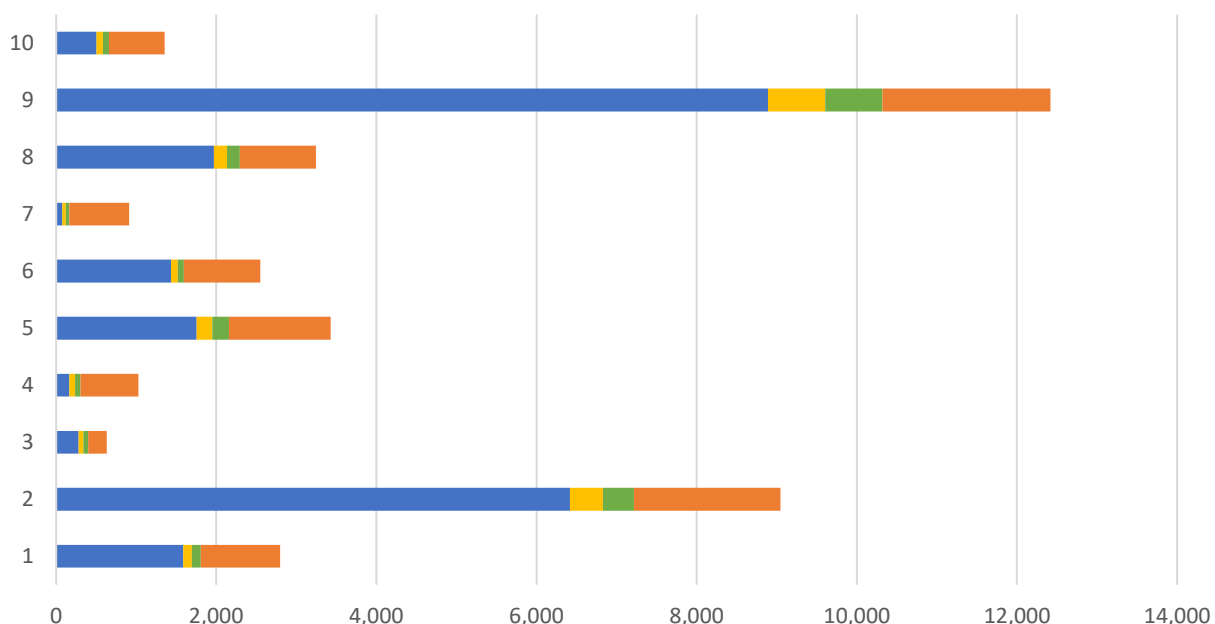



	<h1 style="text-align: center;">KR580S2</h1>		TPCx-AI	1.0.1
			TPC Pricing	2.8.0
			Report Date	Apr. 18, 2022
TPCx-AI Performance	Total System Cost	Price/Performance	Availability Date	
1,205.43 AIUCpm@1000	₩456,752,000 KRW	₩378,912.09 KRW/AIUCpm@1000	April 18, 2022	
Framework	Operating System	Other Software	Scale Factor	Streams
CDP Private Cloud Base Edition Business Version 7.1	Red Hat Enterprise Linux Server 7.8 & 7.9	N/A	1,000	10


Use Case Time (sec.) by Phase


■ Training ■ Serving 1 ■ Serving 2 ■ Throughput (Avg)



Physical Storage / Scale Factor	Scale Factor / Physical Memory	Main Data Redundancy Model
135.68	0.16	HDFS Replication Factor 3
Servers:	3	
Total Processors/Cores/Threads	6 / 240 / 480	
Server Type	1x KR580S2 (Master/Worker)	2x KR580S2 (Master/Worker)
Processors	2x Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz GHz	2x Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz GHz
Memory	2,048 GiB	2,048 GiB
Storage Controller	1x RAID Controller	1x RAID Controller
Storage Device	8x 3.84 TB SATA SSD; 2x 3.2 TB NVMe SSD	12x 3.84 TB SATA SSD; 1x 3.2 TB NVMe SSD
Network Controller	1x 10GbE 2-port	1x 10GbE 2-port
Connectivity	1x ubiQuoss E6200 10GbE (Switch)	

