TPC-H Rev. 3.0.1 HPE ProLiant DL345 Gen11 TPC Pricing Rev. 2.9.0 **Hewlett Packard** Report Date: (with AMD EPYC 9375F) **Enterprise** November 10, 2025 Total System Cost Composite Query per Hour Rating Price/Performance 1,700,864.3 \$216.31 USD \$367,905 USD \$ / kQphH @ 3,000GB QphH @ 3,000GB Database Size Database Manager Operating System Other Software Availability Date Microsoft® **Microsoft Windows** 3,000GB **SQL Server 2025** None May 22,2026 Server 2025 **Enterprise Edition** 5.46 - Power Test Geometric Mean of Query & Refresh Times RF2 RF1 57.82 - Throughput Arithmetic Mean of Query Times 021 020 Q19 Q18 Q17 Q16 Power Run ■ Throughput Run ---- Geometric Mean of Power Test Q12 011 Arithmetic Mean of Throughput Test Q10 09 08 Q7 06 Q5 Q4 Q3 Q2 50 100 200 250 Database Load Time = 0d 02h 11m 46s Storage Redundancy Level Load included backup: Y Base Tables and Auxiliary Data Structures No RAID Total Data Storage / Database Size = 12.22 DB Root, transaction log, DB Backup **Software RAID** Memory/Database Size = 51.2% transaction logs Hardware RAID 1 **System Total System Components** Nodes: AMD® EPYC 9375F @ 3.85GHz: Cores/Threads: 32/64 Memory: 1536 GiB 3.84TB NVMe Drives 10 RAID1 Boot Controller with 480GB M.2 NVMe Total Storage: 36,656.86 GiB

Hewlett Packard Enterprise

HPE ProLiant DL345 Gen11

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Description	PriceKey	Part Number	Unit Price	Qty	Extended Price	3 Yr Maint Price
Server Hardware						
HPE DL345 Gen11 EDSFF CTO Svr	1	P54207-B21	\$4,200	1	\$4,200	
AMD EPYC 9375F CPU for HPE	1	P72667-B21	\$10,612	1	\$10,612	
HPE DL3X5 Gen11 Perf 2U Heat Sink Kit	1	P58459-B21	\$256	1	\$256	
HPE DL3X5 Gen11 2U Perf Fan Kit	1	P58465-B21	\$160	1	\$160	
HPE 128GB 2Rx4 PC5-6400B-R Smart Kit	1	P69730-B21	\$13,778	12	165,336	
HPE 1600W FS Plat Ht Plg LH Pwr Sply Kit	1	P38997-B21	\$890	2	\$1,780	
MLX MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adptr	1	P25960-B21	\$1,500		\$1,500	
HPE 48U 600x1075mm Adv G2 Kit Pllt Rack	1	P9K19A	\$3,023	1	\$3,023	
HPE 3Y TC Ess DL345 Gen11 SVC	1	H78X5E	\$3,962	1		\$3,962
			Subtotal		\$186,867	\$3,962
Storage						
HPE 3.84TB NVMe RI E3S EC1 PM1743 SSD	1	P57799-B21	\$7,826		\$78,260	
HPE NS204i-u Gen11 Ht Plg Boot Opt Dev	1	P48183-B21	\$1,795	1	\$1,795	
HPE DL3X5 G11 NS204i-u NVMe Boot Cbl Kit	1	P57013-B21	\$83	1	\$83	
HPE DL345 Gen11 20EDSFF x4 FIO Kit	1	P64383-B21	\$1,192		\$1,192	
HPE DL345 G11 2SFF x4 TM BC Kit	1	P57110-B21	\$756		\$756	
HPE DL3XX Gen11 Easy Install Rail 2 Kit HPE DL345G11 Standard Riser	1	P52351-B21 standardDL345G	\$141	1 1	\$141	
THE DESTSOTT Standard Risci	1	standardDL343G	Subtotal		\$82,227	\$0
Other			Subtotal		Ψ02,227	
HP Series 5 23.8 inch FHD White Monitor + HP Wireless		94C21AA/				
Mouse and Keyboard 300 Bundle	3	3ML04AA	\$150	3	\$450	
•			Subtotal		\$450	\$0
Software Components						
SQL Server 2025 Enterprise Edition (2 core license)	2	N/A	\$15,123	16	\$241,968	
Microsoft Problem Resolution Services	2	N/A	\$259			\$259
Windows Server 2025 Standard Edition (16 core license)	2	N/A	1,176	2	2,352	
			Subto	tal	\$244,320	\$259
		Total Extended Price			\$513,864	\$4,221
		Total Discounts			\$148,001	\$2,179
Price Key: 1 - HPE, 2 - Microsoft, 3 - Hewlett Packard Inc.	•	Grand Total			\$365,862.60	\$2,042
Audited by Doug Johnson of InfoSizing (www.sizing.com) All discounts are based on US list prices and for similar quantities and	3 year cost of o	wnorship II	cn.		\$367,905.00	
configurations. A 55% discount was based on the overall specific comp	"	•				
pricing from vendor 1 in this single quotation. Discounts for similarly	Qphl	H @ 3,000G	B :		1,700,864.3	
configurations will be similar to those quoted here, but may vary based	¢ HCD/Onkii /	@ 2 000CD			\$216.31	
components in the configuration.	\$ USD/QphH (w s,uuuGB			5410.31	

