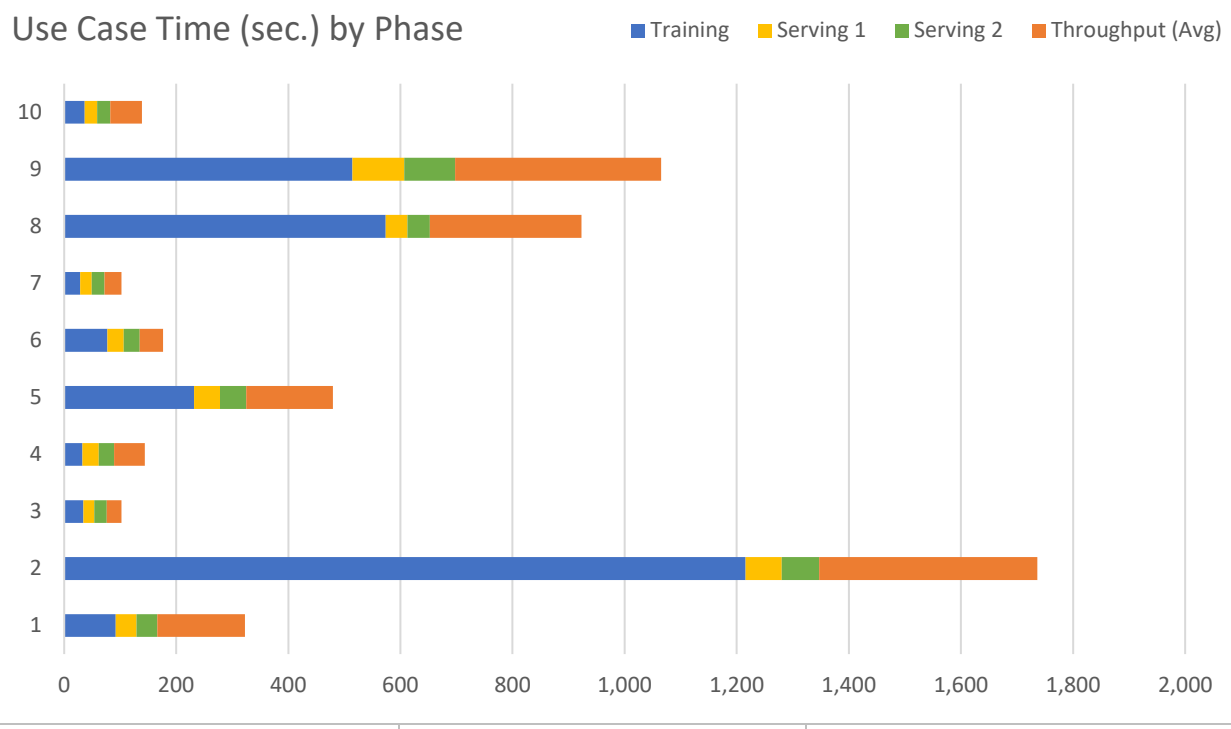
Hewlett Packard Enterprise	ProLiant DL380 Gen11	TPCx-AI 2.0.0 TPC Pricing 2.9.0 Report Date Mar. 07, 2025

TPCx-AI Performance	Total System Cost	Price/Performance	Availability Date
1,600.16 AIUCpm@100	**$867,492 USD**	**$542.13 USD/AIUCpm@100**	**March 7, 2025**

Framework	Operating System	Other Software	Scale Factor	Streams
Cloudera 7.1.9	Red Hat Enterprise Linux 8.9 (Ootpa)	N/A	100	54



Physical Storage / Scale Factor	Scale Factor / Physical Memory	Main Data Redundancy Model
879.20	0.01	Replication 3

Servers: Total Processors/Cores/Threads	10 20 / 624 / 1,248

Server Type	8x ProLiant DL380 Gen11 (Compute)	2x ProLiant DL380 Gen10 Plus (Controller)
Processors	2x Intel(R) Xeon(R) Platinum 8562Y+ CPU @ 2.80GHz	2x Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz
Memory	1,024 GiB	512 GiB
Storage Controller	1x NS204i-u Gen11 (7 nodes)	1x MR416i-p Gen10+ or P408i-a SR Gen10
Storage Device	2x 480 GB NVMe SSD (7 nodes) 3x 3.2 TB NVMe SSD (7 nodes) 4x 3.2 TB NVMe SSD (1 node)	2x 300 GB 15K SAS
Network Controller	1x InfiniBand NDR200/Ethernet 200GbE 2-port	1x MCX623106AS CDAT Ethernet 100Gb 2-port
Connectivity	1x CX 8360-12C v2 12-port 100G (Compute); 1x CX 5420 24p 10M/100M/1G (Manage)	

