

(hī)	HP ProLiar	nt DL58	5 G1 2	2.6GHz 4P	TF	C-H Rev. 2.1.0	
invent					Re	Report Date:	
Description	Part Number	Third F	Party	Unit Price	Qty	Extended Price	3 yr. Maint Price
Server Hardware		Brand	Pricin	g			
roLiant DL585 852 2.6GHz (1 MB) x 2 - 2 GB PC2100 DDR, Integrated Smart Array Controller 5i, - Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit NIC	380124-001		1	12,699	1	12,699	
)L585 852 2.6GHz/PC2700 8 socket processor option kit	381476-B21		1	4,049	2	8,098	
	371049-B21		1	2,499	16	39,984	
IP s7540 17in CRT Monitor	PF997AA#ABA		1	149	1	149	
IP PS/2 Scroll Mouse Carbonite	DG169AV		1	5	1	5	
S/2 Standard Keyboard	DG170AV#ABA		1	10	1	10	
IP 5642 Unassembled Rack	358254-B21		1	689	1	689	
YR 24X7 4HR 500 SERIES SVR	U4608E		1	1,575	1		1,5
	0.0002			1,010	Subtotal	61,634	1,5
Storago							
Storage IP Smart Array 6404/256MB Controller	273914-B21		1	1,899	8	15,192	
IP Storageworks MSA 30 DB Storage	302970-B21		1	3,209	8	25,672	
-	286776-B21		1	299	2	598	
IP 36GB 15K U320 Pluggable Hard Drive (internal)			1				
IP 36GB 15K U320 Pluggable Hard Drive	286776-B22		1	299	112	33,488	
IP 36GB 15K U320 Pluggable Hard Drive (10% spares)	286776-B22		1	299	12	3,588	
M-4E724-36 3YR 24X7/4HR EMPTY DISK ENCL	171242-002		1	157	8 Subtotal	78,538	<u> </u>
						10,000	
Hardware and Maintence Discount						(****	
arge Purchase and Net 30 discount	16.0%		I		—	(\$22,428)	(\$4
				Hardware	Subtotal	117,744	2,3
Software							
) B2 UDB Enterprise Server Edition (ESE) License incl 1-yr Maint		IBM	2	22,608	4	90,432	
DB2 UDB Enterprise Server Edition (ESE) Support - 1-yr/proc		IBM	2	1,077	8		8,6
0B2 UDB Data Partitioning Feature (DPF) License incl 1-yr Maint		IBM	2	6,791	4	27,164	
DB2 UDB Data Partitioning Feature (DPF) Support - 1-yr/proc		IBM	2	323	8		2,5
IP Red Hat Ent Linux AS 4 w/PRM 24x7 3yr sw tech sprt umlim.	392381-B26		1	6,747	1	6,747	inclu
				-,	Subtotal	124,343	11,2
JD Software and Maintanae Discount							
HP Software and Maintence Discount arge Purchase and Net 30 discount	16.0%		1			(\$1,080)	
				Software	Subtotal	123,263	11,2
					Total	\$241,008	\$13,5
			Г		[hree-Year (Cost of Ownership	\$254,586
					G	AphH @ 300GB:	8435.2
					\$/@	phH @ 300GB:	\$31 US
'mizing: 1=HP;2=IBM Note:The benchmark results and test methodology were au	dited by Lorna Li	vingtree of	f Perform	ance Metrics. In	c. (www.perfmetri	ics.com); Rev.1.02 submis	sion on 5/16/20
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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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= 23064 seconds

Numerical Quantities

Measurement Results:

Database Scale Factor	= 300
Total Data Storage / Database Size	= 13.8
Start of Database Load	= 5/6/2005 12:16:50
End of Database Load	= 5/6/2005 16:18:00
Database Load Time	= 4:01:10
Query Streams for Throughput Test	= 6
TPC-H Power	= 11511.2
TPC-H Throughput	= 6181.1
TPC-H Composite Query-per-Hour Metric (QphH@300GB)	= 8435.2
Total System Price Over 5 Years	= \$254586 USD
TPC-H Price/ Performance Metric (\$/QphH@300GB)	= \$31 USD

Measurement Intervals:

Measurement Interval in Throughput Test (Ts)

Duration of Stream Execution:

