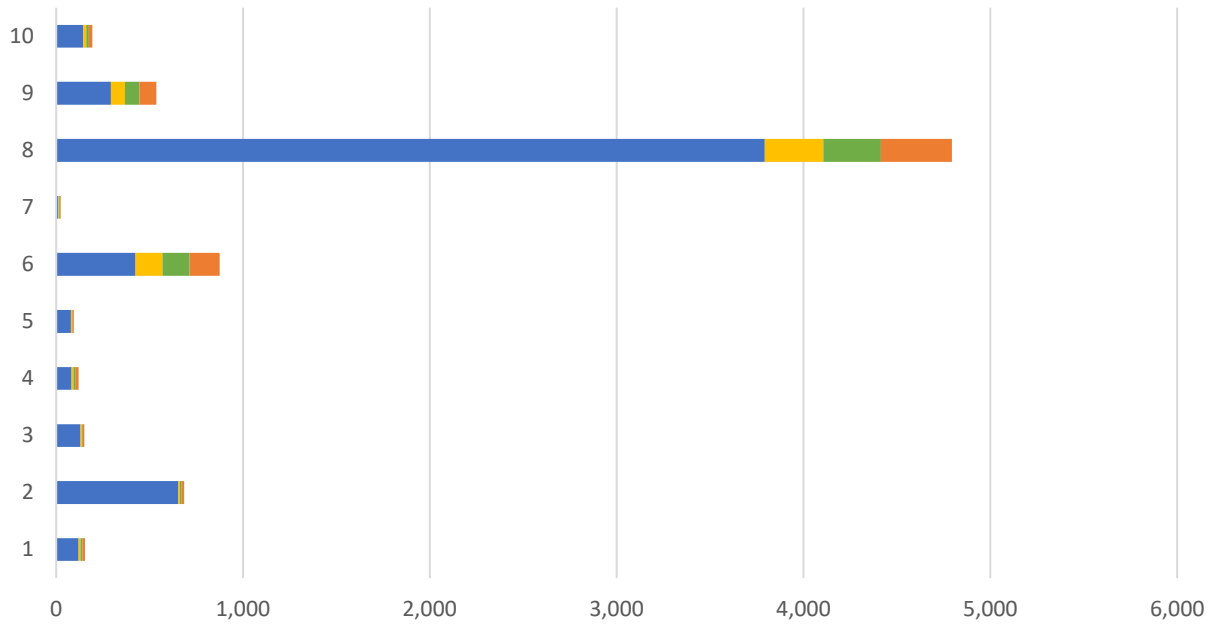


 Hewlett Packard Enterprise	<h1>DL325 Gen11</h1>		TPCx-AI 1.0.2 TPC Pricing 2.8.0 Report Date Mar. 27, 2023																																																								
TPCx-AI Performance 517.77 AIUCpm@10	Total System Cost \$36,008 USD	Price/Performance \$69.55 USD/AIUCpm@10	Availability Date March 27, 2023																																																								
Framework Anaconda Pro	Operating System Red Hat Enterprise Linux 8.6	Other Software N/A	Scale Factor 10	Streams 32																																																							
<div style="display: flex; justify-content: space-between;"> <div data-bbox="235 657 688 695"> <h3>Use Case Time (sec.) by Phase</h3> </div> <div data-bbox="850 663 1445 695"> ■ Training ■ Serving 1 ■ Serving 2 ■ Throughput (Avg) </div> </div>  <table border="1" data-bbox="235 724 1445 1344"> <caption>Approximate Use Case Time (sec.) by Phase</caption> <thead> <tr> <th>Use Case</th> <th>Training (sec)</th> <th>Serving 1 (sec)</th> <th>Serving 2 (sec)</th> <th>Throughput (Avg) (sec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>2</td><td>1500</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>3</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>4</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>5</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>6</td><td>1000</td><td>500</td><td>500</td><td>500</td></tr> <tr><td>7</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>8</td><td>3800</td><td>500</td><td>500</td><td>500</td></tr> <tr><td>9</td><td>1000</td><td>500</td><td>500</td><td>500</td></tr> <tr><td>10</td><td>100</td><td>50</td><td>50</td><td>50</td></tr> </tbody> </table>					Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (Avg) (sec)	1	100	50	50	50	2	1500	50	50	50	3	100	50	50	50	4	100	50	50	50	5	100	50	50	50	6	1000	500	500	500	7	100	50	50	50	8	3800	500	500	500	9	1000	500	500	500	10	100	50	50	50
Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (Avg) (sec)																																																							
1	100	50	50	50																																																							
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7	100	50	50	50																																																							
8	3800	500	500	500																																																							
9	1000	500	500	500																																																							
10	100	50	50	50																																																							
Physical Storage / Scale Factor 96.00	Scale Factor / Physical Memory 0.03	Main Data Redundancy Model RAID 1																																																									
Servers: Total Processors/Cores/Threads	1 1 / 32 / 64																																																										
Server Type Processors Memory Storage Controller Storage Device Network Controller	1x ProLiant DL325 Gen11 (Server) 1x AMD EPYC 9374F 32-Core Processor GHz 384 GiB 1x NS204i-u Gen11 2x 480 GB NVMe 1x Intel I350 4-port																																																										

