



# Cloud OceanBase

TPC-H Rev. 3.0.0  
TPC Pricing Rev. 2.7.0

Report Date:  
20-May-21

Total System Cost

Composite Query per Hour Metric

Price/Performance

**69,336,912 CNY**

**15,265,305.7**  
QphH@30000GB

**4,542.13 CNY**  
Price/kQphH@30000GB

Database Size

Database Manager

Operating System

Other Software

Availability Date

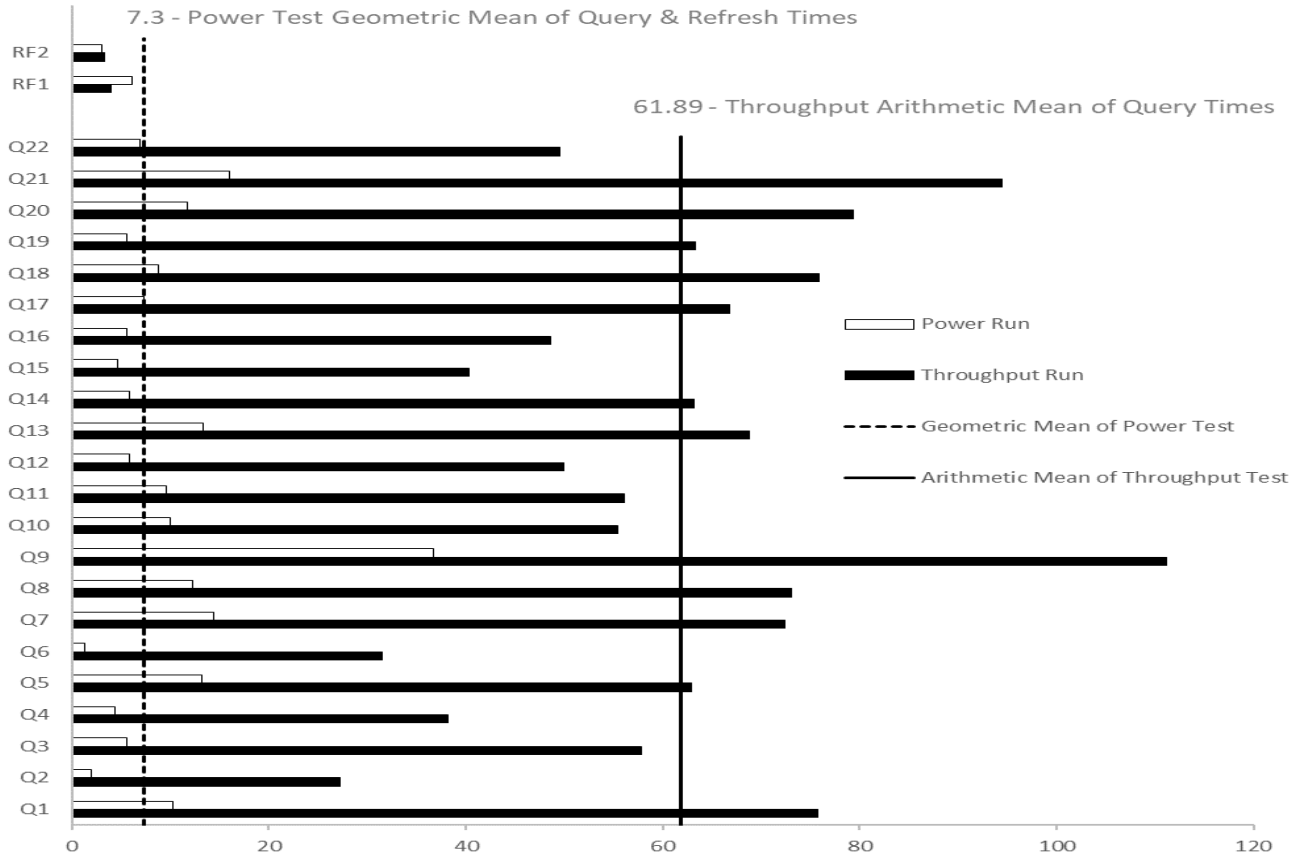
**30,000 GB**

**OceanBase V3.2**

**Alibaba Cloud  
Linux Server  
2.19**

**OceanBase  
File System  
V1.0**

**07/31/2021**



Database Load Time:  
02:47:41

Load Includes Backup: N

Memory Ratio: 163.8%

Total Data Storage/Database Size: 1.35

Storage Redundancy  
Level: Level Two

Base Table: Level Two

Auxiliary Data Structures: Level Two

Other: Level Two

## System Configuration

System Component	Per node	System Total	
	Compute Node	Compute Node	OFS Storage Service
Node:	1	64	N/A
vCPU:	80	5120	N/A
Memory:	768GB	49,152GB	N/A
Storage:	40 GB	2,560 GB	38,000 GB
Total			
Storage:	40,560GB		



