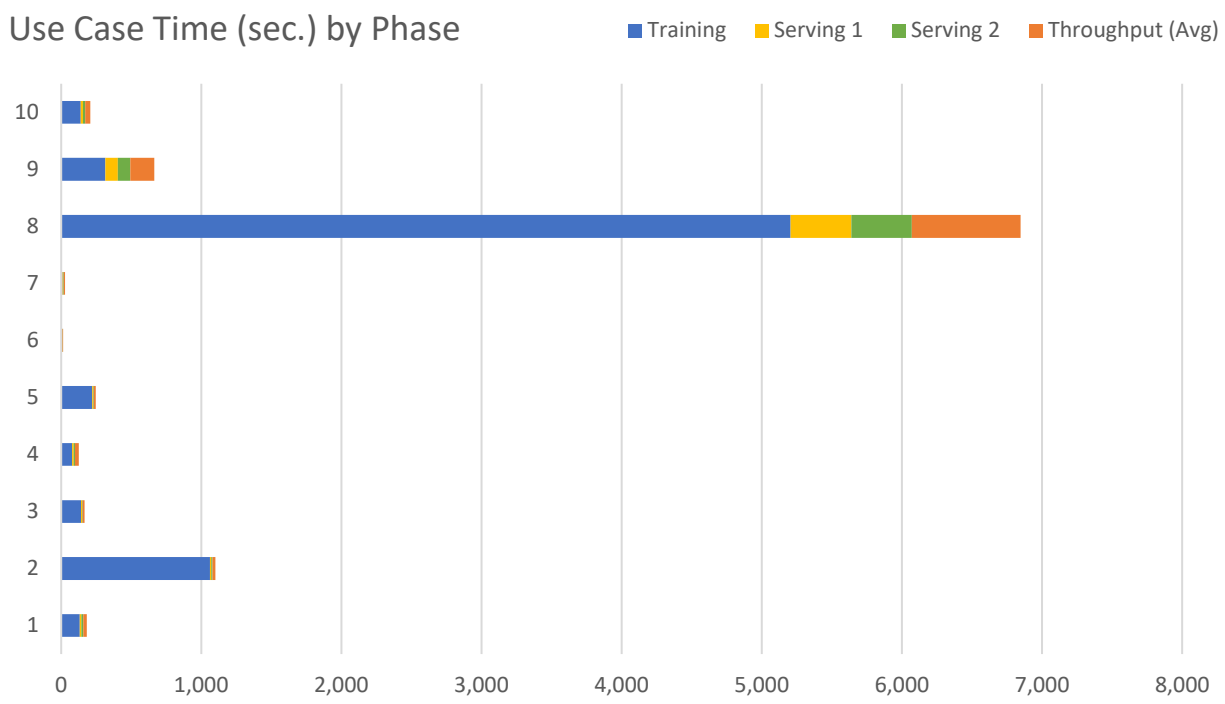
Hewlett Packard Enterprise	ProLiant DL380a Gen11	TPCx-AI 1.0.2 TPC Pricing 2.8.0 Report Date Jun. 12, 2023

TPCx-AI Performance	Total System Cost	Price/Performance	Availability Date
618.97 AIUCpm@10	**$89,568 USD**	**$144.71 USD/AIUCpm@10**	**June 12, 2023**

Framework	Operating System	Other Software	Scale Factor	Streams
Anaconda Pro	Red Hat Enterprise Linux 8.6	N/A	10	100



Physical Storage / Scale Factor	Scale Factor / Physical Memory	Main Data Redundancy Model
96.00	0.01	RAID 1

Servers: Total Processors/Cores/Threads	1 2 / 64 / 128

Server Type	1x ProLiant DL380a Gen11 (Server)
Processors	2x Intel(R) Xeon(R) Platinum 8462Y+ (2.8 GHz, 32-core)
Memory	1,024 GiB
Storage Controller	1x NS204i-u Gen11
Storage Device	2x 480 GB NVMe
Network Controller	1x Mellanox MCX562A-ACAI 10/25Gb 2-port