 Hewlett Packard Enterprise		<h1>DL325 Gen11</h1>			TPCx-AI 1.0.2 TPC Pricing 2.8.0 Report Date Mar. 27, 2023	
Description	Part Number	Source	List Price	Qty	Extended Price	1-Yr. Maintenance
Hardware						
HPE DL325 Gen11 8SFF CTO Server	P54199-B21	1	\$2,767.00	1	\$2,767.00	
AMD EPYC 9374F 3.85GHz 32-core 320W Processor for HPE	P53710-B21	1	\$11,087.00	1	\$11,087.00	
HPE ProLiant DL3X5 Gen11 CPU Performance 1U Heat Sink Kit	P58457-B21	1	\$225.00	1	\$225.00	
HPE ProLiant DL3XX Gen11 1U Performance Fan Kit	P58462-B21	1	\$113.00	1	\$113.00	
HPE 32GB 2RX8 DDR5-4800 Smart kit	P50311-B21	1	\$2,465.00	12	\$29,580.00	
HPE 800W FS Plat Ht Plug LH PS Kit	P38995-B21	1	\$524.00	2	\$1,048.00	
HPE USB US Keyboard/Mouse Kit	631341-B21	1	\$32.00	3	\$96.00	
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21	1	\$1,102.00	1	\$1,102.00	
Add to Rack 48U 600mmx1075mm G2 Advanced Pallet	P9K19A	1	\$3,023.00	1	\$3,023.00	
HPE 3 Year Tech Care Essential DL325 Gen11 Service	H7856E	1	\$2,958.00	1		\$2,958.00
Subtotal					\$49,041.00	\$2,958.00
Storage						
NS204i-u Gen11 OS Boot, RAID 1	P48183-B21	1	\$2,005.00	1	\$2,005.00	
HPE Gen 11 EI Rail Kit	P52351-B21	1	\$34.48	1	\$34.48	
HPE DL325G11 Standard Riser	standardDL385G11Riser	1		1	\$0.00	
Subtotal					\$2,039.48	\$0.00
Other						
HP V22v G5 FHD Monitor	65P56AA	3	\$129.99	3	\$389.97	
Subtotal					\$389.97	\$0.00
Software Components						
RHEL Svr Sckt/2 Gst 1yr 24x7 E-LTU	J8J36A	1	\$1,299.00	1	\$1,299.00	
Anaconda Pro Subscription	N/A	2	\$10,000.00	1		\$10,000.00
Subtotal					\$1,299.00	\$10,000.00
Total Extended Price					\$52,769.45	\$12,958.00
Total Discounts					\$28,094.00	\$1,626.00
Grand Total					\$24,675.45	\$11,332.00
Pricing: 1 = HPE; 2 = Anaconda; 3 = Hewlett Packard, Inc. * Discount applies to all hardware line items where Key = 1. Discount based upon total system cost as purchased by a regular customer. Audited by Doug Johnson, InfoSizing				Total System Cost (USD): \$36,008 AIUCpm@10: 517.77 \$/AIUCpm@10: \$69.55		
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	<h1>DL325 Gen11</h1>	TPCx-AI 1.0.2 TPC Pricing 2.8.0 Report Date Mar. 27, 2023	
<u>Numerical Quantities</u>			
AIUCpm@10 Scale Factor Streams Kit Version Execution Status Accuracy Status	517.77 10 32 1.0.2 Pass Pass	T _{Load} T _{LD} T _{PTT} T _{PST1} T _{PST2} T _{PST} T _{TT}	2.30 2.30 186.38 18.46 18.41 18.46 2.28
Test Times			
Overall Run Start Time Overall Run End Time Overall Run Elapsed Time	2023-02-16 11:38:00.964 2023-02-16 13:50:01.515 7,920.551		
Load Test Start Time Load Test End Time Load Test Elapsed Time	2023-02-16 11:39:56.856 2023-02-16 11:39:59.168 2.312		
Power Training Start Time Power Training End Time Power Training Elapsed Time	2023-02-16 11:39:59.169 2023-02-16 13:15:35.211 5,736.042		
Power Serving 1 Start Time Power Serving 1 End Time Power Serving 1 Elapsed Time	2023-02-16 13:15:35.212 2023-02-16 13:25:26.333 591.121		
Power Serving 2 Start Time Power Serving 2 End Time Power Serving 2 Elapsed Time	2023-02-16 13:25:26.334 2023-02-16 13:35:13.549 587.215		
Scoring Start Time Scoring End Time Scoring Elapsed Time	2023-02-16 13:35:50.364 2023-02-16 13:37:51.334 120.970		
Throughput Start Time Throughput End Time Throughput Elapsed Time	2023-02-16 13:37:51.340 2023-02-16 13:50:01.514 730.174		



DL325 Gen11

TPCx-AI 1.0.2
 TPC Pricing 2.8.0
 Report Date Mar. 27, 2023

Numerical Quantities (continued)

Use Case Times & Accuracy

Use Case	Training (sec)	Serving 1 (sec)	Serving 2 (sec)	Throughput (avg)	Accuracy
UC01	120.225	10.382	10.332	13.605	0.000
UC02	654.090	8.617	8.655	14.603	0.425
UC03	131.280	5.670	5.582	8.084	3.609
UC04	82.538	10.747	10.884	15.894	0.707
UC05	79.180	4.409	4.382	6.639	0.465
UC06	424.810	144.534	144.927	161.298	0.548
UC07	10.852	3.824	3.792	5.171	1.031
UC08	3,793.418	312.561	308.296	381.139	0.733
UC09	293.481	75.727	75.702	91.608	1.000
UC10	146.105	14.586	14.600	19.272	0.816

Use Case Serving Times (sec.)

