



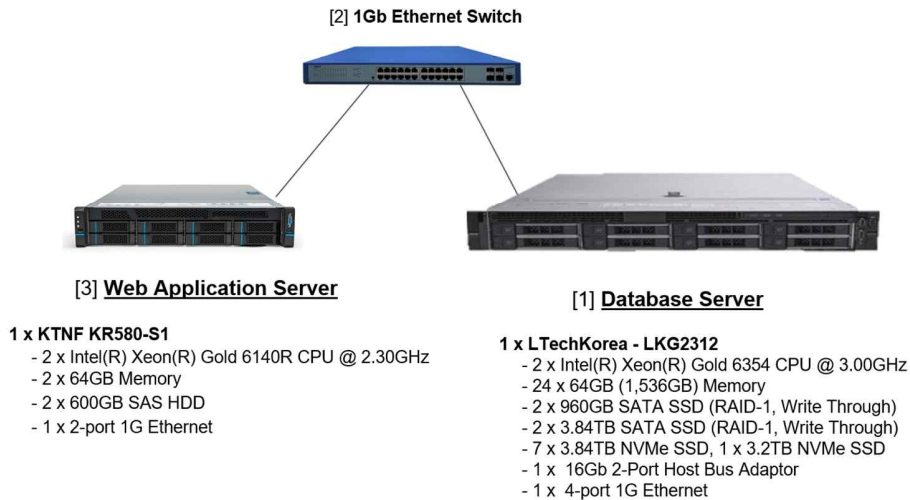
IBM DB2 11.5.8 Advanced Edition on LtechKorea LKG2312

**TPC-C Version 5.11.0
TPC Pricing 2.8.0**

Report Date
25-Sep-2023

Total System Cost	TPC-C Throughput	Price/Performance		Availability Date
₩ 1,351,171,600 (KRW)	279,185 tpmC	4,840 KRW/tpmC		Available Now
Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
2/36/72	IBM DB2 11.5.8 Advanced Edition	RHEL 7.9	JBoss Web Server	220,000

Priced Configuration (LTK)



System Components	DB Server		WAS Server	
	Quantity	Description	Quantity	Description
Processors/Cores/Threads	2/36/72	Intel(R) Xeon(R) Gold 6354 CPU @ 3.00GHz	2/36/72	Intel(R) Xeon(R) Gold 6140 CPU @ 2.30GHz
Memory	24	64 GB	2	64GB
Storage Controller	1	Broadcom / LSI MegaRAID SAS-3 3108	1	Broadcom / LSI MegaRAID SAS-3 3108
Storage Device	2 2 7 1	960GB SAS HDD (Write Through) 3.84TB SAS SSD (Write Through) 3.84TB NVMe SSD (Write Through) 3.2 TB NVMe SSD (Write Through)	2	600GB SAS SSD
Total Storage Capacity		39.68TB		



