



# Dell PowerEdge R7715 using Exasol 2025.2.1

TPC-H Rev. 3.0.1  
TPC-Pricing Rev. 2.9.0

Report Date  
July 1, 2026

Total System Cost  
**\$ 331,519.00  
USD**

Composite Query per Hour Metric  
**5,484,276.5  
QphH@3000GB**

Price / Performance  
**\$ 60.45 USD \$ /  
kQphH@3000GB**

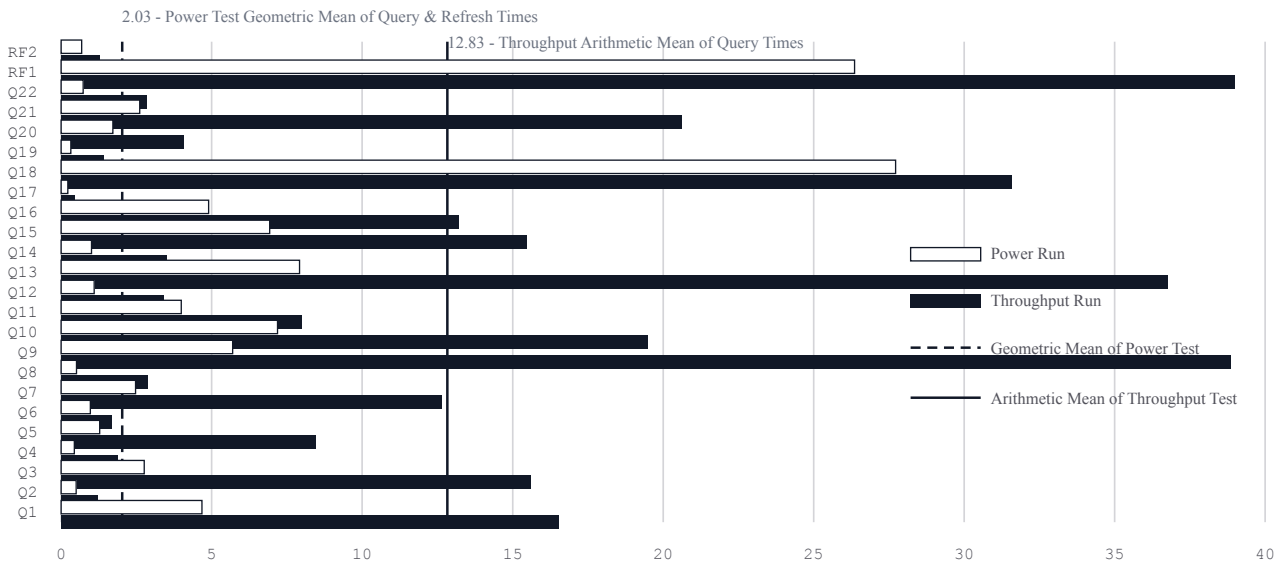
Database Size  
**3,000 GB**

Database Manager  
**Exasol 2025.2.1**

Operating System  
**Ubuntu 24.04.4  
LTS**

Other Software  
**None**

Availability Date  
**Now**



Database Load Time = 00d 01h 26m 05s  
Data Storage Ratio = 2.98  
Memory / DB Size = 51.2%

### Storage Redundancy Levels:

Base Tables	Level One
Auxiliary Data Structures	Level One
DBMS Temporary Space	Level One
OS and DBMS Software	Level One

### System Configuration:

- 1 x Dell PowerEdge R7715 Server, with:
- 1,536 GB RAM
- 1 x AMD EPYC 9845 160-Core Processor (320 threads)
- 1 x Dell BOSS-N1 960 GB OS device, configured as hardware RAID1 mirror with 2 x 960 GB M.2 media
- 2 x 3840 GB (3.84TB) NVMe drives in software RAID1 (md0)
- Total Storage: 8,941 GiB



