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Longue	Tla i sa la f	21.	CI		-0 V/0	TPCx-AI	2.0.0
Lenovo	Think	syste	m Si	K 0:	50 V3	TPC Pricing Report Date Se	2.9.0 ep. 05. 2024
TPCx-Al Performance	Total Syster	Total System Cost		e/Perf	ormance	Availability Date	
527.30 AIUCpm@3		\$121,475 USD		\$230 D/AIU).38 Cpm@3	September 5, 2024	
Framework	Operating S	Operating System			oftware	Scale Factor	Streams
Anaconda Business	Red Hat Ent	Red Hat Enterprise Linux 8.9 (Ootpa)		N/	'A	3	140
Use Case Time (sec	Use Case Time (sec.) by Phase ■ Training ■ Serving 1 ■ Serving 2 ■ Throughput (Avg)				ut (Avg)		
10							
9							
8							
7							
6							
5							
4							
3							
2							
1							
0 200 40	0 600	300 1,0	000 1,2	200	1,400 1,6	00 1,800	2,000
Physical Storage / Scale Factor Scale Factor / Physical Storage / Scale Factor / Physical Scale Factor / Physical Storage / Scale Factor / Physical Storage / Scale Factor / Physical Storage / Scale Factor / Physical Scale Factor		·			ta Redundancy Model RAID1		
Servers: Total Processors/Cores/Thr	1 reads 2/96/	1					
Server Type		1x ThinkSystem SR650 V3 (Server)					
Processors Memory	2x INTEL(R) XEON(R) PLATINUM 8558P 512 GiB						
Storage Controller 1x M.2 SATA/x4 NVMe 2-Bay Adapter							
Storage Device 2x 960 GB NVMe (VROC RAID1)							
Network Controller 1x Intel E810-DA1 12/25 GbE SFP28 2-Port							

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Lenovo. ThinkSystem SR650 V3

TPCx-AI 2.0.0 TPC Pricing 2.9.0

Report Date Sep. 05, 2024

Description	Part Number	Source	List Price	Qty E	xtended Price	1-Yr. Maintenance
Server Hardware						
ThinkSystem SR650 V3 Configure-To-Order, includes:	7D76CTO1WW	1	\$68,833	1	\$68,833	
ThinkSystem V3 2U 24x2.5" Chassis	BLKK			1		
Intel Xeon Platinum 8558P 48C 350W 2.7GHz Processor	BYWA			2		
ThinkSystem 32GB TruDDR5 Performance+ 5600MHz (2Rx8) RDIMM	BZ4U			16		
ThinkSystem M.2 SATA/x4 NVMe 2-Bay Adapter	BM8X			1		
Intel VROC (VMD NVMe RAID) Premium for M.2	BS7N			1		
ThinkSystem M.2 7450 PRO 960GB Read Intensive NVMe PCIe 4.0 x4 NHS SSD	BKSR			2		
ThinkSystem Intel E810-DA2 10/25GbE SFP28 2-Port OCP Ethernet Adapter	BCD4			1		
ThinkSystem V3 2U x16/x16/E PCle Gen4 Riser1 or 2	BLKM			1		
ThinkSystem 1800W 230V Platinum Hot-Swap Gen2 Power Supply v2	BMUF			1		
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	6263			1		
ThinkSystem 2U V3 Performance Fan Module	BLL6			6		
ThinkSystem Toolless Friction Rail v2	BK7W			1		
ThinkSystem 2U V3 EIA Latch Standard	BQQ2			1		
2m Passive DAC SFP+ Cable	A51P			1		
ThinkSystem SR650 V3 MB	BLL0			1		
RAID Configuration	2302			1		
ThinkSystem 2U V3 EIA right with FIO	BQQ6			1		
ThinkSystem 2U MS Air Duct Filler(For 2U Gap)	B8MP			2		
ThinkSystem 2U Main Air Duct	BP46			1		
MS 2FH Riser Filler	BC4X			1		
ThinkSystem 2U MS 3FH Riser 1&2 Cage w/Label1	BPKD			1		
ThinkSystem 2U MS 3FH Riser Filler	B8MM			1		
ThinkSystem SR650 V3 Firmware and Root of Trust Security Module v2	BYQL			1		
Red Hat Linux w/Lenovo Support	7S0FCTO1WW			1		
RHEL Server Physical or Virtual Node, 2 Skt Premium Subscription w/Lenovo Support 1Yr	SON8			1		
Premier Essential - 3Yr 24x7 4Hr Resp + YDYD SR650 V3	5PS7B07067	1	\$1,829	1		\$1,829
•				ubtotal	\$68,833	\$1,829
Server Software						
Anaconda Business Subscription (1 year)		2	\$50,000	1	\$50,000	
Anaconda Business Premium Support, including 24x7 support		2	\$35,000	1		\$35,000
			S	ubtotal	\$50,000	\$35,000
Infrastructure						
ThinkSystem Pref. Pro II USB Keyboard - US English	7ZB7A05522	1	\$29	1	\$29	
ThinkSystem Optical Wheel Mouse - USB	7M57A04698	1	\$39	1	\$39	
Lenovo D22e-20 21.45-inch FHD Monitor	66D2KCC6US	1	\$80	1	\$80	
			S	ubtotal	\$148	\$0
			T	otal	\$118,981	\$36,829
Dollar Volume Discount (See Note 1)	48.49%	1			\$34,335	. ,

