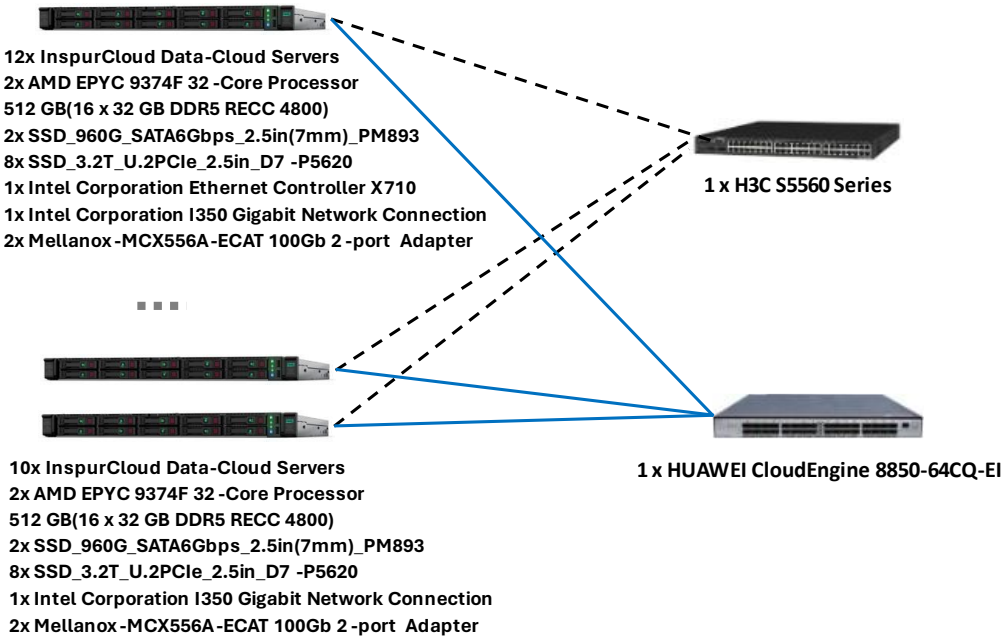
浪潮云	**InspurCloud Physical Server for Data**	TPCx-BB Rev. v1.6.2 TPC-Pricing Rev. v2.9.0 Report Date: May 7, 2024

Total System Cost	TPCx-BB Performance Metric	Price/Performance
704,148 USD	**7,338.84** BBQpm@3000	**95.95 USD** $/BBQpm@3000

Framework	Operating System	Other Software	Availability Date	Scale Factor	Streams
InspurCloud Data Cloud Platform 5.1.0	InLinux 23.12 (LTS)	None	May 7, 2024	3000	8

System Configuration



Physical Storage/Scale Factor: 201.81	Scale Factor/Physical Memory: 0.27

Servers:	22x InspurCloud Data-Cloud
Total Processors/Cores/Threads	44/1,408/2,816

Server Configuration:	**22x InspurCloud Data-Cloud (Server):**
Processors	2x AMD EPYC 9374F 32-Core Processor
Memory	512 GiB
Storage Controller	1x Broadcom / LSI SAS3008
Storage Device	2x 960 GB SATA SSD 8x 3.2 TBD NVMe SSD
Network Controller	2x Mellanox MCX556A-ECAT 100 Gb 2-port 1x Intel I350 1 Gb (all nodes) 1x Intel X710 10 Gb (12 nodes)

