

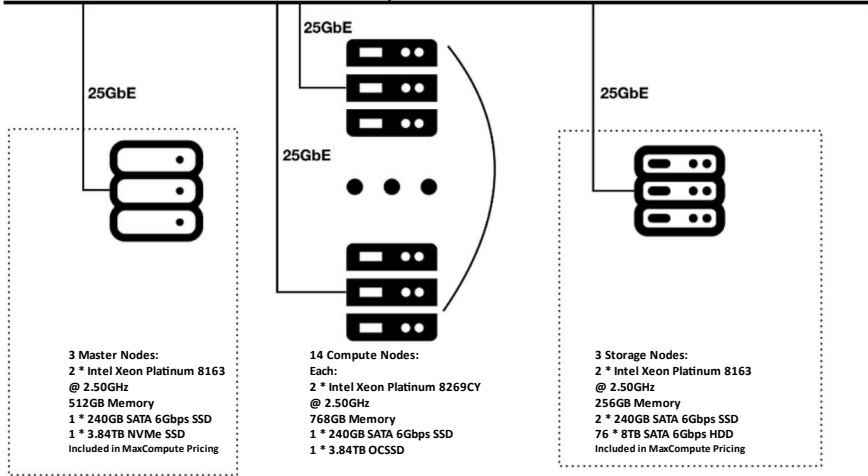
		Alibaba Cloud MaxCompute			TPCx-BB Rev. v1.5.0 TPC-Pricing Rev. v2.7.0	
					Report Date: August 18, 2021	
Total System Cost		TPCx-BB Performance Metric			Price/Performance	
1,072,194 USD		16,649.75 BBQpm@30000			64.40 USD \$/BBQpm@30000	
Framework	Operating System	Other Software	Availability Date	Scale Factor	Streams	
MaxCompute v3.37	Alibaba Group Enterprise Linux Server 7.2 (Paladin)	None	August 1, 2021	30000	3	
System Configuration						
						
 <p>Switches: Uplink: 8 * 100 Gbps Downlink: 48 * 25 Gbps Included in MaxCompute Pricing</p>						
						
Physical Storage/Scale Factor: 63.16			Scale Factor/Physical Memory: 2.30			
Servers:		3x Admin Nodes / 14x Compute Node / 3x Storage Node				
Total Processors/Cores/Threads		40/1,016/2,032				
3x Master Node: 2x Intel® Xeon® Platinum 8163 CPU @ 2.50GHz 512 GiB Onboard SATA Controller 1x 240 GB SATA 6 Gbps SSD 1x 3.84 TB NVMe SSD Mellanox MT27710 ConnectX-4 Lx		14x Compute Node (Compute): 2x Intel(R) Xeon(R) Platinum 8269CY CPU @ 2.50GHz 768 GiB Onboard SATA Controller 1x 240 GB SATA 6 Gbps SSD 1x 3.84 TB OCSSD Mellanox MT27710 ConnectX-4 Lx			3x Storage Node (Storage): 2x Intel(R) Xeon(R) Platinum 8163 CPU @ 2.50GHz 256 GiB Onboard SATA Controller 2x 240 GB SATA 6 Gbps SSD 76x 8 TB SATA 6 Gbps HDD Mellanox MT27710 ConnectX-4 Lx	
Connectivity:		Network Switch (8x 100 Gbps Up; 48x 25 Gbps Down)				



Alibaba Cloud MaxCompute

TPCx-BB Rev. v1.5.0
 TPC-Pricing Rev. v2.7.0

Report Date:
 August 18, 2021

Description	Part Number	Source	Unit Price	Qty	Ext. Price	3-Year Maint.
License Compute and Software Services						
<u>MaxCompute Annual Subscription (1,400 CU)</u>	Asia Pacific SE 1 (Singapore)		1	\$369,600.00	3	\$1,108,800.00
Master Node					3	
Intel® Xeon® Platinum 8163 @ 2.50 GHz					2	
32 GB Memory					16	
240 GB SATA 6 Gbps SSD					1	
3.84 TB NVMe SSD					1	
Compute Node					14	
Intel® Xeon® Platinum 8269CY @ 2.50 GHz					2	
32 GB Memory					24	
240 GB SATA 6 Gbps SSD					1	
3.84 TB OCSSD					1	
Storage Node					3	
Intel® Xeon® Platinum 8163 @ 2.50 GHz					2	
32 GB Memory					8	
240 GB SATA 6 Gbps SSD					2	
8 TB SATA 6 Gbps HDD					76	
Network Switches (8x100Gbps Up; 48x25Gbps Down)					NA	
1-Year Annual Subscription Discount (30%)				-\$110,880.00	3	-\$332,640.00
<u>MaxCompute Storage for 1 year</u>			1	\$1,378.96	3	\$4,136.88
30000 Scale Factor (6.15 TB compressed)						
<u>MaxCompute Enterprise Service for 1 year</u>			1	\$96,000.00	3	\$288,000.00
24x7, 4 hour response						
License Compute and Software Services Sub-Total					\$780,296.88	\$288,000.00
Other Components						
13-inch MacBook Pro 1.4GHz (includes 2 spares)			2	\$1,299.00	3	\$3,897.00
Other Components Sub-Total					\$3,897.00	\$0.00

