

 Hewlett Packard Enterprise		HPE ProLiant Compute DL580 Gen12		TPC-H Rev. 3.0.1 TPC Pricing Rev. 2.9.0	
Total System Cost		Composite Query per Hour Rating		Report Date: June 11, 2026	
\$4,416,801 USD		2,946,259.7 QphH @ 30,000GB		\$1,499.13 USD \$ / kQphH @ 30,000GB	
Database Size	Database Manager	Operating System	Other Software	Availability Date	
30,000GB	Microsoft® SQL Server 2025 Enterprise Edition	Microsoft Windows Server 2025	None	June 25, 2026	



Database Load Time = 02d 16h 47m 58s	Storage Redundancy Level	
Load included backup: Y	Base Tables and Auxiliary Data Structures	No RAID
Total Data Storage / Database Size = 2.10	DBMS Temporary Space	No RAID
Memory/Database Size = 27.3%	OS, DBMS Software, Transaction Logs and Backup	RAID 1

System Components	System Total
Nodes:	1
INTEL® Xeon 6748P @ 2.50 GHz:	4
Cores/Threads:	192/384
Memory:	8,192 GiB
3.2TB E3S Drives	12
6.4TB NVMe Drives	2
3.84TB NVMe Drives	4
RAID1 Boot Controller with 480GB M.2 NVMe	2
Total Storage:	62,882.90 GiB

Description	Price Key	Part Number	Unit Price	Qty	Extended Price	3 Yr Maint Price
Server Hardware						
HPE DL580 Gen12 SFF CTO Svr	1	P75399-B21	\$11,890	1	\$11,890	
Intel Xeon 6748P 2.5GHz 48-core 300W Processor for HPE	1	P74579-B21	\$37,060	4	\$148,240	
HPE DL580 Gen12 4P Mezz Enable Kit	1	P80445-B21	\$5,962	1	\$5,962	
HPE ProLiant Compute DL580 Gen12 2U High Perf Heat Sink Kit	1	P80382-B21	\$431	4	\$1,724	
HPE 256GB 4Rx4 PC5-6400B-R 3DS Smart Kit	1	P73447-B21	\$197,312	32	\$6,313,984	
HPE 1500W M-CRPS Titanium Hot Plug Power Supply Ki	1	P67244-B21	\$1,485	4	\$5,940	
MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	1	P42044-B21	\$1,500	1	\$1,500	
HPE 42U 800x1075 Ent G2 Shock Rack	1	P9K42A	\$6,000	1	\$6,000	
HPE 3Y TC Ess DL580 GEN12 HWSVC	1	H50XLE	\$15,564	1		\$15,564
		Subtotal			\$6,495,240	\$15,564
Storage						
HPE 3.2TB NVMe MU E3S EC1 CM7 SSD	1	P61191-B21	\$44,230	12	\$530,760	
HPE 6.4TB NVMe MU SFF BC U.3 PM1735a SSD	1	P50233-B21	\$76,904	2	\$153,808	
HPE 3.84TB NVMe RI SFF BC U.3 PM1733a SSD	1	P50219-B21	\$44,147	4	\$176,588	
HPE NS204i-u V2 Ht Plg Boot Opt Dev	1	P78279-B21	\$6,549	1	\$6,549	
HPE DL580 Gen12 Rear NS204i-u Enable Kit	1	P80440-B21	\$141	1	\$141	
HPE DL580 Gen12 8EDSFF Kit	1	P80431-B21	\$531	2	\$1,062	
HPE DL580 G12 4P 16EDSFF/16SFF DA Cb Kit	1	P80415-B21	\$1,774	1	\$1,774	
HPE DL580 Gen12 8SFF x4 U.3 TM Kit	1	P80430-B21	\$513	2	\$1,026	
HPE MR416i-o Gen11 x16 Lanes Plug-in Storage Controller	1	P47781-B21	\$5,399	1	\$5,399	
HPE Ball Bearing Rail 13 Kit	1	P69770-B21	\$950	1	\$950	
HPE DL580G12 Standard Riser	1	Standard DL580G12Riser		2		
		Subtotal			\$878,057	\$0
Other						
HP Series 5 FHD Monitor + Wireless Mouse and Keyboard Bundle	3	94C21AA 2V9E6AA	\$143	3	\$429	
		Subtotal			\$429	\$0
Software Components						
SQL Server 2025 Enterprise Edition (2 core license, 64 cores)	2	N/A	\$15,123	96	\$1,451,808	
Microsoft Problem Resolution Services	2	N/A	\$259	1		\$259
Windows Server 2025 Standard Edition (16 Core license)	2	N/A	\$730.00	12	\$8,760	
		Subtotal			\$1,460,568	\$259
Total Extended Price					\$8,834,294	\$15,823
Total Discounts					\$4,423,978.0	\$9,338.00
Price Key: 1 - HPE , 2 – Microsoft, 3 – Hewlett Packard Inc. Audited by Doug Johnson of InfoSizing (www.sizing.com)		Grand Total			\$4,410,315.55	\$6,485.00
All discounts are based on US list prices and for similar quantities and configurations. A 60% discount was based on the overall specific components pricing from vendor 1. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.		3 year cost of ownership USD:			\$4,416,801.00	
		QpH @ 30,000GB :			2,946,259.7	
		\$ USD/QpH @ 30,000GB			\$1,499.13	
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.						