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Description	Part	Key	Unit Price	Qty	Ext. Price \$	3 Yr. Maint. Price \$
<b>HARDWARE COMPONENTS</b>						
PowerEdge R7715 Server	210-BNRJ	1	413,969.67	1	413,969.67	0.00
Chassis with up to 8 E3.S NVMe Direct Drives	321-BLML	1	0.00	1	0.00	0.00
AMD EPYC 9845 2.10GHz, 160C/320T, 320 Cache (390W) DDR5-6400	338-CRRW	1	0.00	1	0.00	0.00
Heatsink for GPU Configuration (CPU greater than 240W)	412-BCBC	1	0.00	1	0.00	0.00
Performance Optimized	370-AHLL	1	0.00	1	0.00	0.00
6400MT/s RDIMMs	370-BCCX	1	0.00	1	0.00	0.00
128GB RDIMM, 6400MT/s, Dual Rank	370-BCGJ	1	0.00	12	0.00	0.00
C30, No RAID for NVME chassis	780-BCDO	1	0.00	2	0.00	0.00
No Controller	405-AACD	1	0.00	1	0.00	0.00
No Hard Drive	400-ABHL	1	0.00	1	0.00	0.00
3.84TB NVMe Read Intensive AG Drive E3s Gen5 with carrier	400-BOMP	1	0.00	2	0.00	0.00
Performance BIOS Settings	384-BBBL	1	0.00	1	0.00	0.00
UEFI BIOS Boot Mode with GPT Partition	800-BBDM	1	0.00	1	0.00	0.00
No Energy Star	387-BBEY	1	0.00	1	0.00	0.00
PowerEdge 2U High Performance Platinum Fan	384-BDTQ	1	0.00	1	0.00	0.00
Dual,Redundant(1+1),Hot-Plug MHS PSU,3200W MM HLAC(Only for 200-240Vac)Titanium	450-BDTD	1	0.00	1	0.00	0.00
No Power Cord	450-AAGG	1	0.00	1	0.00	0.00
Riser Config 8, 2 x16 LP Slots (Gen5), 3 x16 DW FH Slots (Gen5)	330-BCZT	1	0.00	1	0.00	0.00
PowerEdge R7715 Motherboard V2	329-BLHZ	1	0.00	1	0.00	0.00
Broadcom 57412 Quad Port 10GbE Base-T adapter, OCP 3.0 NIC +Sec	540-BFPS	1	0.00	1	0.00	0.00
No OCP Blanks or Cables Required	780-BCZQ	1	0.00	1	0.00	0.00
No Cables Required	470-AEYU	1	0.00	1	0.00	0.00
No Cables Required	470-AEYU	1	0.00	1	0.00	0.00
Dell Luggage Tag, PowerEdge R7715	321-BLFN	1	0.00	1	0.00	0.00
PowerEdge 2U Standard Bezel	325-BFWZ	1	0.00	1	0.00	0.00
BOSS-N1 controller card + with 2 M.2 960GB (RAID 1) (22x80)	403-BDMC	1	0.00	1	0.00	0.00
No Operating System, No Utility Partition, BOSS	611-BBBX	1	0.00	1	0.00	0.00
No Media Required	605-BBFN	1	0.00	1	0.00	0.00
Secure Enterprise Key Manager License 3.0	634-CSHS	1	0.00	1	0.00	0.00
Secured Component Verification	634-CSHT	1	0.00	1	0.00	0.00
iDRAC10, Enterprise 17G	634-CSHY	1	0.00	1	0.00	0.00
Dell Connectivity Client - Enabled	379-BFXS	1	0.00	1	0.00	0.00
Dell Connectivity Module 17G	634-CZRP	1	0.00	1	0.00	0.00
Dell Secure Onboarding Client 17G - Disabled	634-CZWJ	1	0.00	1	0.00	0.00
Blank Left Ear Module	350-BCYL	1	0.00	1	0.00	0.00
iDRAC Legacy Password for OCP cards	379-BETF	1	0.00	1	0.00	0.00
No Rack Rails	770-BBBS	1	0.00	1	0.00	0.00
PowerEdge Shipping	340-DNSW	1	0.00	1	0.00	0.00
PowerEdge R7715 Shipping	340-DRYL	1	0.00	1	0.00	0.00
PowerEdge 2U Shipping Material	340-DPDX	1	0.00	1	0.00	0.00
PowerEdge No CCC, No CE Label Marking	389-FHHY	1	0.00	1	0.00	0.00
3Yr ProSupport and 4hr Onsite Service - 3 Years	199-BONO	1	42,796.76	1	0.00	42,796.76
Basic Next Business Day 36 Months	709-BBFM	1	0.01	1	0.00	0.01
Secure Enterprise Key Manager License 3.0	817-BBBP	1	249.00	1	249.00	0.00
Dell 24 Monitor S2425H includes spares	210-BMGX	1	99.99	3	299.97	0.00
Keyboard/Mouse includes spares	570-AAKV,580-ADJC	1	20.38	3	61.14	0.00
<b>HARDWARE COMPONENTS Subtotal</b>					<b>414,579.78</b>	<b>42,796.77</b>