Pricing: 1 = Lenovo; 2 = Anaconda

* Discount applies to all line items where Pricing=1; pricing is for these or similar quantities. Discounts for similarly sized configurations will be similar to what is quoted here, but may vary based on the specific components priced.

\$121,475 **Total System Cost (USD):**

> AIUCpm@3: 527.30

\$/AIUCpm@3: \$230.38

Audited by Doug Johnson, InfoSizing

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.

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Lenovo. ThinkSystem SR650 V3

TPCx-AI 2.0.0 TPC Pricing 2.9.0 Report Date Sep. 05, 2024

Numerical Quantities

AIUCpm@3	527.30	T_Load	1.16
Scale Factor	3	T_LD	1.16
Streams	140	T_{PTT}	51.82
		T_{PST1}	6.10
Kit Version	1.0.3.1	T_{PST2}	6.16
Execution Status	OK	T_{PST}	6.16
Accuracy Status	Pass	T_TT	0.37

Test Times

Overall Run Start Time Overall Run End Time Overall Run Elapsed Time	2024-08-06 19:13:47.925 2024-08-06 20:15:25.841 3,697.916
Load Test Start Time Load Test End Time Load Test Elapsed Time	2024-08-06 19:16:35.263 2024-08-06 19:16:36.442 1.179
Power Training Start Time Power Training End Time Power Training Elapsed Time	2024-08-06 19:16:36.445 2024-08-06 19:57:00.335 2,423.890
Power Serving 1 Start Time Power Serving 1 End Time Power Serving 1 Elapsed Time	2024-08-06 19:57:00.338 2024-08-06 20:00:05.448 185.110
Power Serving 2 Start Time Power Serving 2 End Time Power Serving 2 Elapsed Time	2024-08-06 20:00:05.451 2024-08-06 20:03:11.984 186.533
Scoring Start Time Scoring End Time Scoring Elapsed Time	2024-08-06 20:04:29.415 2024-08-06 20:06:47.478 138.063
Throughput Start Time Throughput End Time Throughput Elapsed Time	2024-08-06 20:06:47.501 2024-08-06 20:15:25.836 518.335

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Lenovo ThinkSystem SR650 V3

TPCx-AI 2.0.0 TPC Pricing 2.9.0

Report Date Sep. 05, 2024 Numerical Quantities (continued) Use Case Times & Accuracy Use Case Training (sec) Serving 1 (sec) Serving 2 (sec) Throughput (avg) Accuracy UC01 34.608 3.461 3.772 11.234 0.000 UC02 577.798 8.746 8.739 24.992 0.452 UC03 12.417 3.506 43.201 3.936 3.877 UC04 33.175 5.548 5.425 19.224 0.700 UC05 249.976 4.122 16.763 4.177 0.050 UC06 1.443 0.713 0.729 3.968 0.488 UC07 4.285 1.917 0.957 1.907 6.065 UC08 1,381.207 115.259 116.541 269.872 0.761 UC09 60.194 36.785 36.722 103.243 1.000 37.918 UC10 4.484 4.605 15.732 0.816 Use Case Serving Times (sec.) ■ Serving 1 ■ Serving 2 ■ Throughput (Avg) 300 250 200 150 100 50 3 8 10