Numerical Quantities

Measurement Results

Database Scale Factor	30,000
Total Data Storage / Database Size	2.10
Percentage Memory / Database Size	27.3%
Start of Database Load	2026-05-21 10:05:40
End of Database Load	2026-05-25 00:24:52
Database Load Time	02d 16h 47m 58s
Query Streams for Throughput Test	10
TPC-H Power	3,153,880.9
TPC-H Throughput	2,752,306.3
TPC-H Composite Query-per-Hour (QphH@30,000GB)	2,946,259.7
Total System Price over 3 Years (\$ USD)	\$4,416,801
TPC-H Price/Performance Metric (\$ USD / kQphH@30,000GB)	\$1,499.13

Measurement Interval

Measurement Interval in Throughput Test **8,632.76 seconds**

Duration of Stream Execution

Power Run	Seed	Query Start Time	Total Time	RF1 Start Time	RF2 Start Time
		Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time
	525002452	2026-05-25 00:30:58	00:18:43	2026-05-25 00:29:27	2026-05-25 00:49:41
		2026-05-25 00:49:41		2026-05-25 00:30:58	2026-05-25 00:55:11
Throughput Stream	Seed	Query Start Time	Total Time	RF1 Start Time	RF2 Start Time
		Query End Time	(hh:mm:ss)	RF1 End Time	RF2 End Time
1	525002453	2026-05-25 00:55:10	01:59:57	2026-05-25 00:55:10	2026-05-25 00:58:55
		2026-05-25 02:55:07		2026-05-25 00:58:55	2026-05-25 01:11:06
2	525002454	2026-05-25 00:55:10	02:08:05	2026-05-25 01:11:07	2026-05-25 01:13:32
		2026-05-25 03:03:15		2026-05-25 01:13:32	2026-05-25 01:22:26
3	525002455	2026-05-25 00:55:10	02:13:59	2026-05-25 01:22:26	2026-05-25 01:24:59
		2026-05-25 03:09:09		2026-05-25 01:24:59	2026-05-25 01:34:31
4	525002456	2026-05-25 00:55:11	02:20:34	2026-05-25 01:34:31	2026-05-25 01:36:59
		2026-05-25 03:15:45		2026-05-25 01:36:59	2026-05-25 01:45:07
5	525002457	2026-05-25 00:55:11	02:21:35	2026-05-25 01:45:07	2026-05-25 01:47:27
		2026-05-25 03:16:46		2026-05-25 01:47:27	2026-05-25 01:55:36
6	525002458	2026-05-25 00:55:11	02:20:56	2026-05-25 01:55:36	2026-05-25 01:57:51
		2026-05-25 03:16:07		2026-05-25 01:57:51	2026-05-25 02:05:51
7	525002459	2026-05-25 00:55:11	02:09:32	2026-05-25 02:05:51	2026-05-25 02:08:11
		2026-05-25 03:04:43		2026-05-25 02:08:11	2026-05-25 02:17:04
8	525002460	2026-05-25 00:55:11	02:23:53	2026-05-25 02:17:04	2026-05-25 02:20:00
		2026-05-25 03:19:04		2026-05-25 02:20:00	2026-05-25 02:28:35
9	525002461	2026-05-25 00:55:11	02:21:52	2026-05-25 02:28:35	2026-05-25 02:31:34
		2026-05-25 03:17:03		2026-05-25 02:31:34	2026-05-25 02:39:47
10	525002462	2026-05-25 00:55:11	02:06:51	2026-05-25 02:39:47	2026-05-25 02:42:14
		2026-05-25 03:02:02		2026-05-25 02:42:14	2026-05-25 02:50:21