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Description	Part Number	Source	Unit Price	Qty	Price	3-Yr. Maint. Price
<u>Server Hardware</u>						
DB Server - LTeckKorea(LKG2312)	LKG2312	1	30,180,000	1	30,180,000	
Intel® Xeon® Gold 6354 18C/36T (Up To 3.6Ghz)	CPU	1	(included)	2		
64GB DDR4 Memory	RAM	1	(included)	24		
SSD 960GB, Enterprise	DISK1	1	(included)	2		
SSD 3.84TB, Enterprise	DISK2	1	(included)	2		
SSD 3.2TB NVME SSD	DISK3	1	(included)	1		
SSD 3.84, Enterprise NVMe, U.2, Gen4	DISK4	1	(included)	7		
SAS3108(2GB) 12Gbps Controller	RAID	1	(included)	1		
RJ45 1G 4port	NIC	1	(included)	1		
16Gb/s 2port (include GBIC)	HBA	1	(included)	1		
LKG-2312 Server(power 1600Watt) 3.5/2.5 inch disk bay * 12EA	CHASSIS	1	(included)	1		
3year, 24x7x4hr Onsite Support Service 1	Maintenance	1	(included)	1		
<u>WAS Servers - KTNF(KR580S1)</u>						
WAS Servers - KTNF(KR580S1)	KR580S1	2	16,700,000	1	16,700,000	
Intel® Xeon® Scalable Gold 6140 (2.30Ghz, 18core)	CPU	2	(included)	2		
64GB DDR4 ECC RDIMM Memory	Memory	2	(included)	2		
600GB SAS 12Gb/s 15K RPM (128MB)	HDD	2	(included)	2		
3year, 24x7x4hr Onsite Support Service 1	Maintenance	2	(included)	1		
Server Hardware Sub Total					46,880,000	
<u>Client/Server Software</u>						
Red Hat Enterprise Linux Server Standard 3yrs	RH00004F3	3	4,089,000	2	8,178,000	
RHEL Server Standard Maintenance - 3yrs 24x7x4hrs	RP-CPS(OS)	3	8,000,000	2		16,000,000
Red Hat JBoss Web Server 4-Core Standard 3Year	MW00123F3	3	2,138,000	9	19,242,000	
JBoss Web Server per 4Core 3Year Maintenance	RP-CPS(WAS)	3	12,000,000	9		108,000,000
IBM DB2 Advanced Edition Cartridge for IBM Cloud Pak for Data Virtual Processor Core License + SW Subscription & Support 12 Months (Ver.11.5.8.0)	-	4	128,307,000	36	4,619,052,000	
IBM Db2 License Renewal (2 years)	-	4	189,625,800	2		379,251,600
IBM Db2 Implementaion & Support	-	4	20,000,000	3		60,000,000
Software Sub Total					4,646,472,000	563,251,600

Other Hardware						
DASAN Networks access switch - D2224GP, 24port POE	network switch	5	1,900,000	3	5,700,000	
Other Hardware Sub Total					5,700,000	
Discounts*						
Red Hat OS Discount					-3,378,000	-12,000,000
Red Hat JBoss Discount					-7,902,000	-54,000,000
SW Discount - DB2					-3,833,852,000	0
Discounts Sub Total					-3,845,132,000	-66,000,000
Total					853,920,000	497,251,600

Pricing Notes 1) LTechKorea, Inc. 4) D.BtoE Inc. 2) KTNF, Inc. 5) DASAN Networks 3) Rockplace Inc.		Three year cost of ownership KRW(W): 1,351,171,600 TPC-C throughput: 279,185 tpmC Price/Performance: 4,840 W / tpmC
All of the prices are based on South Korea's currency, KRW (₩, Korean Won) and excluded VAT. * All discounts are based on Korea list prices and for similar quantities and configurations. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.		

Benchmark implementation and results independantly audited by Doug Johnson of InfoSizing (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. Thank you.

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				Report Date 25-Sep-2023
				Available Now
MQTh, computed Maximum Qualified Throughput		279,185 tpmC		
Response Times (seconds)				
	Min	Average	90th	Max
New-Order	0.102	0.112	0.104	35.353
Payment	0.101	0.111	0.102	43.442
Order-Status	0.101	0.110	0.102	2.524
Delivery (interactive portion)	0.101	0.101	0.101	0.262
Delivery (deferred portion)	0.001	0.019	0.005	3.290
Stock-Level	0.102	0.111	0.103	2.523
Menu	0.101	0.101	0.102	2.196
Emulated Display Delay: 0.1 sec.				
Transaction Mix				
	Percent	Number		
New-Order	44.980%	117,262,770		
Payment	43.011%	112,129,869		
Order-Status	4.002%	10,434,208		
Delivery	4.003%	10,436,393		
Stock-Level	4.003%	10,436,555		
Keying Times (seconds)				
	Min	Average	Max	
New-Order	18.001	18.001	18.059	
Payment	3.001	3.001	3.081	
Order-Status	2.001	2.001	2.012	
Delivery	2.001	2.001	2.025	
Stock-Level	2.001	2.001	2.052	
Think Times (seconds)				
	Min	Average	Max	
New-Order	0.001	12.045	120.501	
Payment	0.001	12.045	120.501	
Order-Status	0.001	10.046	100.501	
Delivery	0.001	5.025	50.301	
Stock-Level	0.001	5.028	50.301	
Test Duration				
Ramp-up time				65 min
Measurement Interval (MI)				420 min
Checkpoints in MI				-
Checkpoint Interval (Average / Max)				-
Number of Transactions in MI (all types)				260,669,795