Connectivity:	1x H3C S5560 Series; 1x Huawei CloudEngine 8850-64CQ-EI

浪潮云

InspurCloud Physical Server for Data

TPCx-BB Rev. v1.6.2
TPC-Pricing Rev. v2.9.0

Report Date:
May 7, 2024

Description	Part Number	Source	Unit Price	Qty	Extended Price	3 Yr. Maint. Price
Server Hardware						
InspurCloud Data-Cloud Server	P54199-B21	1	$5,566.00	22	$122,452.00	
AMD EPYC 9374F 3.85GHz 32-core 320W Processor	P54199-B21	1	$2,514.00	44	$110,616.00	
2U Passive CPU Heat Sink for AMD Socket SP5 Processors	SNK-P0083P	1	$42.00	44	$1,848.00	
Middle Cooling Fan for 2U Hyper-S Systems 80x80x38mm 13.5K RPM	FAN-0209L4-1	1	$28.00	88	$2,464.00	
32GB DDR5 RECC 4800B 2R*8(M321R4GA3BB6-CQKMS)	M321R4GA3BI	1	$140.00	352	$49,280.00	
SSD 960G SATA 6Gbps 2.5in(7mm) PM893(MZ7L3960HCJR-00B7C)	MZ7L3960HCJ	1	$140.00	44	$6,160.00	
SSD 3.2T U.2PCIe 2.5in D7-P5620(SSDPF2KE032T1N1)	SSDPF2KE032	1	$420.00	176	$73,920.00	
1600W redundant single output power supply with inp	PWS-1K63A-1	1	$210.00	44	$9,240.00	
Intel Corporation Ethernet Controller X710	Intel-X710	1	$360.00	12	$4,320.00	
Intel Corporation I350 Gigabit Network Connection	Intel-I350	1	$84.00	22	$1,848.00	
Mellanox-MCX556A-ECAT 100Gb 2-port Adapter	MCX556A-EC	1	$698.00	44	$30,712.00	
Software						
InspurCloud Data Cloud Platform 5.1.0 Subscription Edition - 3 Years		1	$10,475.00	22		$230,450.00
InspurCloud 7x24 On-site Service, 3 years (includes all hardware)		1	$1,617.00	22		$35,574.00
Other Hardware Components						
HUAWEI CloudEngine 8850-64CQ-EI	CE8850	1	$23,040.00	1	$23,040.00	
H3C S5560 Series Switch	S5560	1	$1,120.00	1	$1,120.00	
Rack 48U Advanced Pallet		1	$418.00	1	$418.00	
Mellanox 100Gb 5m Direct Attach Copper Cable		1	$11.00	22	$242.00	
H3C S5560 10m Network Cable		1	$6.00	22	$132.00	
Keyboard and Mouse		1	$32.00	1	$32.00	
Monitor		1	$280.00	1	$280.00	
				Subtotal	$438,124.00	$266,024.00

Pricing:1 = Inspur Cloud

Audited by Doug Johnson of InfoSizing

Three-Year Cost of Ownership	**$704,148**
BBQpm@3000	**7,338.84**
$/BBQpm@3000	**$ 95.95**

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	3000
Streams	8
SUT Validation Test	PASS

Performance Run (Run 2)

Overall Run Start Time	2024-04-26 12:27:18.850
Overall Run End Time	2024-04-26 13:57:07.871
Overall Run Elapsed Time	5,389.021
Load Test Start Time	2024-04-26 12:27:18.850
Load Test End Time	2024-04-26 12:30:16.917
Load Test Elapsed Time	178.067
Power Test Start Time	2024-04-26 12:30:16.919
Power Test End Time	2024-04-26 12:51:42.372
Power Test Elapsed Time	1,285.453
Throughput Test Start Time	2024-04-26 12:51:42.373
Throughput Test End Time	2024-04-26 13:57:07.871
Throughput Test Elapsed Time	3,925.498
Performance Metric (BBQpm@ 3000)	7,338.84

Repeatability Run (Run 1)

Overall Run Start Time	2024-04-26 10:53:13.776
Overall Run End Time	2024-04-26 12:22:35.066
Overall Run Elapsed Time	5,361.290
Load Test Start Time	2024-04-26 10:53:13.776
Load Test End Time	2024-04-26 10:56:07.664
Load Test Elapsed Time	173.888
Power Test Start Time	2024-04-26 10:56:07.665
Power Test End Time	2024-04-26 11:17:24.347
Power Test Elapsed Time	1,276.682
Throughput Test Start Time	2024-04-26 11:17:24.347
Throughput Test End Time	2024-04-26 12:22:35.066
Throughput Test Elapsed Time	3,910.719
Performance Metric (BBQpm@ 3000)	7,368.94

Performance Run Report (Run 2)

```
************
TPCx-BB
Result
v1.6.2
************
INFO: T_LOAD = 178.067
INFO: T_LD = 0.1 * T_LOAD: 17.8067
INFO: T_PT = 1050.62662860565
INFO: T_T_PUT = 3925.498
INFO: T_TT = 490.68725
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@3000 = 7338.84861479101
```

Repeatability Run Report (Run 1)

```
************
TPCx-BB
Result
v1.6.2
************
INFO: T_LOAD = 173.888
INFO: T_LD = 0.1 * T_LOAD: 17.3888
INFO: T_PT = 1047.01021671587
INFO: T_T_PUT = 3910.719
INFO: T_TT = 488.839875
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@3000 = 7368.94532400853
```

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