TPC-H Timing Intervals (in seconds):

Stream ID	0	1	2	3	4	5	6	7	8	9	10	Min Qi	Avg. Qi	Max. Qi
Q1	10.96	263.70	329.24	526.53	295.00	441.91	285.48	304.81	435.17	252.32	531.44	10.96	334.23	531.44
Q2	9.77	75.66	82.87	60.93	72.24	104.28	32.51	32.41	68.84	65.05	40.66	9.77	58.66	104.28
Q3	107.93	646.27	428.58	187.86	150.14	327.20	692.36	288.73	430.09	328.06	335.83	107.93	356.64	692.36
Q4	39.31	298.75	275.84	323.36	412.39	521.76	490.17	139.06	274.10	418.39	80.33	39.31	297.59	521.76
Q5	44.74	232.67	280.95	617.13	689.14	266.63	205.96	461.65	517.55	266.17	213.38	44.74	345.09	689.14
Q6	1.62	58.45	73.68	45.55	38.17	63.85	71.66	17.47	61.83	28.84	103.17	1.62	51.30	103.17
Q7	31.56	209.68	407.59	304.93	107.53	577.16	220.65	139.25	465.95	311.15	207.02	31.56	271.13	577.16
Q8	38.10	299.42	142.50	710.35	191.33	294.87	357.38	279.53	394.67	711.41	196.01	38.10	328.69	711.41
Q9	150.10	533.68	476.73	457.89	607.41	251.85	666.31	339.36	552.98	210.90	769.50	150.10	456.06	769.50
Q10	45.22	320.19	619.93	349.02	504.74	334.90	762.76	654.79	502.85	497.14	265.75	45.22	441.57	762.76
Q11	123.66	244.18	225.28	633.18	1,242.69	1,016.19	1,298.34	1,157.12	139.66	1,171.77	255.11	123.66	682.47	1,298.34
Q12	16.04	540.24	327.67	431.56	638.82	465.74	673.03	295.14	655.34	429.28	184.93	16.04	423.44	673.03
Q13	110.04	101.99	165.42	238.45	194.89	545.21	304.48	293.92	543.35	637.54	419.85	101.99	323.19	637.54
Q14	6.09	46.44	265.28	66.33	34.85	44.76	26.42	26.08	259.01	34.08	37.62	6.09	77.00	265.28
Q15	6.81	19.65	106.92	29.21	60.86	98.79	55.48	25.77	122.41	49.75	125.12	6.81	63.71	125.12
Q16	17.22	54.89	315.30	51.94	95.72	155.78	33.92	68.99	201.36	33.06	124.30	17.22	104.77	315.30
Q17	30.39	319.59	406.15	424.65	229.11	224.93	241.83	320.98	459.83	271.32	270.53	30.39	290.85	459.83
Q18	149.83	1,185.96	1,294.76	1,061.04	1,296.29	948.99	1,252.17	1,455.13	1,107.55	1,071.80	1,618.62	149.83	1,131.10	1,618.62
Q19	16.25	244.89	547.35	216.39	277.50	443.79	227.26	188.16	187.69	209.28	209.87	16.25	251.68	547.35
Q20	35.67	295.11	415.09	231.47	115.63	137.27	69.44	290.15	356.69	208.77	378.15	35.67	230.31	415.09
Q21	112.15	1,007.76	370.50	937.16	1,127.10	1,061.39	418.11	809.73	765.83	1,071.69	1,126.61	112.15	800.73	1,127.10
Q22	18.12	196.20	126.34	133.00	51.72	166.79	69.30	182.70	129.43	232.67	115.86	18.12	129.28	232.67
RF1	91.07	223.66	145.60	152.58	147.60	139.37	134.57	139.78	176.06	178.16	146.93	91.07	152.31	223.66
RF2	330.33	731.40	533.23	572.38	487.81	489.31	479.75	533.19	514.51	493.45	486.60	330.33	513.81	731.40