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Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
Server Hardware						
HPE ProLiant DL380 Gen11 8SFF CPU1/2 NVMe Cable Kit	P48825-B21	1	$2,127.00	8	$17,016.00	
Intel Xeon-Platinum 8562Y+ 2.8GHz 32-core 300W Processor for HPE	P67085-B21	1	$11,296.00	16	$180,736.00	
HPE 64GB (1x64GB) Dual Rank x4 DDR5-5600 CAS-46-45-45 EC8 Registered Smart Memory Kit	P43331-B21	1	$4,960.00	128	$634,880.00	
HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	P48183-B21	1	$1,994.00	7	$13,958.00	
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63849-B21	1	$6,555.00	25	$163,875.00	
HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter	P65333-B21	1S	$7,331.00	8	$58,648.00	
Intel E810 2-port for HPE	P08443-B21	1	$756.00	8	$6,048.00	
HPE ProLiant DL360 Gen11 CPU1 to OCP2 x8 Enablement Kit	P51911-B21	1	$120.00	8	$960.00	
					$0.00	
HPE ProLiant DL380 Gen10 Plus 2U 8SFF x1 Tri-Mode 24G U.3 BC Front Drive Cage Kit	P27194-B21	1	$737.00	2	$1,474.00	
Intel Xeon-Gold 6330 2.0GHz 28-core 205W Processor for HPE	P36927-B21	1	$3,758.00	4	$15,032.00	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06033-B21	1	$1,524.00	32	$48,768.00	
HPE 300GB 15K 12G SFF SAS SC	870753-B21	1	$231.00	4	$924.00	
HPE ProLiant DL380 Gen10 Plus x8/x16/x8 Primary FIO Riser Kit	P37038-B21	1	$215.00	2	$430.00	
HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller	P26279-B21	1	$2,299.00	1	$2,299.00	
HPE Smart Array P408i-a SR Gen10 12G SAS Controller	804331-B21	1	$1,128.00	1	$1,128.00	
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21	1	$485.00	2	$970.00	
HPE MCX623106AS CDAT Ethernet 100Gb 2 port QSFP56 Adapter	P25960-B21	1	$4,373.00	2	$8,746.00	
Network Hardware						
HPE Aruba Networking CX 8360-12C v2 12-port 100G QSFP+/QSFP28	JL709C	1	$32,735.00	1	$32,735.00	
HPE Aruba Networking 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL307A	1	$734.00	10	$7,340.00	
HPE Aruba Networking CX 5420 24p 10M/100M/1G Class4 PoE Module - switch	S0U62A	1	$6,149.00	1	$6,149.00	
HPE 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A	1	16	10	$160.00	
HPE 3 Year Tech Care Essential wDMR DL380a Gen11 HW Service	H38YLE	1	22626	1		$22,626.00
HPE 42U 600mmx1200mm G2 Enterprise Shock Rack	P9K40A	1	$6,200.00	1	$6,200.00	
				Subtotal	**$1,208,476.00**	**$22,626.00**
Other						
HPE USB US Keyboard/Mouse Kit	631341-B21	1	24.99	3	$74.97	
HP M22f FHD Monitor	2D9J9AA#ABA	2	144.99	3	$434.97	
				Subtotal	**$509.94**	**$0.00**
Software						
RHEL Svr Sckt/2 Gst 1yr 24x7 E-LTU	J8J36A	1	$1,214.00	10	$12,140.00	
CDP Private Cloud Base Edition - Business Select	CDP-PVC-BASE-SLT	1	$5,462.50	10	$54,625.00	
				Software Subtotal	**$66,765.00**	**$0.00**
				Total Extended Price	**$1,275,750.94**	**$22,626.00**
				Total Discounts	**$422,966.00**	**$7,919.00**

Pricing: 1 = HPE; 2 = HP.com

* Discount applies to Server/Network line items where Key = 1. Discount based upon total system cost as purchased by a regular customer.

One or more components of the Measured Configuration have been substituted in the Priced Configuration. See the FDR for details.

Audited by Doug Johnson, InfoSizing

Total System Cost (USD):	**$867,492**
AIUCpm@100:	**1,600.16**
$/AIUCpm@100:	**$542.13**

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.

