SANT		Alibaba Clou	d Elastic	c Compute S	ervice		PC-C 5.11.0 -Pricing 2.4.0	
FINAN	ČIAL	Cluster (with 204 OceanBase Data Nodes)				Report Date October 2, 2019		
Total System Co	ost	TPC-C Throughput Price/Performance			ormance	Availability Date		
CNY380, 452,84	42	60,880,800 tpi	mC	CNY6.25	/tpmC	Oct	tober 2, 2019	
Database Serve Processors/Cores/Th		Database Manager		Operat Syste	-	Other Software	Number of Users	
Intel Xeon Platin 8163(Skylake) 2.5 13,248 vCPU		OceanBase v2.2 Enterpris Partitioning, Horizontal S Advanced Compre	calability and		inux 2	Nginx 1.15.8	47,942,400	
	System 54 vCPt	S. Töslarga Disk 4008 memory				SUT Mgmt N 10 Gbt Inter Connection ets.c5.Thelarge.cc3	nert RF	
System Component	D4 # mts.c 3v61am 86 v(Pt 12860) 12860 307 x mts 307 x m	Nodee III: Tokaroge	3 x OCP N	64 xCPI 128G8	18starge Disk 40GB J memory lise.1024GB	10 GbE Inner	net IV s to 12_1 finilarge	
	D4 # mts.c 3v61am 86 v(Pt 12860) 12860 307 x mts 307 x m	Ander Madee Doke 40CB Doke 40CB Memory Bood focal disks ase Nodes (each with) Intel Xeon Platinum 8163		Nodes (each with) Intel Xeon Platinum 8163	18starge Disk 40GB J memory lise.1024GB	10 GBE Inter- ets.c5. Tillelarge.ets 10 GBE 10 GBE	Total n 548/8,768/17,53 63 (17,536 vCPU	
Proc./Core/Thread	Detabase 12860 Detabase 107 x ecc. 51266 8 x 128 2/32/64	Inclusion of the second	3 x OCP N 2/32/64	Nodes (each with)	64 x Clier 2/32/64	10 GBE Inter- ets.c5. Tieldryc.cc5 10 GBE nts (each with) Intel Xeor	Total n 548/8,768/17,55 63 (17,536 vCPU)	
Proc./Core/Thread (Virtual CPU)	Detabase 12860 Detabase 107 x ecc. 51266 8 x 128 2/32/64	Ase Nodes (each with) Intel Xeon Platinum 8163 (2.5GHz, 33MB) 512GB 40GB Ultra Cloud	3 x OCP N 2/32/64	Nodes (each with) Intel Xeon Platinum 8163 (2.5GHz, 33MB) 128GB 40GB Ultra Cloud	64 x Clier 2/32/64	10 GBE Inter- ets. 25. Tillelarge, 202 10GB 10GB 10GB 10GB 10GB 10GB 128GB 40GB Ultra C	Total n 548/8,768/17,52 63 (17,536 vCPU MB) 114,560GB	
Proc./Core/Thread (Virtual CPU) Memory	2/32/64 (64 vCPU)	And the second s	3 x OCP N 2/32/64 (64 vCPU)	Nodes (each with) Intel Xeon Platinum 8163 (2.5GHz, 33MB) 128GB	64 x Clien 2/32/64 (64 vCPU)	10 GBE Inter- ets.c5. Tillelarge.cc5 10Gb 10Gb 10Gb 10Gb 10Gb 10Gb 10Gb 10Gb	Total n 548/8,768/17,52 63 (17,536 vCPU MB) 114,560GB	

3,192GB

2,560GB

2,974,960GB

2,969, 208GB

Total Storage

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Alibaba Cloud Elastic Compute Service Cluster (with 204 OceanBase Data Nodes)