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<b>SOFTWARE COMPONENTS</b>						
Exasol 3TB License (monthly subscription)	N/A	2	6,000.00	36	216,000.00	0.00
Ubuntu Support by Dell, 3yr Premium Sub, 1 Physical with Unlimited VMs	528-BBUZ	1	4,699.00	1	4,699.00	0.00
<b>SOFTWARE COMPONENTS Subtotal</b>					<b>220,699.00</b>	<b>0.00</b>
<b>Total</b>					<b>635,278.78</b>	<b>42,796.77</b>
<b>Dell Large Purchase Discount (75%)*</b>					<b>-314,459.09</b>	<b>-32,097.58</b>

**Three-Year Cost of Ownership: \$ 331,519.00**  
**QphH@3000GB: 5,484,276.5**  
**\$/kQphH@3000GB: \$ 60.45**

Price Key: 1 DELL  
2 Exasol

\* Dell Discount based upon total system cost as purchased by a regular customer.

Audited by Doug Johnson, InfoSizing Inc. (www.sizing.com)

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 the TPC at [pricing@tpc.org](mailto:pricing@tpc.org).



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## Numerical Quantities

### Measurement Results

Database Scale Factor	3,000 GB
Total Data Storage / Database Size	2.98
Percentage Memory / Database Size	51.2%
Start of Database Load	2026-04-14 15:30:03
End of Database Load	2026-04-14 16:56:08
Database Load Time	00d 01h 26m 05s
Query Streams for Throughput Test	8
TPC-H Power	5,311,945.4
TPC-H Throughput	5,662,198.4
TPC-H Composite Query-per-Hour Metric (QphH@3000GB)	5,484,276.5
Total System Price Over 3 Years	\$331,519.00
TPC-H Price/ Performance Metric (\$/kQphH@3000GB)	\$60.45

### Measurement Interval

Measurement Interval in Throughput Test (Ts)	335.70 seconds
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### Duration of Stream Execution

Run	Stream	Seed	Query	Total Time	RF1	RF2
Power Run	Power	414165608	2026-04-14 17:03:28.345 2026-04-14 17:04:54.069	00:01:25.724	2026-04-14 17:03:01.977 2026-04-14 17:03:28.332	2026-04-14 17:04:54.083 2026-04-14 17:04:54.766
Throughput	1	414165609	2026-04-14 17:04:54.793 2026-04-14 17:09:34.623	00:04:39.830	2026-04-14 17:04:54.786 2026-04-14 17:05:35.386	2026-04-14 17:05:35.393 2026-04-14 17:05:36.579
Throughput	2	414165610	2026-04-14 17:04:54.793 2026-04-14 17:09:38.263	00:04:43.471	2026-04-14 17:05:36.586 2026-04-14 17:06:20.219	2026-04-14 17:06:20.237 2026-04-14 17:06:21.779
Throughput	3	414165611	2026-04-14 17:04:54.793 2026-04-14 17:09:39.010	00:04:44.218	2026-04-14 17:06:21.789 2026-04-14 17:07:07.849	2026-04-14 17:07:07.859 2026-04-14 17:07:09.497
Throughput	4	414165612	2026-04-14 17:04:54.793 2026-04-14 17:09:37.677	00:04:42.884	2026-04-14 17:07:09.506 2026-04-14 17:07:50.255	2026-04-14 17:07:50.264 2026-04-14 17:07:51.590
Throughput	5	414165613	2026-04-14 17:04:54.793 2026-04-14 17:09:37.534	00:04:42.741	2026-04-14 17:07:51.595 2026-04-14 17:08:38.091	2026-04-14 17:08:38.102 2026-04-14 17:08:39.716
Throughput	6	414165614	2026-04-14 17:04:54.793 2026-04-14 17:09:38.779	00:04:43.986	2026-04-14 17:08:39.726 2026-04-14 17:09:24.931	2026-04-14 17:09:24.946 2026-04-14 17:09:26.760
Throughput	7	414165615	2026-04-14 17:04:54.793 2026-04-14 17:09:32.641	00:04:37.848	2026-04-14 17:09:26.777 2026-04-14 17:09:59.512	2026-04-14 17:09:59.520 2026-04-14 17:10:00.423
Throughput	8	414165616	2026-04-14 17:04:54.793 2026-04-14 17:09:39.150	00:04:44.357	2026-04-14 17:10:00.430 2026-04-14 17:10:29.577	2026-04-14 17:10:29.585 2026-04-14 17:10:30.484