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Numerical Quantities

AIUCpm@100	**1,600.16**	T_{Load}	141.69
Scale Factor	100	T_{LD}	141.69
Streams	54	T_{PTT}	121.33
		T_{PST1}	35.39
Kit Version	2.0.0	T_{PST2}	36.20
Execution Status	Pass	T_{PST}	36.20
Accuracy Status	Pass	T_{TT}	3.18

Test Times

Overall Run Start Time	2025-01-29 06:57:55.787
Overall Run End Time	2025-01-29 08:47:16.266
Overall Run Elapsed Time	6,560.479
Load Test Start Time	2025-01-29 03:04:52.203
Load Test End Time	2025-01-29 03:07:16.791
Load Test Elapsed Time	144.588
Power Training Start Time	2025-01-29 03:07:16.859
Power Training End Time	2025-01-29 03:54:49.762
Power Training Elapsed Time	2,852.903
Power Serving 1 Start Time	2025-01-29 03:54:49.848
Power Serving 1 End Time	2025-01-29 04:01:45.492
Power Serving 1 Elapsed Time	415.644
Power Serving 2 Start Time	2025-01-29 04:01:45.570
Power Serving 2 End Time	2025-01-29 04:08:46.560
Power Serving 2 Elapsed Time	420.990
Scoring Start Time	2025-01-29 04:12:02.561
Scoring End Time	2025-01-29 04:18:04.459
Scoring Elapsed Time	361.898
Throughput Start Time	2025-01-29 04:18:04.586
Throughput End Time	2025-01-29 04:47:16.263
Throughput Elapsed Time	1,751.677

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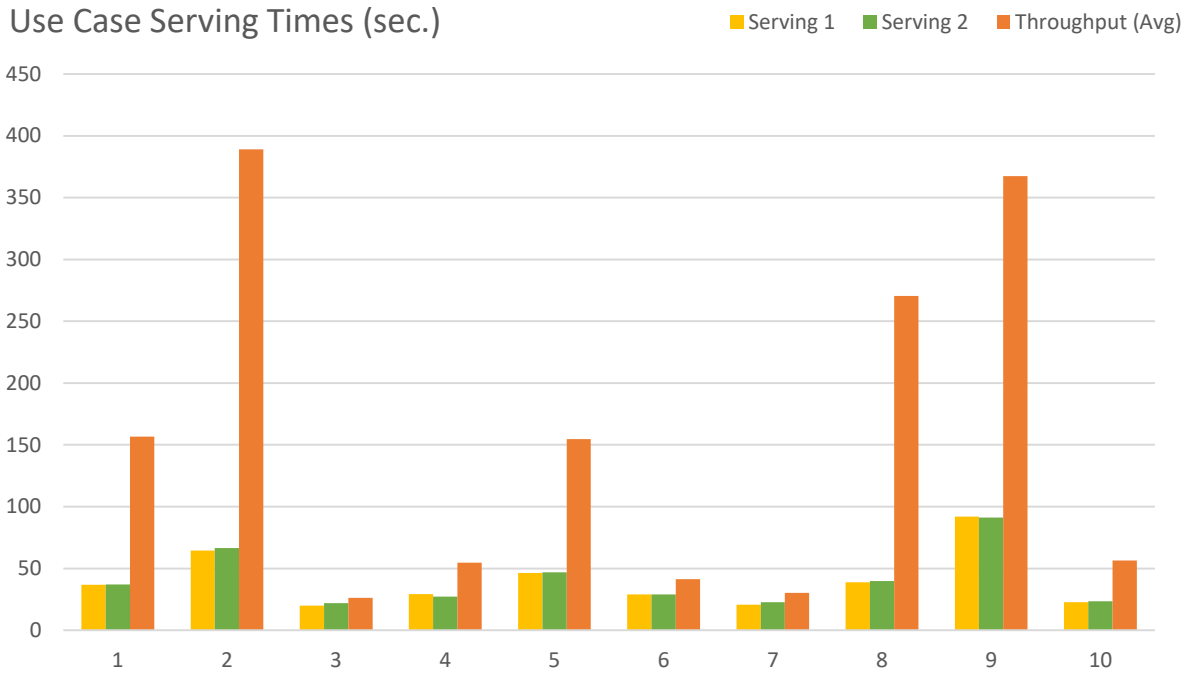
Numerical Quantities (continued)

Use Case Times & Accuracy

Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (avg)	Accuracy
UC01	92.237	36.724	37.077	156.562	0.000
UC02	1,215.930	64.606	66.461	389.176	0.457
UC03	34.131	19.842	21.984	26.136	3.885
UC04	32.885	29.183	27.259	54.669	0.694
UC05	231.837	46.398	46.763	154.738	0.084
UC06	77.189	28.865	28.939	41.268	0.204
UC07	28.484	20.680	22.729	30.157	1.307
UC08	573.633	38.795	39.899	270.592	0.757
UC09	514.635	91.932	91.131	367.508	0.990
UC10	36.497	22.678	23.421	56.341	0.816