Hewlett Packard Enterprise

ProLiant DL380a Gen11

TPCx-AI	1.0.2
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Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
Server Hardware						
HPE DL380a Gen11 4DW CTO Svr	P05175-B21	1	$3,392.00	1	$3,392.00	
Intel Xeon-Platinum 8462Y+ 2.8GHz 32-core 300W Processor for HPE	P49603-B21	1	$14,268.00	2	$28,536.00	
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43331-B21	1	$4,068.00	16	$65,088.00	
HPE Alletra 4120 High Performance Heat Sink Kit	P51832-B21	1	$175.00	2	$350.00	
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21	1	$685.00	2	$1,370.00	
HPE MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	P10112-B21	1	$1,040.00	1	$1,040.00	
HPE 3 Year Tech Care Essential wDMR DL380a Gen11 HW Service	H38YLE	1	$22,626.00	1		$22,626.00
HPE USB US Keyboard/Mouse Kit (incld 2 spares)	631341-B21	1	$32.00	3	$96.00	
HPE 42U 600x1200mm Adv G2 Kit Shock Rack	H6J67A	1	$6,600.00	1	$6,600.00	
				Subtotal	**$106,472.00**	**$22,626.00**
Storage						
HPE NS204i-u Gen11 Ht Plg Boot Opt Dev	P48183-B21	1	$1,994.00	1	$1,994.00	
HPE DL3XX Gen11 Ball Bearing Rail 8 Kit	P52345-B21	1	$375.00	1	$375.00	
				Subtotal	**$2,369.00**	**$0.00**
Other						
HP V22v G5 FHD Monitor (incld 2 spares)	65P56AA#ABA	3	$129.99	3	$389.97	
				Subtotal	**$389.97**	**$0.00**
Software Components						
RHEL Svr Sckt/2 Gst 1yr 24x7 E-LTU	J8J36A	1	$1,214.00	1	$1,214.00	
Anaconda Pro Subscription	NA	2	$10,000.00	1	$10,000.00	
				Subtotal	**$11,214.00**	**$0.00**
				Total Extended Price	$120,444.97	$22,626.00
				Total Discounts	$48,978.00	$4,525.00
				Grand Totals	$71,466.97	$18,101.00

Pricing: 1 = HPE; 2 = Anaconda;3 = Hewlett Packard Inc.

* All discounts are based on US list prices and for similar quantities and configurations. A discount was based on the overall specific components pricing from vendor 1 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.

Audited by Doug Johnson, InfoSizing

Total System Cost (USD): $89,568

AIUCpm@10: 618.97

$/AIUCpm@10: $144.71

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated Line Items. 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 Line Items. For complete details, see the pricing section of the TPC Benchmark Standard. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

Hewlett Packard Enterprise

ProLiant DL380a Gen11

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Numerical Quantities

AIUCpm@10	**618.97**	T_{Load}	3.90
Scale Factor	10	T_{LD}	3.90
Streams	100	T_{PTT}	152.56
		T_{PST1}	12.47
Kit Version	1.0.2	T_{PST2}	12.56
Execution Status	Pass	T_{PST}	12.56
Accuracy Status	Pass	T_{TT}	1.18

Test Times

Overall Run Start Time	2023-05-04 20:12:49.629
Overall Run End Time	2023-05-04 23:00:16.969
Overall Run Elapsed Time	10,047.340
Load Test Start Time	2023-05-04 20:15:37.280
Load Test End Time	2023-05-04 20:15:41.197
Load Test Elapsed Time	3.917
Power Training Start Time	2023-05-04 20:15:41.200
Power Training End Time	2023-05-04 22:17:40.394
Power Training Elapsed Time	7,319.194
Power Serving 1 Start Time	2023-05-04 22:17:40.397
Power Serving 1 End Time	2023-05-04 22:27:27.844
Power Serving 1 Elapsed Time	587.447
Power Serving 2 Start Time	2023-05-04 22:27:27.847
Power Serving 2 End Time	2023-05-04 22:37:14.850
Power Serving 2 Elapsed Time	587.003
Scoring Start Time	2023-05-04 22:38:12.937
Scoring End Time	2023-05-04 22:40:35.402
Scoring Elapsed Time	142.465
Throughput Start Time	2023-05-04 22:40:35.421
Throughput End Time	2023-05-04 23:00:16.966
Throughput Elapsed Time	1,181.545