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Description	Part Number	Source	Unit Price (CNY)	Qty	Extended Price (CNY)	3 yr Maint. Price (CNY)
<b>License Computer and Software Service</b>						
Cloud OceanBase (64 nodes, 80 cores per node, 3 year prepay) Each node with 80 vCPUs 768 GB Memory	East China 2	1	66,908,928	1	66,908,928	Included
OceanBase File System (38,000 GB Storage Capacity, 3 year prepay)	East China 2	1	2,427,984	1	2,427,984	Included
<b>Subtotal</b>					<b>69,336,912</b>	<b>0.00</b>

**3-year Cost of Ownership: 69,336,912.00**  
**QphH@30000GB: 15,265,305.7**  
**¥/kQphH@30000GB: 4,542.13**

Audited by: Doug Johnson, 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 the stated prices are not available according to these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org). Thank you.



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## Measurement Results

Database Scale Factor	30,000
Total Data Storage/Database Size	1.35
Percentage Memory/Database Size	163.8%
Start of Database Load Time	2021-05-16 11:45:24
End of Database Load Time	2021-05-16 14:33:05
Database Load Time	02:47:41
Query Streams for Throughput Test (S)	10
TPC-H Power	14,788,059.7
TPC-H Throughput	15,757,953.6
TPC-H Composite	15,265,305.7
Total System Price Over 3 Years	69,336,912 (CNY)
TPC-H Price/Performance Metric (¥/kQpH@30000GB)	4,542.13 (CNY)

## Measurement Interval

Measurement Interval in Throughput Test (Ts)	1,507.81
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## Duration of stream execution:

Power Run	Seed	Query Start Time	Total Time	RF1 Start Time	RF2 Start Time
		Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time
	516143305	2021-05-16 15:08:39	00:03:33	2021-05-16 15:08:33	2021-05-16 15:12:12
		2021-05-16 15:12:12		2021-05-16 15:08:39	2021-05-16 15:12:15
Throughput Stream	Seed	Query Start Time	Total Time	RF1 Start Time	RF2 Start Time
		Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time
1	516143306	2021-05-16 15:12:14	00:22:17	2021-05-16 15:36:09	2021-05-16 15:36:13
		2021-05-16 15:34:31		2021-05-16 15:36:13	2021-05-16 15:36:17
2	516143307	2021-05-16 15:12:14	00:23:33	2021-05-16 15:36:17	2021-05-16 15:36:21
		2021-05-16 15:35:47		2021-05-16 15:36:21	2021-05-16 15:36:24
3	516143308	2021-05-16 15:12:14	00:22:34	2021-05-16 15:36:24	2021-05-16 15:36:28
		2021-05-16 15:34:48		2021-05-16 15:36:28	2021-05-16 15:36:31
4	516143309	2021-05-16 15:12:14	00:21:51	2021-05-16 15:36:31	2021-05-16 15:36:35
		2021-05-16 15:34:05		2021-05-16 15:36:35	2021-05-16 15:36:39
5	516143310	2021-05-16 15:12:14	00:23:55	2021-05-16 15:36:39	2021-05-16 15:36:43
		2021-05-16 15:36:09		2021-05-16 15:36:43	2021-05-16 15:36:46
6	516143311	2021-05-16 15:12:14	00:20:55	2021-05-16 15:36:46	2021-05-16 15:36:50
		2021-05-16 15:33:09		2021-05-16 15:36:50	2021-05-16 15:36:53
7	516143312	2021-05-16 15:12:14	00:23:21	2021-05-16 15:36:53	2021-05-16 15:36:57
		2021-05-16 15:35:35		2021-05-16 15:36:57	2021-05-16 15:37:00
8	516143313	2021-05-16 15:12:14	00:21:35	2021-05-16 15:37:00	2021-05-16 15:37:04
		2021-05-16 15:33:49		2021-05-16 15:37:04	2021-05-16 15:37:08
9	516143314	2021-05-16 15:12:14	00:23:56	2021-05-16 15:37:08	2021-05-16 15:37:12
		2021-05-16 15:36:10		2021-05-16 15:37:12	2021-05-16 15:37:15
10	516143315	2021-05-16 15:12:14	00:23:07	2021-05-16 15:37:15	2021-05-16 15:37:19
		2021-05-16 15:35:21		2021-05-16 15:37:19	2021-05-16 15:37:22



