1		
MOD,PRC,9354,2.7,GOA,32C,XXX,QB	338-CGMZ	1	0	1		
MOD,PRC,9354,2.7,GOA,32C,XXX,QB	338-CGMZ	1	0	1		
Performance Optimized	370-AAIP	1	0	1		
4800MT/s RDIMMs	370-AHCL	1	0	1		
16GB RDIMM, 4800MT/s Single Rank	370-AGZO	1	0	24		
C31, No RAID with NVMe and front PERC	379-BEGI	1	0	1		
PERC H965i with floating brackets for lowz	405-ABDN	1	0	1		
Front PERC Mechanical Parts,rear load	750-ACFQ	1	0	1		
No Hard Drive	400-ABHL	1	0	1		
3.84TB Enterprise NVMe Read Intensive AG Drive U.2 Gen4 with carrier	400-BKGL	1	0	2		
Performance BIOS Settings	384-BBBL	1	0	1		
UEFI BIOS Boot Mode with GPTPartition	800-BBDM	1	0	1		
High Performance Fan for CPUgreater than or equal to 180W(2 CPU)	750-ADJI	1	0	1		
Dual, Hot-plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode, NAF	450-AIQX	1	0	2		
Power Cord - C13, 3M, 125V, 15A (North America, Guam, North Marianas, Philippines, Samoa, Vietnam)	450-AALV	1	0	1		
Riser Config 2, 1 x 16 LP PCIe slot (CPU1), 2 x 16 LP PCIe slot (CPU2)	330-BBNR	1	0	1		
PowerEdge R6625 Motherboard	384-BCWP	1	0	1		
Broadcom 5720 Dual Port 1GbE Optional LOM	540-BDKD	1	0	1		
Mellanox Technologies MT27710 Family [ConnectX-4 Lx], 25 GbE	540-BBVV	1	0	1		
iDRAC9,Enterprise 15G	385-BBOT	1	0	1		
Dell EMC Luggage Tag (x8 or x10 chassis)	350-BBXP	1	0	1		
Standard Bezel	325-BCHH	1	0	1		
No Quick Sync	350-BBXM	1	0	1		
iDRAC,Factory Generated Password	379-BCSF	1	0	1		
Red Hat Enterprise Linux 8.6 (Ootpa), kernel 4.18.0-372.9.1.el8.x86_64	605-BBFL	1	0	1		
ReadyRails Sliding Rails Without Cable Management Arm or Strain Relief Bar	770-BECD	1	0	1		
Cable Management Arm	770-BDMT	1	0	1		
BOSS-S2 controller card + with 2 M.2 240GB (RAID 1)	403-BCMG	1	0	1		
No Systems Documentation, NoOpenManage DVD Kit	631-AACK	1	0	1		
PowerEdge R6625 Shipping Material 4	340-COXQ	1	0	1		
PowerEdge R6625 CCC Marking, No CE Marking	389-DTIQ	1	0	1		
US Order	332-1286	1	0	1		
Dell Hardware Limited Warranty Plus On-Site Service	828-3901	1	\$200.00	1		\$200.00
ProSupport Mission Critical:4-Hour 7x24 On-Site Service with Emergency Dispatch 3 Years	828-3855	1	\$940.00	1		\$940.00
ProSupport Mission Critical:7x24 HW / SW Technical Support and Assistance 3 Years	828-3847	1	\$1,816.00	1		\$1,816.00

(continued on the next page)


	<h1>PowerEdge R6625</h1>	TPCx-AI 1.0.2
		TPC Pricing 2.8.0
		Report Date Nov. 10, 2022

(continued from the previous page)

Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
PowerEdge R6625 Server - Worker Nodes	210-ATCF	1	\$103,571.00	3	\$310,713.00	
2.5 Chassis	379-BDTF	1	0	3		
NVMe Backplane	379-BDSX	1	0	3		
Trusted Platform Module 2.0 V3	461-AAIG	1	0	3		
C03-03 : 8x U.2 G4 RAID - Low Z (FPERC 12)	321-BIIN	1	0	3		
MOD,PRC,9354,2.7,GOA,32C,XXX,QB	338-CGMZ	1	0	3		
MOD,PRC,9354,2.7,GOA,32C,XXX,QB	338-CGMZ	1	0	3		
Performance Optimized	370-AAIP	1	0	3		
4800MT/s RDIMMs	370-AHCL	1	0	3		
32GB RDIMM, 4800MT/s Dual Rank	370-AGZP	1	0	72		
C31, No RAID with NVMe and front PERC	379-BEGI	1	0	3		
PERC H965i with floating brackets for lowz	405-ABDN	1	0	3		
Front PERC Mechanical Parts,rear load	750-ACFQ	1	0	3		
No Hard Drive	400-ABHL	1	0	3		
3.84TB Enterprise NVMe Read Intensive AG Drive U.2 Gen4 with carrier	400-BKGL	1	0	18		
Performance BIOS Settings	384-BBBL	1	0	3		
UEFI BIOS Boot Mode with GPTPartition	800-BBDM	1	0	3		
High Performance Fan for CPUgreater than or equal to 180W(2 CPU)	750-ADJI	1	0	3		
Dual, Hot-plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode, NAF	450-AIQX	1	0	3		
Power Cord - C13, 3M, 125V, 15A (North America, Guam, North Marianas, Philippines, Samoa, Vietnam)	450-AALV	1	0	6		
Riser Config 2, 1 x 16 LP PCIe slot (CPU1), 2 x 16 LP PCIe slot (CPU2)	330-BBNR	1	0	3		
PowerEdge R6625 Motherboard	384-BCWP	1	0	3		
Broadcom 5720 Dual Port 1GbE Optional LOM	540-BDKD	1	0	3		
Mellanox Technologies MT27710 Family [ConnectX-4 Lx], 25 GbE	540-BBVV	1	0	3		
iDRAC9,Enterprise 15G	385-BBOT	1	0	3		
Dell EMC Luggage Tag (x8 or x10 chassis)	350-BBXP	1	0	3		
Standard Bezel	325-BCHH	1	0	3		
No Quick Sync	350-BBXN	1	0	3		
iDRAC,Factory Generated Password	379-BCSF	1	0	3		
Red Hat Enterprise Linux 8.6 (Ootpa), kernel 4.18.0-372.9.1.el8.x86_64	605-BBFL	1	0	3		
ReadyRails Sliding Rails Without Cable Management Arm or Strain Relief Bar	770-BECD	1	0	3		
Cable Management Arm	770-BDMT	1	0	3		
BOSS-S2 controller card + with 2 M.2 240GB (RAID 1)	403-BCMG	1	0	3		
No Systems Documentation, NoOpenManage DVD Kit	631-AACK	1	0	3		
PowerEdge R6625 Shipping Material 4	340-COXQ	1	0	3		
PowerEdge R6625 CCC Marking, No CE Marking	389-DTIQ	1	0	3		
US Order	332-1286	1	0	3		
Dell Hardware Limited Warranty Plus On-Site Service	828-3901	1	\$200.00	3		\$600.00
ProSupport Mission Critical:4-Hour 7x24 On-Site Service with Emergency Dispatch 3 Years	828-3855	1	\$940.00	3		\$2,820.00
ProSupport Mission Critical:7x24 HW / SW Technical Support and Assistance 3 Years	828-3847	1	\$1,816.00	3		\$5,448.00
Keyboard and Optical Mouse, USB, Black, English	570-AAKV, 580-ADJC	1	\$12.00	1	\$12.00	
Dell 24 Monitor	210-AIWG	1	\$169.99	1	\$169.99	
Mellanox MSN2410-CB2F 25GbE/100GbE Switch	920-9N112-00F7-0X2	2	\$14,242.00	1	\$14,242.00	
NVIDIA ENT Business Critical Support Services for SN2000 - 12 Months	780-C20N0Z +P2CMI12	2	\$1,140.00	1		\$1,140.00
				Subtotal	\$392,738.99	\$12,964.00
Software						
Cloudera SEL Data Platform Private Cloud Base Edition Annual Subscription per node Business Level Support AB352445		1	\$15,384.62	4		\$61,538.48
				Subtotal	\$0.00	\$61,538.48
Large Purchase Discount (35%)*					-\$132,473.95	-\$25,676.87
				Total	\$260,265.04	\$48,825.61

Pricing: 1 = Dell; 2 = Nvidia	Total System Cost (USD):	\$309,091
* Discount applies to all line items where Key = 1. Discount based upon total system cost as purchased by a regular customer.	AIUCpm@100:	868.49
Audited by Doug Johnson, InfoSizing	\$/AIUCpm@100:	\$355.90

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. Thank you.

	<h2 style="text-align: center;">PowerEdge R6625</h2>		TPCx-AI	1.0.2
			TPC Pricing	2.8.0
			Report Date	Nov. 10, 2022
<u>Numerical Quantities</u>				
AIUCpm@100	868.49	T_{Load}	314.20	
Scale Factor	100	T_{LD}	314.20	
Streams	9	T_{PTT}	170.45	
Kit Version	1.0.2	T_{PST1}	35.37	
Execution Status	Pass	T_{PST2}	35.42	
Accuracy Status	Pass	T_{PST}	35.42	
		T_{TT}	12.01	
Test Times				
Overall Run Start Time	2022-10-28 23:26:16.411			
Overall Run End Time	2022-10-29 01:51:40.373			
Overall Run Elapsed Time	8,723.962			
Load Test Start Time	2022-10-28 23:33:33.068			
Load Test End Time	2022-10-28 23:38:49.333			
Load Test Elapsed Time	316.265			
Power Training Start Time	2022-10-28 23:38:49.334			
Power Training End Time	2022-10-29 01:08:08.741			
Power Training Elapsed Time	5,359.407			
Power Serving 1 Start Time	2022-10-29 01:08:08.743			
Power Serving 1 End Time	2022-10-29 01:16:28.456			
Power Serving 1 Elapsed Time	499.713			
Power Serving 2 Start Time	2022-10-29 01:16:28.457			
Power Serving 2 End Time	2022-10-29 01:24:45.222			
Power Serving 2 Elapsed Time	496.765			
Scoring Start Time	2022-10-29 01:28:44.798			
Scoring End Time	2022-10-29 01:33:28.795			
Scoring Elapsed Time	283.997			
Throughput Start Time	2022-10-29 01:33:28.799			
Throughput End Time	2022-10-29 01:51:40.373			
Throughput Elapsed Time	1,091.574			



PowerEdge R6625

TPCx-AI 1.0.2
 TPC Pricing 2.8.0
 Report Date Nov. 10, 2022

Numerical Quantities (continued)

Use Case Times & Accuracy

Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (avg)	Accuracy
UC01	137.870	38.369	35.873	60.275	0.000
UC02	2,013.347	57.043	58.527	94.730	0.394
UC03	43.034	16.747	16.970	34.070	3.909
UC04	27.216	21.109	20.599	33.473	0.694
UC05	549.776	61.344	62.142	109.071	0.038
UC06	72.815	20.078	19.546	42.207	0.204
UC07	23.066	13.662	14.485	26.081	1.307
UC08	1,615.781	79.722	81.280	141.162	0.755
UC09	813.859	163.349	158.454	296.504	0.990
UC10	52.425	18.085	18.708	40.255	0.816

Use Case Serving Times (sec.)

