Sugon			Sugon Cluster				TPCx-BB Rev. v1.2.0 TPC-Pricing Rev. v2.2.0 Report Date: January 22, 2018			
Total System Cost			TPCx-BB Performance Metric				Price/Performance			
1,041,770 USD			3,383.95 BBQpm@30000			307.86 USD \$/BBQpm@30000				
Framework	Operating Sy	stem	Other Software	Availability Date	Sc	cale Factor	Streams			
Cloudera for Apache Hadoop (CDH) 5.11.1	Red Hat Enterprise L Server 7.	inux	None	January 22, 2018		30000	4			
	System Configuration									
A Management Nodes: Rach: Stype 1620-G30 2x Int 260 G300 f140@ 2.30GHz Xx Hold 06 f140@ 2.30GHz xaster m										
Physical Storage/Scale Factor: 12.73 Scale Factor/Physical Memory: 2.3							lemory: 2.37			
Servers:33x I620-G30Total Processors/Cores/Threads66/1,188/2,376										
Server Configuration:Per I620-G30:Processors2x Intel Xeon Gold 6140 @ 2.30 GHzMemory384 GBStorage ControllerLSI 9361 RAID Card, 2GB SAS 12G (worker nodes only)Storage Device1x 480GB 6G SATA SSD2x 1TB 6G SATA 7.3K RPM HDD (management nodes only)12x 1TB 6G SATA 7.3K RPM HDD (worker nodes only)12x 1TB 6G SATA 7.3K RPM HDD (worker nodes only)NetworkIntel 10-Gigabit SFI/SFP+ (dual port)Connectivity:Brocade ICX7750-48F Switch										

Sugon	Sugar Cluster				TPCx-BB Rev. v1.2.0 TPC-Pricing Rev. v2.2.0			
	Sugon Cluster					Report Date: January 22, 2018		
Description	Part Number	Source	Unit Price (\$)	Qty	Extended 3 Price (\$)	3 Year Maint. Price (\$)		
Server Hardware - Management Nodes					(1)			
I620-G30(with P20-D312 chassis)	61006780	1	5,737.28	3	17,211.84	Ļ		
Intel Xeon Gold 6140	62000614	1	2,993.33	6	17,959.98			
32GB DDR4 2Rx8 2667MHz Memories	50000383	1	427.95	36	15,406.20)		
Network Card, 2x10GE Port(82599)	24000829	1	228.97	3	686.91			
480 GB, 2.5inch 6Gb/s SSD	54000554	1	347.82	3	1,043.46	i Included		
1 TB, 7.2k 3.5inch 6Gb/s SATA	54000544	1	91.79	6	550.74	Ļ		
4*3.5" Hard Disk Back plane	24001494	1	30.26	3	90.78			
550W Platinum AC power supply unit	33000186	1	63.21	6	379.26	i		
8038 8K Fan Module	3001379	1	5.90	12	70.80)		
			SubT	otal	53,399.97	Included		
Server Hardware - Worker Nodes								
I620-G30(with P20-D312 chassis)	61006781	1	6,746.53	30	202,395.90)		
Intel Xeon Gold 6140	62000614	1	2,993.33	60	179,599.80)		
32GB DDR4 2Rx8 2667MHz Memories	50000383	1	427.95	360	154,062.00)		
Network Card, 2x10GE Port(82599)	24000829	1	228.97	30	6,869.10)		
480 GB, 2.5inch 6Gb/s SSD	54000554	1	347.82	30	10,434.60)		
1 TB, 7.2k 3.5inch 6Gb/s SATA	54000544	1	91.79	360	33,044.40	Included		
4*3.5" Hard Disk Back plane	24001494	1	30.26	90	2,723.40)		
2*2.5" Rear Hard Disk Back plane Module	3000609	1	2.44	30	73.20)		
LSI 9361 RAID Card, 2GB SAS 12G	24001041	1	295.77	30	8,873.10)		
550W Platinum AC power supply unit	33000186	1	63.21	60	3,792.60)		
8038 8K Fan Module	3001379	1	5.90	120	708.00			
			SubT	otal	602,576.10	Included		

