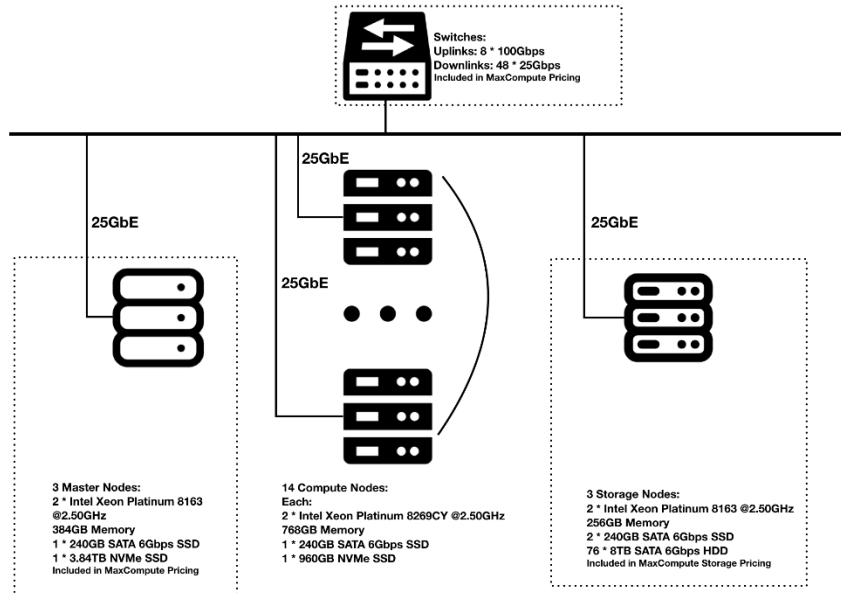
		Alibaba Cloud MaxCompute		TPCx-BB Rev. v1.3.1 TPC-Pricing Rev. v2.6.0	
				Report Date: September 25, 2020	
Total System Cost		TPCx-BB Performance Metric		Price/Performance	
1,075,657 USD		9,296.45 BBQpm@30000		115.71 USD \$/BBQpm@30000	
Framework	Operating System	Other Software	Availability Date	Scale Factor	Streams
MaxCompute v3.35	Alibaba Group Enterprise Linux Server 7.2 (Paladin)	None	September 1, 2020	30000	3

System Configuration



Physical Storage/Scale Factor: 61.82		Scale Factor/Physical Memory: 2.37	
Servers:		3x Master Nodes / 14x Compute Nodes / 3x Storage Nodes	
Total Processors/Cores/Threads		40/1,016/2,032	
3x Master Node: 2x Intel® Xeon® Platinum 8163 CPU @ 2.50GHz 384 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: 2x Intel(R) Xeon(R) Platinum 8269CY CPU @ 2.50GHz 768 GiB Onboard SATA Controller 1x 240 GB SATA 6 Gbps SSD 1x 960 GB NVMe SSD Mellanox MT27710 ConnectX-4 Lx	
		3x Storage Node: 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 Switches (8x 100 Gbps Up; 48x 25 Gbps Down)	



Alibaba Cloud MaxCompute

TPCx-BB Rev. v1.3.1
TPC-Pricing Rev. v2.6.0

Report Date:
September 25, 2020

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					12	
240 GB SATA 6 Gbps SSD					1	
3.84 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	
960 GB NVMe SSD					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	\$2,533.10	3	\$7,599.30
30000 Scale Factor (6.16 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					\$783,759.30	\$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	\$1,075,657
	BBQpm@30000	9,296.45
	\$/BBQpm@30000	\$ 115.71

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 2)

Overall Run Start Time	2020-09-19 00:57:43.355
Overall Run End Time	2020-09-19 10:01:55.021
Overall Run Elapsed Time	32,651.666
Load Test Start Time	2020-09-19 00:57:43.355
Load Test End Time	2020-09-19 01:31:45.443
Load Test Elapsed Time	2,042.088
Power Test Start Time	2020-09-19 01:31:45.444
Power Test End Time	2020-09-19 04:25:47.309
Power Test Elapsed Time	10,441.865
Throughput Test Start Time	2020-09-19 04:25:47.310
Throughput Test End Time	2020-09-19 10:01:55.021
Throughput Test Elapsed Time	20,167.711
Performance Metric (BBQpm@ 30000)	9,296.45

Repeatability Run (Run 1)

Overall Run Start Time	2020-09-18 15:17:05.349
Overall Run End Time	2020-09-18 23:58:47.898
Overall Run Elapsed Time	31,302.549
Load Test Start Time	2020-09-18 15:17:05.349
Load Test End Time	2020-09-18 15:48:23.630
Load Test Elapsed Time	1,878.281
Power Test Start Time	2020-09-18 15:48:23.632
Power Test End Time	2020-09-18 18:36:02.356
Power Test Elapsed Time	10,058.724
Throughput Test Start Time	2020-09-18 18:36:02.356
Throughput Test End Time	2020-09-18 23:58:47.898
Throughput Test Elapsed Time	19,365.542
Performance Metric (BBQpm@ 30000)	9,399.58

Performance Run Report (Run 2)

```
*****
TPCx-BB
Result
v1.3.1
*****
INFO: T_LOAD = 2042.088
INFO: T_LD = 0.1 * T_LOAD: 204.2088
INFO: T_PT = 4672.31599274995
INFO: T_T_PUT = 20167.711
INFO: T_TT = 6722.57033333333
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 = 9296.45001959163
```

Repeatability Run Report (Run 1)

```
*****
TPCx-BB
Result
v1.3.1
*****
INFO: T_LOAD = 1878.281
INFO: T_LD = 0.1 * T_LOAD: 187.8281
INFO: T_PT = 4783.97401771894
INFO: T_T_PUT = 19365.542
INFO: T_TT = 6455.18066666666
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 = 9399.5871746194
```

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