TPC-C 5.11.0 TPC-Pricing 2.4.0 Report Date October 2, 2019

					Octol	ber 2, 2019	
Description	Part Number	Src	Unit Price (CNY)	Qty	Ext. Price (CNY)	3-Y Maintenance (CNY)	
Licensed Compute Services							
Virtual cloud server							
ECS Instance ecs.i2.16xlarge (3-year price) - NVMe SSD Local Disk (8 x 1788 GB) - vCPU (64) - Memory (512GB)	ecs.i2.16xlarge (East China 2)	2	287,343.00	207	59,480,001.00		
ECS System Disk (Ultra Cloud Disk 40GB)	Included	2	0.00	207	0.00		
Aliyun Linux 2	Included	2	0.00	207	0.00		
Virtual cloud server							
ECS Instance ecs.c5.16xlarge (3-year price) - vCPU (64) - Memory (128GB)	ecs.c5.16xlarge (East China 2)	2	114,370.20	64	7,319,692.80		
ECS System Disk (Ultra Cloud Disk 40GB)	Included	2	0.00	64	0.00		
Aliyun Linux 2	Included	2	0.00	64	0.00		
Virtual cloud server							
ECS Instance ecs.c5.16xlarge (3-year price) - vCPU (64) - Memory (128GB)	ecs.c5.16xlarge (East China 2)	2	132,802.20	3	398,406.60		
ECS System Disk (Ultra Cloud Disk 40GB)	Included	2	0.00	3	0.00		
ECS Cloud Disk (Standard SSD 1024GB)	Included	2	0.00	3	0.00		
Aliyun Linux 2	Included	2	0.00	3 Sub-Total	0.00 67,198,100.40		
Licensed Software Services							
OceanBase v2.2 Enterprise Edition, per vCPU for 3 years		1	16,500.00	13,440	221,760,000.00		
OceanBase v2.2 Partitioning, per vCPU for 3 years		1	3437.50	13,440	46,200,000.00		
OceanBase v2.2 Horizontal Scalability, per vCPU for 3 years		1	3437.50	13,440	46,200,000.00		
OceanBase v2.2 Advanced Compression, per vCPU for 3 years		1	3437.50	13,440	46,200,000.00		
OceanBase v2.2 Support Service (Partitioning, Horizontal Scalability and Advanced Compression included), per vCPU for 3 years		1	29,250.00	13,440		393,120,000.00	
				Sub-Total	360,360,000.00	393,120,000.00	
Other Components Lenovo ThinkPad X1 Carbon 2019 14" Laptop (includes 2 spares)	20QDA009CD	3	16,999.00	3	50,997.00		
spares)				Sub-Total	50,997.00		

Other Services					
	2	200 000 00	2		
Alibaba Cloud Enterprise Support Service for 3 years 7*24*4hours	2	300,000.00	3		900,000.00
 ECS support included Aliyun Linux 2 support included 					
OpenResty Professional Edition Support Service for 3 years 7*24*4hrs	4	6,600.00	192		1,267,200.00
- Nginx support included					
			Sub-Total	0.00	2,167,200.00
Discounts*					
OceanBase v2.2 Enterprise Edition Discount	1	-9,688.80	13,440	-130,217,472.00	
OceanBase v2.2 Partition Discount	1	-2,018.50	13,440	-27,128,640.00	
OceanBase v2.2 Horizontal Discount	1	-2,018.50	13,440	-27,128,640.00	
OceanBase v2.2 Advanced Compression Discount	1	-2,018.50	13,440	-27,128,640.00	
OceanBase v2.2 Support Service (Partitioning, Horizontal Scalability and Advanced Compression included) Discount	1	-17,175.60	13,440		-230,840,064.00
			Sub-Total	-211,603,392.00	-230,840,064.00
			70 a 4 - 1	216 005 705 40	164 447 126 00
			Total	216,005,705.40	164,447,136.00
1 Ant Financial 2 Alibaba Cloud			3-Y Cost of	Ownership (CNY):	380,452,842
3 thinkpad.lenovo.com.cn				tpmC	60,880,800
4 OpenResty Inc.				CNY/tpmC	6.25
Audited by Francois Raab and Doug Johnson	n of InfoSizing				

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



Alibaba Cloud Elastic Compute Service Cluster (with 204 OceanBase Data Nodes)

TPC-C 5.11.0 TPC-Pricing 2.4.0

Report Date

October 2, 2019

Numerical Quantities Summary:

MQTh (Maximum Qualified Throu	QTh (Maximum Qualified Throughput) 60,880,800 tpmC			
Response Time (sec.)	Min	Average	90 th	Max
New-Order	0.103	0.114	0.123	5.754
Payment	0.103	0.112	0.121	5.761
Order-Status	0.102	0.106	0.11	5.793
Delivery (Interactive)	0.101	0.101	0.103	3.926
Delivery (Deferred)	0.006	0.019	0.024	2.483
Stock-Level	0.102	0.109	0.115	5.312
Menu	0.101	0.101	0.103	20.547
Emulated Display Delay: 0.2	1 sec.			
Transaction Mix	Percent	Nu	mber	
New-Order	44.960%	29,222,	784,280	
Payment	43.010%	27,955,4	489,832	
Order-Status	4.010%	2,606,	386,247	
Delivery	4.010%	2,606,	365,527	
Stock-Level	4.010%	2,606,-	426,679	
Keying Times (sec.)	Min	Average	Μ	ax
New-Order	18.002	18.025		22.435
Payment	3.002	3.025		7.465
Order-Status	2.002	2.024		6.447
Delivery	2.002	2.024		6.441
Stock-Level	2.002	2.024		6.451
Think Times (sec.)	Min	Average	Ν	lax
New-Order	0.002	12.024		123.886
Payment	0.002	12.024		124.165
Order-Status	0.002	10.024		101.219
Delivery	0.002	5.024		51.263
Stock-Level	0.002	5.024		51.617
Test Duration				
Ramp-up Time				35 min.
Measurement Interval (MI)				480 min.
Checkpoints in MI per Node				26/26.6/28
Maximum Checkpoint Interv				19:17
Number of transactions (all	types) completed in Meas	surement Interval		64,997,452,565