



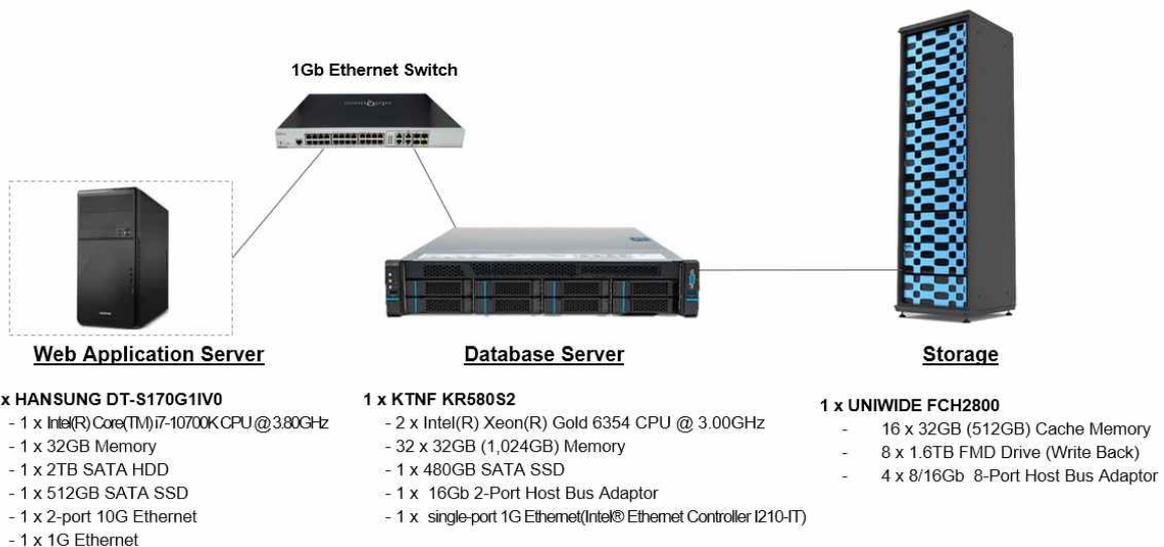
Goldilocks v3.1 Standard Edition on KTNF KR580S2

TPC-C Version 5.11.0
TPC Pricing 2.7.0

Report Date
16-Dec-2021

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
₩ 260,814,000 (KRW)	101,550 tpmC	2,569 KRW/tpmC	Available Now
Server Processors/Cores/Threads	Database Manager	Operating System	Other Software
2/36/72	Goldilocks v3.1 Standard Edition	RHEL 7.9	JBoss Web Server
			Number of Users
			80,000

Priced Configuration (KTNF)



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	1/8/16	Intel(R) Core(TM) i7-10700K CPU @ 3.80GHz
Memory	32	32GB	1	32GB
Storage Controller	1	- EMULEX LightPulse LPe16002 HP SN1000E 16Gb Dual Port Fibre Channel Host Bus Adaptor		
Storage Device	1	480GB SATA SSD	1	1TB SATA HDD
	8	1.6TB FMD (External, Write back)	1	512GB SATA SSD
Total Storage Capacity		14.8TB		



