


		Cisco UCS Mini		TPCx-IoT Rev 1.0.1 TPC-Pricing Rev 2.1.1
				Report Date: November 20, 2017
Total System Cost		TPCx-IoT Performance Metric		Price/Performance
133,662 USD		142,493.85 IoTps		0.94 USD \$/IoTps
Number of Records	DBMS Software	Operating System	Other Software	Availability Date
300 Million	HBase 1.2.1 On Cloudera Distribution for Apache Hadoop 5.10.0	Red Hat Enterprise Linux Server Release 7.2	None	November 20, 2017
System Configuration				
<div> <div> SUT Chassis Front View  </div> <div> SUT Chassis Back View  </div> </div> <p> Cisco UCS Mini Blade 5108 Chassis with 1 x Cisco UCS B200 M4 server (Name Node/HBase Master Node) Server Configuration: 2 x Intel Xeon E5-2680 V4 256 GB Memory 1 x 3.8 TB Samsung SATA 6G SSDs 3 x Cisco UCS B200 M4 servers (HBase Region Servers) Server Configuration: 2 x Intel Xeon E5-2680 V4 256 GB Memory 2 x 3.8 TB Samsung SATA 6G SSDs </p>				
<div> <div> Servers: </div> <div> 4 x Cisco UCS B200 M4 Servers </div> </div> <div> <div> Total Processors/Cores/Threads: </div> <div> 8/112/224 </div> </div> <div> <div> Server Configuration (each): </div> <div> Processors 2 x Intel Xeon CPU E5-2680 v4, 2.4GHz Memory 256 GB Storage Controller 1 x Cisco 12 Gbps RAID Controller Storage Device 2 x 3.8 TB Samsung SATA 6G SSD (Worker Servers) 1 x 3.8 TB Samsung SATA 6G SSD (Management Server) Network 1 x Cisco VIC 1340 Dual Port 40Gb QSFP CNA MLOM Total Rack Units 1 x 5108 Blade Chassis = 6 RU </div> </div>				

		Cisco UCS Mini Blade Server Chassis				TPCx-IoT Rev 1.0.1 TPC-Pricing Rev 2.1.1	
						Report Date: November 20, 2017	
Description	Part Number	Brand	Source	Unit Price	Qty	Extended Price	3 Year Maint. Price
Cisco Unified Computing System	UCS-MINI-Z0001	Cisco	1	\$0.00	1	\$0.00	
UCS 5108 Blade Server AC2 Chassis, 0 PSU/8 fans/0 FEX	UCSB-5108-AC2	Cisco	1	\$5,999.00	1	\$5,999.00	
Fan module for UCS 5108	N20-FAN5	Cisco	1	\$0.00	8	\$0.00	
Single phase AC power module for UCS 5108	N01-UAC1	Cisco	1	\$0.00	1	\$0.00	
Blade slot blanking panel for UCS 5108/single slot	N20-CBLKB1	Cisco	1	\$0.00	4	\$0.00	
6324 Fabric Interconnect License for 40G Scalability Port	UCS-6324-40G	Cisco	1	\$5,548.00	2	\$11,096.00	
Accessory kit for UCS 5108 Blade Server Chassis	N20-CAK	Cisco	1	\$0.00	1	\$0.00	
UCS 5108 Packaging for chassis with half width blades.	UCSB-5108-PKG-HW	Cisco	1	\$0.00	1	\$0.00	
UCS 5108 Blade Chassis FW Package 3.2(1)	N20-FW015	Cisco	1	\$0.00	1	\$0.00	
UCS B200 M4 w/o CPU, mem, drive bays, HDD, mezz	UCSB-B200-M4	Cisco	1	\$2,995.00	4	\$11,980.00	
2.40 GHz E5-2680 v4/120W 14C/35MB Cache/DDR4 2400MHz	UCS-CPU-E52680E	Cisco	1	\$5,259.00	8	\$42,072.00	
32GB DDR4-2400-MHz RDIMM/PC4-19200/dual rank/x4/1.2v	UCS-MR-1X322RV-A	Cisco	1	\$1,735.00	32	\$55,520.00	
Cisco FlexStorage 12G SAS RAID controller with Drive bays	UCSB-MRAID12G	Cisco	1	\$749.00	4	\$2,996.00	
3.8TB 2.5 inch Enterprise Value 6G SATA SSD	UCS-SD38TBMS4-EV	Cisco	1	\$9,600.00	7	\$67,200.00	
Cisco UCS VIC 1340 modular LOM for blade servers	UCSB-MLOM-40G-03	Cisco	1	\$1,499.00	4	\$5,996.00	
Cisco M4 - v4 CPU asset tab ID label (Auto-Expand)	UCS-M4-V4-LBL	Cisco	1	\$0.00	4	\$0.00	
CPU Heat Sink for UCS B200 M4/B420 M4 (Rear)	UCSB-HS-EP-M4-R	Cisco	1	\$0.00	4	\$0.00	
CPU Heat Sink for UCS B200 M4/B420 M4 (Front)	UCSB-HS-EP-M4-F	Cisco	1	\$0.00	4	\$0.00	
Cisco ONE Data Center Compute Opt Out Option	C1UCS-OPT-OUT	Cisco	1	\$0.00	4	\$0.00	
2500W Platinum AC Hot Plug Power Supply - DV	UCSB-PSU-2500ACDV	Cisco	1	\$936.00	4	\$3,744.00	