{continues next page}

Sugon	Sugar	Justor			,		Cx-BB Re C-Pricing F	ev. v1.2.0 Rev. v2.2.0
Jugon	Sugon Cluster				Report Date: January 22, 2018			
Description	Part N	umber	Source	Unit Price	(\$)	Qty	Extended Price (\$)	3 Year Maint. Price (\$)
Network BROCADE ICX7750-48F Avago AFBR-709SMZ 10G 850nm SFP+		96002001 3000807	1 1		10	1 66	26,962.50 1,590.60	Included
Monitor/Keyboard/Mouse (includes Lenovo 60F5MAR6US Thinkvision T22	24Z 0E6-009	A-001M8	2	Su 209.	1 <i>bTo</i> 00	tal 3	28,553.10 627.00	
Lenovo Professional Wireless Keyboa	ard and Mouse Combo 9SIA6ZP	5M99142	2	59. Su	.99 1bTo	3 tal	179.97 806.97	
Cloudera Ent Basic Ed 1y r 24x7 RHEL Svr 2 Sckt/2 Gst 3y r 24x7 E-LTU			1 1	2,304. 3,889.	00		228,096.00	Included
			Το		d Pri		356,433.00 1,041,769.14	
Pricing:1 = Sugon; 2 = newegg							st of Ownersh	
⁽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.								00 3,383.95
are components in the configuration.								
Audited by	Doug Johnson of InfoSizing						BBQpm@300	
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard price	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,
Audited by Prices used in TPC benchma components. Individually negoti purchases are not permitted. All see the pricing sections of the TP	rks reflect the actual prices a cu ated discounts are not permitte discounts reflect standard prici C benchmark specifications. If	ed. Specia ing polici you find	al prices les for th that the	based on a e listed cor stated pric	ssun npoi	e pu nptio	urchase of th ons about pa s. For comp	ne stated ast or future lete details,

Sugar	Sugar Cluster	TPCx-BB Rev. v1.2.0 TPC-Pricing Rev. v2.2.0							
Sugon	Sugon Cluster	Report Date: January 22, 2018							
Numerical Quantities									
Scale Factor			30000						
Streams SUT Validation T	est	4 PASS							
	Performance Run (Run 2))							
Overall Run Start		1 17:34:06.821							
Overall Run End		2017-12-1	2 21:18:04.834						
Overall Run Elaps	ed Time		99,838.013						
Load Test Start Ti	me	2017-12-1	1 17:34:06.822						
Load Test End Tir	ne	2017-12-1	1 19:19:25.921						
Load Test Elapsed	Time		6,319.099						
Power Test Start 7	Time	2017-12-11 19:19:25.924							
Power Test End T		2017-12-12	2 02:05:48.207						
Power Test Elapse	ed Time		24,382.283						
Throughput Test S		2017-12-12 02:05:48.208							
Throughput Test H		2017-12-12 21:18:04.834							
Throughput Test F	Elapsed Time		69,136.626						
Performance Metr	ic (BBQpm@ 30000)		3,383.95						
Repeatability Run (Run 1)									
Overall Run Start			0 13:04:02.994						
Overall Run End T		2017-12-11 16:35:03.876							
Overall Run Elaps	ed Time		99,060.882						
Load Test Start Ti	me	2017-12-10 13:04:02.995							
Load Test End Tir	2017-12-10 14:50:56.042								
Load Test Elapsed	Time		6,413.047						
Power Test Start 7	Time	2017-12-10 14:50:56.045							
Power Test End T	2017-12-1	0 21:28:35.474							
Power Test Elapse	ed Time	23,859.429							
Throughput Test S	Start Time	2017-12-10 21:28:35.474							
Throughput Test H		2017-12-11 16:35:03.876							
Throughput Test H	Elapsed Time	68,788.402							
Performance Metr		3,435.53							



Report Date: January 22, 2018

Performance Run Report (Run 2)

***** **TPCx-BB** Result v1.2 ***** INFO: T LOAD = 6319.099 INFO: T LD = 0.1 * T LOAD: 631.9099 INFO: T_PT = 13589.2217300351 INFO: T_T_PUT = 69136.626 INFO: T_TT = 17284.1565 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 = 3383.95742649002

Repeatability Run Report (Run 1)

***** **TPCx-BB** Result v1.2 ***** INFO: T_LOAD = 6413.047 INFO: T_LD = 0.1 * T_LOAD: 641.3047 INFO: T PT = 13217.848388304 INFO: T_T_PUT = 68788.402 INFO: T TT = 17197.1005 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 = 3435.53763619344

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