Goldilocks v3.1 Standard Edition on KTNF KR580S2

TPC-C Version 5.11.0
TPC Pricing 2.7.0

Report Date
16-Dec-2021

Available Now

Description	Part Number	Source	Unit Price	Qty	Price	3-Yr. Maint. Price
Server Hardware						
KTNF KR580S2 Server	KR580S2	1	30,470,000	1	30,470,000	
2U-12Bay, FH Riser (3slots PCIe Gen4.0 x16, x8, x8) x2, OCP3.0 slot x1, 1P 1G RJ-45, 1300W x2, Rail 1	SYS	1	(included)	1		
Intel Xeon Gold 6354 Processor (18C/36T 3.0GHz, 39MB, 205W)	CPU	1	(included)	2		
32GB DDR4 3200 RDIMM memory	RAM	1	(included)	32		
Samsung 480GB, 2.5" SATA SSD	SSD	1	(included)	1		
Emulex Dual port 16Gbps FC HBA Adapter	HBA	1	(included)	1		
3year, 24x7x4hr Onsite Support Service 1	Maintenance	1	(included)	1		
WAS Servers (per server) - DT-S170G1IV0 (w/spares)	DT-S170G1IV0	2	1,551,000	4	6,204,000	
Intel® Core Processor i7-10700K, 3.8GHz	-	2	(included)	1		
DDR4 32GB, Samsung, UDIMM PC4-25600U	-	2	(included)	1		
Seagate Barracuda ST2000DM008 2 TB 3.5"	-	2	(included)	1		
HP SSD EX900 512GB	-	2	(included)	1		
2-port 10G Ethernet Controller	-	2	(included)	1		
Server Hardware Sub Total					36,674,000	
Storage Hardware						
All Flash Storage - FCH2800	FCH2800	3	72,250,000	1	72,250,000	
FCH2800 Controller Device	T0001-0117-00	3	(included)	1		
Back-end Bus Adapter 12G SAS	T0001-0117-01	3	(included)	1		
16G 8-Port Host Bus Adapter	T0001-0117-02	3	(included)	4		
Cache Interconnect Adapter	T0001-0117-03	3	(included)	1		
Cache Memory DDR-3 (32GB)	T0001-0117-04	3	(included)	16		
FCH2800 Flash Disk Drive Expansion Unit	T0001-0117-05	3	(included)	1		
FCH2800 controller cpu Board	T0001-0117-06	3	(included)	1		
Rack 600x1200x2010 mm (WxDxH) 42U	T0001-0117-07	3	(included)	1		
Storage Management SW	T0001-0117-08	3	(included)	1		
UTP CAT5e Ethernet Cable 1M	61001-0001-00	3	(included)	1		
Power Cord, NICETECH, 2.5M	42119-0005-00	3	(included)	2		
1.6TB Flash Memory Disk Drive	T22601-0117-03	3	3,900,000	8	31,200,000	
3-yrs 24x7x4hrs Onsite Support Service	-	3	26,350,000	1		26,350,000
Storage Hardware Sub Total					103,450,000	26,350,000
Client/Server Software						
Red Hat Enterprise Linux Server Standard 3yrs	RH00004F3	4	4,098,000	3	12,294,000	
RHEL Server Standard Maintenance - 3yrs 24x7x4hrs	RP-CPS(OS)	4	6,000,000	3		18,000,000



Goldilocks v3.1 Standard Edition on KTNF KR580S2

TPC-C Version 5.11.0
TPC Pricing 2.7.0

Report Date
16-Dec-2021

Available Now

MQTh, computed Maximum Qualified Throughput **101,550 tpmC**

Response Times (seconds)	Min	Average	90 th	Max
New-Order	0.102	0.104	0.105	4.915
Payment	0.102	0.104	0.105	1.446
Order-Status	0.102	0.103	0.103	1.282
Delivery (interactive portion)	0.101	0.101	0.101	0.723
Delivery (deferred portion)	0.002	0.006	0.008	5.092
Stock-Level	0.102	0.103	0.103	1.281
Menu	0.101	0.101	0.102	0.881

Emulated Display Delay: 0.1 sePc.

Transaction Mix	Percent	Number
New-Order	44.980%	42,651,272
Payment	43.011%	40,784,729
Order-Status	4.003%	3,795,420
Delivery	4.003%	3,796,002
Stock-Level	4.003%	3,796,131

Keying Times (seconds)	Min	Average	Max
New-Order	18.001	18.001	18.004
Payment	3.001	3.001	3.012
Order-Status	2.001	2.001	2.011
Delivery	2.001	2.001	2.011
Stock-Level	2.001	2.001	2.010

Think Times (seconds)	Min	Average	Max
New-Order	0.001	12.046	120.501
Payment	0.001	12.044	120.501
Order-Status	0.001	10.054	100.501
Delivery	0.001	5.038	50.301
Stock-Level	0.001	5.029	50.301

Test Duration	
Ramp-up time	65 min
Measurement Interval (MI)	420 min
Checkpoints in MI	16
Checkpoint Interval (Average / Max)	26:11 min / 26:13 min
Number of Transactions in MI (all types)	94,823,554