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## TPC-H Timing Intervals (in seconds)

Stream ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
0	4.68	0.50	2.76	0.44	1.28	0.97	2.47	0.51	5.70	7.19	3.99	1.10
1	17.41	1.32	16.31	2.00	10.26	1.79	16.67	3.19	40.74	17.26	9.22	5.18
2	18.76	1.13	18.88	2.14	10.46	1.63	13.39	3.92	44.12	25.38	9.88	3.24
3	16.28	1.19	16.12	2.05	9.25	1.47	13.54	2.90	44.73	22.82	6.11	3.24
4	18.80	1.38	18.00	2.09	9.41	1.72	12.45	3.54	44.30	22.15	8.09	3.22
5	18.51	1.09	15.11	1.99	10.19	1.88	14.06	3.02	38.41	18.93	10.26	3.43
6	18.57	1.46	18.00	1.84	9.56	2.03	11.44	3.77	42.19	18.78	8.98	4.72
7	18.28	1.75	16.02	2.19	9.07	1.71	12.84	2.62	45.50	22.75	8.72	3.35
8	17.39	1.09	19.20	2.17	6.71	1.72	16.85	2.45	44.00	19.97	6.61	3.15
Qi Min	4.68	0.50	2.76	0.44	1.28	0.97	2.47	0.51	5.70	7.19	3.99	1.10
Qi Avg	16.52	1.21	15.60	1.88	8.47	1.66	12.63	2.88	38.85	19.48	8.98	3.40
Qi Max	18.80	1.75	19.20	2.19	10.46	2.03	16.85	3.92	45.50	25.38	10.26	5.18
Stream ID	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
0	7.92	1.01	6.93	4.90	0.22	27.72	0.32	1.72	2.61	0.73	26.36	0.68
1	37.50	3.89	15.77	15.34	0.52	31.60	1.49	4.96	24.00	3.35	40.60	1.19
2	36.51	3.29	16.21	12.69	0.44	31.23	1.48	4.24	21.07	3.29	43.63	1.54
3	42.21	3.85	15.40	15.18	0.40	34.48	1.90	4.39	23.60	2.99	46.06	1.64
4	42.83	2.81	15.81	16.31	0.52	28.35	0.87	3.74	23.43	3.00	40.75	1.33
5	39.30	3.50	18.15	14.78	0.70	35.62	2.05	4.45	23.91	3.31	46.50	1.61
6	45.99	4.60	16.06	12.91	0.46	33.16	1.76	4.07	20.58	2.97	45.21	1.81
7	36.82	4.48	17.37	12.51	0.48	30.31	1.36	4.22	22.22	3.20	32.74	0.90
8	41.83	3.99	17.59	14.28	0.36	31.66	1.55	4.92	24.05	2.73	29.15	0.90
Qi Min	7.92	1.01	6.93	4.90	0.22	27.72	0.32	1.72	2.61	0.73	26.36	0.68
Qi Avg	36.77	3.49	15.48	13.21	0.46	31.57	1.42	4.08	20.61	2.84	39.00	1.29
Qi Max	45.99	4.60	18.15	16.31	0.70	35.62	2.05	4.96	24.05	3.35	46.50	1.81