		<h1>KR580S2</h1>			TPCx-AI	1.0.1
					TPC Pricing	2.8.0
					Report Date	Apr. 18, 2022
Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
Server Hardware						
Server01	KR580S2	1	79,670,000	1	79,670,000	
2U-12bay, FH Riser(3slots PCIe Gen4.0x16, x8, x8) x2, 1300W x2, Rail	-	1	(include)	1		
3rd Gen Intel Xeon Scalable Processor Platinum 8380 (40C/80T 2.3GHz, 60MB, 270W)	CD8068904572601	1	(include)	2		
64GB DDR4 3200 ECC LRDIMM Memory	M386A8K40BM2-CTD	1	(include)	32		
Micron 5300PRO SATA SSD 3.84TB	MTFDDAK3T8TDS-1AW1ZABYY	1	(include)	8		
삼성 PM1735 HH-HL NVMe SSD 3.2TB	MZPLL3T2HMLS	1	(include)	2		
LSI MegaRAID SAS-3 3108	AOC-S3108L-H8IR-LOW P	1	(include)	1		
Intel Corporation Ethernet Controller X710 for 10GbE SFP+	X710DA2	1	(include)	1		
Maintenance - 7x24x4 Care Pack (1-yrs)	-	1	2,000,000	1		2,000,000
Server02, Server03	KR580S2	1	83,800,000	2	167,600,000	
2U-12bay, FH Riser(3slots PCIe Gen4.0x16, x8, x8) x2, 1300W x2, Rail	-	1	(include)	2		
3rd Gen Intel Xeon Scalable Processor Platinum 8380 (40C/80T 2.3GHz, 60MB, 270W)	CD8068904572601	1	(include)	4		
64GB DDR4 3200 ECC LRDIMM Memory	M386A8K40BM2-CTD	1	(include)	64		
Micron 5300PRO SATA SSD 3.84TB	MTFDDAK3T8TDS-1AW1ZABYY	1	(include)	24		
삼성 PM1735 HH-HL NVMe SSD 3.2TB	MZPLL3T2HMLS	1	(include)	2		
LSI MegaRAID SAS-3 3108	AOC-S3108L-H8IR-LOW P	1	(include)	2		
Intel Corporation Ethernet Controller X710 for 10GbE SFP+	X710DA2	1	(include)	2		
Maintenance - 7x24x4 Care Pack (1-yrs)	-	1	2,000,000	2		4,000,000
				Sub-Total	247,270,000	6,000,000
Network						
ubiQuoss E6200	MSN2700-CS2F	2	20,000,000	1	20,000,000	
Maintenance - 7x24x4 Care Pack (1-yrs)	-	2	(include)	1		
				Sub-Total	20,000,000	0
Software						
Red Hat Enterprise Linux Server7.8, 7.9	RH00004	3	1,603,000	3	4,809,000	
Maintenance - 7x24x4 Care Pack (1-yrs)	RP-CPS(OS)	3	2,000,000	3		6,000,000
CDP Private Cloud Base Edition - Business Version 7.1	CDP-PVC-BASE-BUS	4	13,020,000	3	39,060,000	
Cloudera Data Platform Compute	COMPUTE	4	130,200	720	93,744,000	
Cloudera Certified Technical Partner Services(1y 7x24x4 Technical Support)	-	4	35,000,000	1		35,000,000
				Sub-Total	137,613,000	41,000,000
Discount						
Red Hat Enterprise Linux Server7.8, 7.9	RH00004	3	623,000	3	1,869,000	
Maintenance - 7x24x4 Care Pack (1-yrs)	RP-CPS(OS)	3	1,000,000	3		3,000,000
				Sub-Total	1,869,000	3,000,000
				Total	406,752,000	50,000,000
Pricing: 1 = KTNF Co., Ltd.; 2 = Digital Seouloa Co., Ltd.; 3 = Rockplace Inc.; 4 = Pngtech Co., Ltd. * Discount applies to all line items where Key = 1. Discount based upon total system cost as purchased by a regular customer.				Total System Cost (KRW): ₩456,752,000 AIUCpm@1000: 1,205.43 ₩/AIUCpm@1000: ₩378,912.09		
Audited by Doug Johnson, InfoSizing						
<i>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.</i>						

	<h1>KR580S2</h1>		TPCx-AI	1.0.1
			TPC Pricing	2.8.0
			Report Date	Apr. 18, 2022
<u>Numerical Quantities</u>				
AIUCpm@1000	1,205.43	T_{Load}	4,405.47	
Scale Factor	1,000	T_{LD}	4,405.47	
Streams	10	T_{PTT}	981.90	
Kit Version	1.0.1	T_{PST1}	128.21	
Execution Status	Pass	T_{PST2}	126.91	
Accuracy Status	Pass	T_{PST}	128.21	
		T_{TT}	110.67	
Test Times				
Overall Run Start Time	2022-03-15 12:37:47.702			
Overall Run End Time	2022-03-16 04:33:59.871			
Overall Run Elapsed Time	57,372.169			
Load Test Start Time	2022-03-15 16:23:30.020			
Load Test End Time	2022-03-15 17:36:58.837			
Load Test Elapsed Time	4,408.817			
Power Training Start Time	2022-03-15 17:36:58.842			
Power Training End Time	2022-03-16 00:01:59.401			
Power Training Elapsed Time	23,100.559			
Power Serving 1 Start Time	2022-03-16 00:01:59.410			
Power Serving 1 End Time	2022-03-16 00:34:36.714			
Power Serving 1 Elapsed Time	1,957.304			
Power Serving 2 Start Time	2022-03-16 00:34:36.726			
Power Serving 2 End Time	2022-03-16 01:07:01.643			
Power Serving 2 Elapsed Time	1,944.917			
Scoring Start Time	2022-03-16 01:13:56.743			
Scoring End Time	2022-03-16 01:29:15.745			
Scoring Elapsed Time	919.002			
Throughput Start Time	2022-03-16 01:29:15.776			
Throughput End Time	2022-03-16 04:33:59.869			
Throughput Elapsed Time	11,084.093			

	<h1>KR580S2</h1>	TPCx-AI	1.0.1
		TPC Pricing	2.8.0
		Report Date	Apr. 18, 2022

Numerical Quantities (continued)

Use Case Times & Accuracy

Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (avg)	Accuracy
UC01	1,585.134	110.808	109.241	993.401	0.000
UC02	6,416.105	412.045	389.851	1,829.666	0.234
UC03	282.508	56.355	61.678	230.471	4.597
UC04	165.502	71.193	68.850	721.433	0.712
UC05	1,754.154	198.239	206.950	1,271.419	0.409
UC06	1,435.558	83.672	77.323	954.890	0.213
UC07	78.657	41.837	42.426	749.092	1.504
UC08	1,969.860	166.086	159.641	948.366	0.749
UC09	8,891.611	712.202	717.599	2,096.334	1.000
UC10	504.945	79.827	77.039	695.468	0.817

Use Case Serving Times (sec.)