NEMA 6-20 to IEC-C19 13ft US	CAB-US620P-C19-US	Cisco	1	\$0.00	4	\$0.00	
UCS 6324 In-Chassis FI with 4 UP, 1x40G Exp Port, 16 10Gb	UCS-FI-M-6324	Cisco	1	\$22,000.00	2	\$44,000.00	
UCS Manager v3.2(1)	N10-MGT015	Cisco	1	\$0.00	1	\$0.00	
3Y SMARTNET 24x7x4 UCS B200 M4 Blade Server Support	CON-SNTP-B200M4	Cisco	1	\$1,221.00	4		\$4,884
Cisco R42612 standard rack w/side panels	RACK2-UCS2	Cisco	1	\$6,341.00	1		
3Y Support 24x7x4 UCS6324 In-Chs w/4UP 1x40G Exp Prt	CON-SNTP-FI6324U	Cisco	1	\$1,077.00	2		\$2,154
Red Hat Enterprise Linux Server, 3Y 24x7	CON-ISV1-EL2S2V3A	Cisco	1	\$3,897.00	4	\$3,897.00	Inc.
Cloudera Enterprise Edition, 3Y 24x7	UCS-BD-CEBN-GD=	Cisco	1	\$14,057.00	4	\$56,228.00	Inc.
3Y Support 24x7x4 UCS 5108 Mini Chassis SNTC for TrblShtg	CON-OSPT-SP5108AC	Cisco	1	\$891.00	1		\$891
					Total	\$328,760.00	\$7,929
Large Purchase Discount ¹	61% for products and 35% for service	Cisco	1			(\$200,543.60)	-\$2,775
Acer V206HQL-LED monitor - 20" (Inc 2 spares)	UM.1V6AA.A02	CDW	2	\$78.99	3	\$236.97	
Logitech USB Corded Keyboard/Mouse Combo MK120 (Inc 2 spares)	920-002565	CDW	2	\$17.99	3	\$53.97	

Pricing: 1 = Cisco, 2 = CDW.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.

Three-Year Cost of Ownership \$133,662

IoTps 142,493.85

\$/IoTps 0.94

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.



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TPC-Pricing Rev 2.1.1

Report Date:
November 20, 2017

Measurement Results for Performance Run

Number of Records	300 Millions
Warm Up Run Start Time	2017-11-10 15:50:40
Warm Up Run End Time	2017-11-10 16:34:35
Warm Up Run Elapsed Time in Seconds	2,634.47
Measured Run Start Time	2017-11-10 16:34:35
Measured Run End Time	2017-11-10 17:09:41
Measured Run Elapsed Time in Seconds	2,105.35

Measurement Results for Repeatability Run

Number of Records	300 Millions
Warm Up Run Start Time	2017-11-10 17:17:40
Warm Up Run End Time	2017-11-10 17:58:26
Warm Up Run Elapsed Time in Seconds	2,446.22
Measured Run Start Time	2017-11-10 17:58:26
Measured Run End Time	2017-11-10 18:32:58
Measured Run Elapsed Time in Seconds	2,071.25



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Report Date:
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Run Report for Performance Run

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TPCx-IoT Performance Metric (IoTps) Report

Total Time in Seconds = 2,105.35

Total Number of Records = 300 Millions

TPCx-IoT Performance Metric (IoTps): 142,493.85

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Run Report for Repeatability Run

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TPCx-IoT Performance Metric (IoTps) Report

Total Time in Seconds = 2,071.26

Total Number of Records = 300 Millions

TPCx-IoT Performance Metric(IoTps): 144,839.65

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