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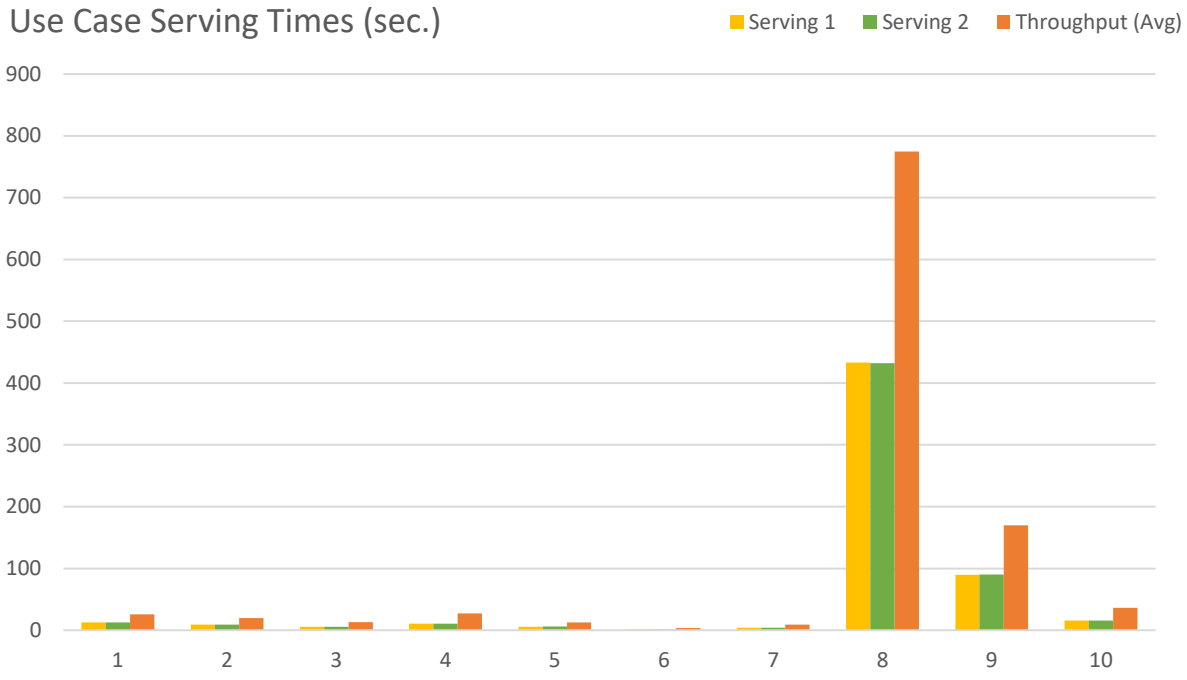
Numerical Quantities (continued)

Use Case Times & Accuracy

Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (avg)	Accuracy
UC01	132.763	12.791	12.815	25.492	0.000
UC02	1,062.946	8.921	8.965	19.551	0.255
UC03	142.729	5.512	5.558	12.936	3.609
UC04	78.300	10.549	10.449	27.376	0.707
UC05	222.770	5.703	5.823	12.570	0.083
UC06	8.207	0.974	0.995	3.382	0.548
UC07	10.293	3.977	4.088	9.077	1.030
UC08	5,206.010	433.246	432.219	774.821	0.726
UC09	314.499	89.799	90.105	169.648	1.000
UC10	140.575	15.869	15.884	36.385	0.816