 $Sales\ contact:\ HPE\ WW\ Headquarters,\ 3000\ Hanover\ St.,\ Palo\ Alto,\ CA\ 94304-1185\ \ (855)472-5233\ /\ (800)786-7967\ /\ (888)269-4073\ \ (US)$

Microsoft Corporation, One Microsoft Way, Redmond, WA 98052-6399 (425) 882 8080

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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Numerical Quantities

Measurement Results

Database Scale Factor3,000Total Data Storage / Database Size12.22Percentage Memory / Database Size51.2%

 Start of Database Load
 2025-11-03 07:55:59

 End of Database Load
 2024-11-03 10:07:45

 Database Load Time
 00d 02h 11m 46s

Query Streams for Throughput Test 8

 TPC-H Power
 1,977,450.8

 TPC-H Throughput
 1,462,964.1

 TPC-H Composite Query-per-Hour (QphH@3,000GB)
 1,700,864.3

 Total System Price over 3 Years (\$ USD)
 \$367,905

 TPC-H Price/Performance Metric (\$ USD / kQphH@3,000GB)
 \$216.31

Measurement Interval

Measurement Interval in Throughput Test

1,299.28 seconds

Duration of Stream Execution

Power Run	Seed	Query Start Time	Total Time	RF1 Start Time	RF2 Start Time		
	seeu	Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time		
	1103100745	2025-11-03 10:10:38	00:02:50	2025-11-03 10:09:56	2025-11-03 10:13:30		
		2025-11-03 10:13:28	00.02.30	2025-11-03 10:10:35	2025-11-03 10:14:08		
Throughput	Throughput Seed Qu		Total Time	RF1 Start Time	RF2 Start Time		
Stream	seeu	Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time		
1	1103100746	2025-11-03 10:14:07	00:21:21	2025-11-03 10:14:07	2025-11-03 10:15:15		
1		2025-11-03 10:35:28	00.21.21	2025-11-03 10:15:15	2025-11-03 10:16:31		
2	1103100747	2025-11-03 10:14:07	00:20:59	2025-11-03 10:16:32	2025-11-03 10:17:38		
2		2025-11-03 10:35:06	00.20.33	2025-11-03 10:17:38	2025-11-03 10:18:46		
3	1103100748	2025-11-03 10:14:07	00:21:41	2025-11-03 10:18:47	2025-11-03 10:19:54		
3		2025-11-03 10:35:48	00.21.41	2025-11-03 10:19:54	2025-11-03 10:21:07		
4	1103100749	2025-11-03 10:14:07	00:21:20	2025-11-03 10:21:07	2025-11-03 10:22:14		
4		2025-11-03 10:35:27	00.21.20	2025-11-03 10:22:14	2025-11-03 10:23:30		
5	1103100750	2025-11-03 10:14:07	00:20:56	2025-11-03 10:23:30	2025-11-03 10:24:35		
3		2025-11-03 10:35:03	00.20.30	2025-11-03 10:24:35	2025-11-03 10:25:51		
6	1103100751	2025-11-03 10:14:08	00:21:31	2025-11-03 10:25:51	2025-11-03 10:26:56		
		2025-11-03 10:35:39	00.21.51	2025-11-03 10:26:56	2025-11-03 10:28:09		
7	1103100752	2025-11-03 10:14:08	00:21:37	2025-11-03 10:28:10	2025-11-03 10:29:16		
		2025-11-03 10:35:45	00.21.57	2025-11-03 10:29:16	2025-11-03 10:30:36		
8	1103100753	2025-11-03 10:14:08	00:20:20	2025-11-03 10:30:37	2025-11-03 10:31:41		
		2025-11-03 10:34:28	00.20.20	2025-11-03 10:31:41	2025-11-03 10:32:57		