Pricing: 1 = Alibaba; 2 = Apple.com

⁽¹⁾ All discounts are based on US list prices and for similar quantities and configurations. The discounts are based on the overall specific components pricing from respective vendors in this single quotation. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.

Audited by Doug Johnson, InfoSizing

Three-Year Cost of Ownership \$1,072,194

BBQpm@30000 16,649.75

\$/BBQpm@30000 \$ 64.40

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 specifications. If you find that the stated prices are not available according to these terms, please inform at pricing@tpc.org. Thank you.

Numerical Quantities

Scale Factor	30000
Streams	3
SUT Validation Test	PASS

Performance Run (Run 1)

Overall Run Start Time	2021-08-08 14:22:39.016
Overall Run End Time	2021-08-08 18:57:29.358
Overall Run Elapsed Time	16,490.342
Load Test Start Time	2021-08-08 14:22:39.017
Load Test End Time	2021-08-08 14:51:25.654
Load Test Elapsed Time	1,726.637
Power Test Start Time	2021-08-08 14:51:25.655
Power Test End Time	2021-08-08 16:21:20.338
Power Test Elapsed Time	5,394.683
Throughput Test Start Time	2021-08-08 16:21:20.338
Throughput Test End Time	2021-08-08 18:57:29.357
Throughput Test Elapsed Time	9,369.019
Performance Metric (BBQpm@ 30000)	16,649.75

Repeatability Run (Run 2)

Overall Run Start Time	2021-08-08 19:54:20.148
Overall Run End Time	2021-08-09 00:20:12.004
Overall Run Elapsed Time	15,951.856
Load Test Start Time	2021-08-08 19:54:20.149
Load Test End Time	2021-08-08 20:22:59.335
Load Test Elapsed Time	1,719.186
Power Test Start Time	2021-08-08 20:22:59.336
Power Test End Time	2021-08-08 21:48:08.337
Power Test Elapsed Time	5,109.001
Throughput Test Start Time	2021-08-08 21:48:08.338
Throughput Test End Time	2021-08-09 00:20:12.003
Throughput Test Elapsed Time	9,123.665
Performance Metric (BBQpm@ 30000)	17,226.79

Performance Run Report (Run 1)

```

*****
TPCx-BB
Result
v1.5.0
*****
INFO: T_LOAD = 1726.637
INFO: T_LD = 0.1 * T_LOAD: 172.6637
INFO: T_PT = 3019.1282532288
INFO: T_T_PUT = 9369.019
INFO: T_TT = 3123.00633333333
INFO: === Checking validity of the final result ===
INFO: OK: All required BigBench phases were performed.
INFO: OK: All 30 queries were running in the power test.
INFO: OK: All 30 queries were running in the first throughput test.
INFO: OK: Pretend mode was inactive. All commands were executed.
INFO: === Final result ===
INFO: VALID BBQpm@30000 = 16649.7509532956
    
```

Repeatability Run Report (Run 2)

```

*****
TPCx-BB
Result
v1.5.0
*****
INFO: T_LOAD = 1719.186
INFO: T_LD = 0.1 * T_LOAD: 171.9186
INFO: T_PT = 2886.2692958111
INFO: T_T_PUT = 9123.665
INFO: T_TT = 3041.22166666666
INFO: === Checking validity of the final result ===
INFO: OK: All required BigBench phases were performed.
INFO: OK: All 30 queries were running in the power test.
INFO: OK: All 30 queries were running in the first throughput test.
INFO: OK: Pretend mode was inactive. All commands were executed.
INFO: === Final result ===
INFO: VALID BBQpm@30000 = 17226.7967953113
    
```

Summary details of the run reports are shown above. For the complete run reports, see the Support Files Archive.