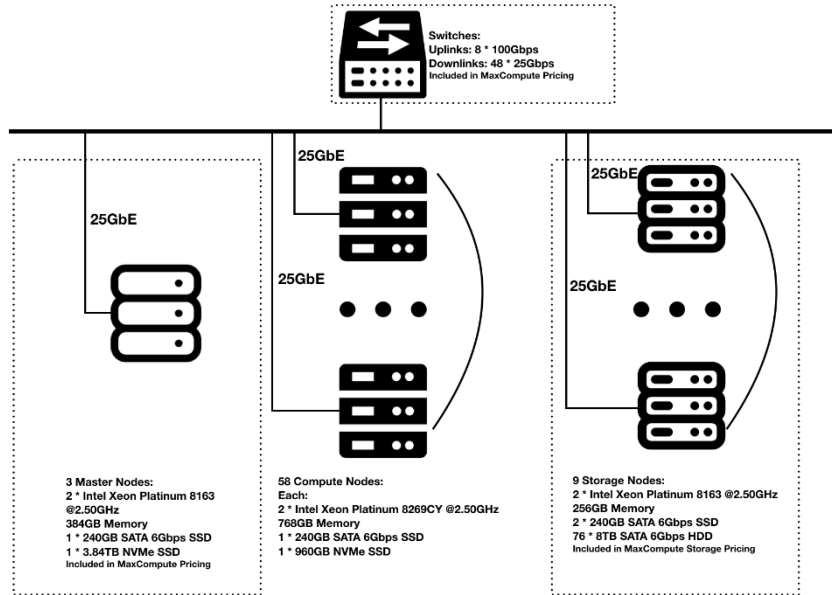
		Alibaba Cloud MaxCompute		TPCx-BB Rev. v1.3.1 TPC-Pricing Rev. v2.6.0	
				Report Date: September 25, 2020	
Total System Cost		TPCx-BB Performance Metric		Price/Performance	
3,674,525 USD		26,501.53 BBQpm@100000		138.66 USD \$/BBQpm@100000	
Framework	Operating System	Other Software	Availability Date	Scale Factor	Streams
MaxCompute v3.35	Alibaba Group Enterprise Linux Server 7.2 (Paladin)	None	September 1, 2020	100000	4

System Configuration



Physical Storage/Scale Factor: 55.58		Scale Factor/Physical Memory: 2.08	
Servers: 3x Master Nodes / 58x Compute Nodes / 9x Storage Nodes Total Processors/Cores/Threads 140/3,592/7,184			
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		58x 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	
		9x 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 Switch (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 (6,000 CU)</u>	Asia Pacific SE 1 (Singapore)		1 \$1,584,000.00	3	\$4,752,000.00	
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				58		
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				9		
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%)			-\$475,200.00	3	-\$1,425,600.00	
<u>MaxCompute Storage for 1 year</u>			1 \$7,781.80	3	\$23,345.40	
100000 Scale Factor (20.91 TB compressed)						
<u>MaxCompute Enterprise Service for 1 year</u>			1 \$106,960.73	3		\$320,882.19
24x7, 4 hour response						
License Compute and Software Services Sub-Total					\$3,349,745.40	\$320,882.19
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 \$3,674,525

BBQpm@100000 26,501.53

\$/BBQpm@100000 \$ 138.66

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	100000
Streams	4
SUT Validation Test	PASS

Performance Run (Run 1)

Overall Run Start Time	2020-09-22 18:59:21.527
Overall Run End Time	2020-09-23 07:01:11.893
Overall Run Elapsed Time	43,310.366
Load Test Start Time	2020-09-22 18:59:21.528
Load Test End Time	2020-09-22 20:06:00.348
Load Test Elapsed Time	3,998.820
Power Test Start Time	2020-09-22 20:06:00.349
Power Test End Time	2020-09-22 23:43:11.478
Power Test Elapsed Time	13,031.129
Throughput Test Start Time	2020-09-22 23:43:11.479
Throughput Test End Time	2020-09-23 07:01:11.892
Throughput Test Elapsed Time	26,280.413
Performance Metric (BBQpm@ 100000)	26,501.53

Repeatability Run (Run 2)

Overall Run Start Time	2020-09-23 09:48:15.856
Overall Run End Time	2020-09-23 21:21:44.163
Overall Run Elapsed Time	41,608.307
Load Test Start Time	2020-09-23 09:48:15.856
Load Test End Time	2020-09-23 10:45:22.446
Load Test Elapsed Time	3,426.590
Power Test Start Time	2020-09-23 10:45:22.447
Power Test End Time	2020-09-23 14:25:56.836
Power Test Elapsed Time	13,234.389
Throughput Test Start Time	2020-09-23 14:25:56.836
Throughput Test End Time	2020-09-23 21:21:44.163
Throughput Test Elapsed Time	24,947.327
Performance Metric (BBQpm@ 100000)	26,540.83

Performance Run Report (Run 1)

TPCx-BB

Result

v1.3.1

INFO: T_LOAD = 3998.82

INFO: T_LD = 0.1 * T_LOAD: 399.882

INFO: T_PT = 6219.06823718299

INFO: T_T_PUT = 26280.413

INFO: T_TT = 6570.10325

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@100000 = 26501.5385155979

Repeatability Run Report (Run 2)

TPCx-BB

Result

v1.3.1

INFO: T_LOAD = 3426.59

INFO: T_LD = 0.1 * T_LOAD: 342.659

INFO: T_PT = 6648.42874649639

INFO: T_T_PUT = 24947.327

INFO: T_TT = 6236.83175

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@100000 = 26540.8376417617

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