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TPC-H Timing Intervals (in seconds):

Stream ID	0	1	2	3	4	5	6	7	8	QI Min	QI Avg	QI Max
Q1	2.16	14.03	22.83	45.44	31.61	10.91	30.36	41.53	19.10	2.16	24.22	45.44
Q2	1.38	8.02	3.84	6.42	9.78	9.25	15.13	4.61	16.60	1.38	8.34	16.60
Q3	5.97	55.69	58.58	7.99	35.41	88.94	37.88	63.32	97.52	5.97	50.14	97.52
Q4	5.95	24.38	40.52	50.60	49.57	37.33	82.73	50.61	40.14	5.95	42.43	82.73
Q5	6.98	41.08	74.74	61.22	46.68	30.80	44.46	47.69	50.78	6.98	44.94	74.74
Q6	0.25	7.08	0.80	8.41	5.99	5.99	1.00	0.91	0.91	0.25	3.48	8.41
Q7	4.88	36.89	24.28	40.63	37.89	50.74	44.89	37.58	22.85	4.88	33.40	50.74
Q8	5.08	51.03	50.71	52.75	71.82	48.44	76.71	74.52	59.94	5.08	54.56	76.71
Q9	25.00	195.04	125.98	124.62	85.94	127.57	148.70	145.56	96.49	25.00	119.43	195.04
Q10	3.77	57.05	53.16	49.83	58.82	57.68	52.50	42.74	32.16	3.77	45.30	58.82
Q11	11.99	67.26	19.27	84.27	22.39	24.31	21.42	25.36	20.08	11.99	32.93	84.27
Q12	2.06	41.85	81.76	26.06	73.43	67.30	85.24	13.85	48.93	2.06	48.94	85.24
Q13	25.03	106.23	137.13	160.28	133.34	124.70	126.71	132.59	118.63	25.03	118.29	160.28
Q14	1.55	8.83	10.08	10.89	10.31	9.45	10.00	5.30	1.61	1.55	7.56	10.89
Q15	2.17	13.45	4.47	18.10	16.16	16.67	5.45	5.47	15.34	2.17	10.81	18.10
Q16	6.06	31.00	31.63	29.38	44.58	73.38	48.07	29.35	47.91	6.06	37.93	73.38
Q17	2.44	16.47	22.11	30.02	33.99	23.97	20.97	23.25	49.00	2.44	24.69	49.00
Q18	24.88	199.11	245.97	236.25	245.89	169.18	209.19	236.55	214.17	24.88	197.91	245.97
Q19	1.94	44.30	25.03	53.25	47.80	31.35	53.04	61.33	47.07	1.94	40.57	61.33
Q20	5.94	50.85	40.57	28.86	32.42	28.28	46.10	56.85	37.97	5.94	36.43	56.85
Q21	19.14	166.81	155.68	136.38	138.07	183.86	93.94	151.59	145.12	19.14	132.29	183.86
Q22	4.53	43.21	28.78	37.57	47.13	34.38	36.28	45.71	36.75	4.53	34.93	47.13
RF1	39.18	66.55	66.24	66.88	67.49	64.71	64.85	65.90	64.66	39.18	62.94	67.49
RF2	38.38	76.51	68.38	72.85	75.74	75.69	73.18	80.66	75.69	38.38	70.79	80.66