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## TPC-H Timing Intervals (in seconds)

Duration of query execution:

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
0	10.22	1.95	5.63	4.43	13.15	1.26	14.36	12.32	36.68	9.98	9.64	5.91
1	36.06	43.71	38.38	35.25	54.63	48.95	103.84	66.15	137.02	51.04	55.23	38.98
2	69.40	14.13	58.33	33.53	71.84	3.28	37.35	73.72	129.71	66.32	54.25	107.05
3	113.14	42.18	40.18	29.31	98.98	66.32	98.40	71.27	120.29	83.52	48.26	36.51
4	72.94	39.80	58.57	25.70	67.58	42.80	70.21	71.69	123.18	65.19	56.67	46.94
5	39.20	19.66	120.54	25.05	63.88	26.61	64.48	67.77	68.77	41.42	52.53	89.17
6	78.38	17.10	32.64	49.63	86.55	38.68	72.09	70.66	113.33	35.45	42.05	50.15
7	87.26	6.52	74.97	19.39	60.48	29.71	86.72	72.36	94.22	81.86	47.28	18.03
8	67.64	32.68	36.65	31.31	64.12	23.35	46.60	62.50	105.16	37.71	54.72	36.82
9	151.41	37.48	67.34	30.62	25.24	31.95	105.03	131.26	101.02	46.87	62.98	39.84
10	42.17	19.33	50.20	101.73	36.38	3.32	39.17	43.62	118.46	45.43	87.30	35.40
Minimum	10.22	1.95	5.63	4.43	13.15	1.26	14.36	12.32	36.68	9.98	9.64	5.91
Maximum	151.41	43.71	120.54	101.73	98.98	66.32	105.03	131.26	137.02	83.52	87.30	107.05
Average	69.80	24.96	53.04	35.09	58.44	28.75	67.11	67.57	104.35	51.34	51.90	45.89

Stream ID	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
0	13.36	5.79	4.69	5.58	7.25	8.72	5.63	11.69	16.05	6.89	6.16	3.04
1	67.82	33.75	40.37	38.77	80.02	69.62	68.08	117.74	50.50	60.40	3.98	3.23
2	38.04	79.02	36.68	73.24	107.08	44.75	43.07	133.91	85.18	51.97	4.18	3.29
3	65.67	35.17	83.82	30.78	30.17	27.11	46.70	71.43	67.13	46.62	3.91	3.25
4	68.17	35.77	25.83	43.14	64.99	69.28	71.94	46.83	76.93	65.84	3.93	3.30
5	134.84	76.47	78.04	28.68	43.93	119.15	73.28	91.45	52.86	57.03	4.05	3.28
6	41.18	39.09	14.92	53.55	55.93	36.56	130.48	41.13	94.46	60.62	4.01	2.98
7	69.09	25.33	26.50	33.06	39.99	181.21	76.02	43.05	188.51	39.21	3.94	3.02
8	46.26	116.93	32.17	121.28	92.81	80.43	21.38	55.34	90.23	38.67	4.01	3.66
9	57.49	12.91	36.45	10.12	90.14	79.97	54.78	103.54	126.88	31.51	4.10	3.28
10	100.18	177.03	28.64	52.98	62.37	50.32	47.51	89.06	112.02	43.34	3.96	3.55
Minimum	13.36	5.79	4.69	5.58	7.25	8.72	5.63	11.69	16.05	6.89	3.91	2.98
Maximum	134.84	177.03	83.82	121.28	107.08	181.21	130.48	133.91	188.51	65.84	6.16	3.66
Average	63.83	57.93	37.10	44.65	61.33	69.74	58.08	73.20	87.34	45.65	4.20	3.26