	Seed	Query Star	t Date/Time	RF1 Start	Date/Time	RF2 Start	Date/Time	Duration
	Seed	Query End Date/Time		RF1 End Date/Time		RF2 End Date/Time		Duration
Stream 00	506161800	05/07/05	12:07:34	05/07/05	12:06:55	05/07/05	13:13:37	1:06:03
Stream 00	500101800	05/07/05	13:13:37	05/07/05	12:07:34	05/07/05	13:14:12	1.00.05
Store 01	506161801	05/07/05	13:14:15	05/07/05	19:32:14	05/07/05	19:32:54	5:46:29
Stream 01	500101801	05/07/05	19:00:44	05/07/05	19:32:54	05/07/05	19:33:30	
Stream 02	506161000	05/07/05	13:14:15	05/07/05	19:33:30	05/07/05	19:34:04	6:01:32
Stream 02 50010180	506161802	05/07/05	19:15:47	05/07/05	19:34:04	05/07/05	19:34:35	0.01.52
Stream 03	506161803	05/07/05	13:14:15	05/07/05	19:34:35	05/07/05	19:35:09	6:18:00
Stream 05	am 03 300101803	05/07/05	19:32:14	05/07/05	19:35:09	05/07/05	19:35:40	0.18.00
Stream 04	4 506161804	05/07/05	13:14:15	05/07/05	19:35:40	05/07/05	19:36:14	6:16:28
Stream 04 506161804	05/07/05	19:30:43	05/07/05	19:36:14	05/07/05	19:36:44	0.10.28	
Stream 05	eam 05 506161805	05/07/05	13:14:15	05/07/05	19:36:44	05/07/05	19:37:17	6:14:10
Stream 05	500101805	05/07/05	19:28:25	05/07/05	19:37:17	05/07/05	19:37:47	0.14.10
Stream 06	506161806	05/07/05	13:14:15	05/07/05	19:37:47	05/07/05	19:38:21	5:58:02
Stream 06	500101800	05/07/05	19:12:17	05/07/05	19:38:21	05/07/05	19:38:51	5:58:02



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TPC-H Timing Intervals (in seconds)

Query	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q 8
Stream 00	295.4	26.2	29.3	28.0	161.7	21.0	120.3	105.5
Stream 01	1,148.0	112.7	199.0	116.1	2,176.5	84.3	781.9	855.1
Stream 02	1,521.4	170.9	252.7	152.5	1,806.2	110.4	497.2	635.2
Stream 03	1,073.7	182.0	30.3	121.0	2,165.6	78.4	907.6	851.0
Stream 04	1,413.5	59.4	31.7	48.9	2,431.6	67.8	668.4	672.2
Stream 05	882.1	180.8	236.7	131.2	1,035.0	98.8	1,236.7	444.8
Stream 06	787.9	125.2	281.7	110.4	2,487.4	143.9	440.8	1,075.5
minimum	787.9	59.4	30.3	48.9	1,035.0	67.8	440.8	444.8
average	1,137.8	138.5	172.0	113.4	2,017.1	97.3	755.4	755.6
maximum	1,521.4	182.0	281.7	152.5	2,487.4	143.9	1,236.7	1,075.5
Query	Q9	Q10	Q11	Q12	Q13	Q14	Q15a	Q16
Stream 00	467.3	103.1	31.4	51.1	324.5	24.7	65.1	99 .7
Stream 01	2,545.3	453.7	308.3	173.3	1,815.3	173.0	493.0	1,219.5
Stream 02	2,363.2	761.7	99.2	534.2	2,408.8	319.8	551.5	1,069.2
Stream 03	2,799.9	564.1	115.1	51.1	2,298.7	67.5	989.8	246.6
Stream 04	2,258.0	751.2	81.7	571.0	2,607.7	247.7	508.0	1,088.6
Stream 05	2,982.2	878.6	120.4	271.2	1,778.5	305.8	905.6	1,726.6
Stream 06	2,308.1	721.3	155.1	162.3	2,766.2	210.1	599.5	1,376.9
minimum	2,258.0	453.7	81.7	51.1	1,778.5	67.5	493.0	246.6
average	2,542.8	688.4	146.6	293.9	2,279.2	220.7	674.6	1,121.2
maximum	2,982.2	878.6	308.3	571.0	2,766.2	319.8	989.8	1,726.6
Query	Q17	Q18	Q19	Q20	Q21	Q22	RF1	RF2
Stream 00	189.7	654.3	192.0	57.1	779.3	136.2	38.9	35.0
Stream 01	710.9	3,264.9	480.0	284.7	2,484.7	909.2	39.8	35.5
Stream 02	735.1	2,858.8	679.5	348.4	2,408.0	1,408.4	34.6	30.6
Stream 03	716.0	4,669.8	880.2	212.6	2,977.3	681.5	34.0	31.2
Stream 04	650.4	4,387.4	743.3	57.2	2,717.7	525.0	34.0	29.6
Stream 05	1,146.6	3,719.9	672.7	337.5	2,507.5	850.5	33.7	29.7
Stream 06	1,083.3	2,010.6	900.2	365.5	2,514.2	856.0	33.9	30.1
minimum	650.4	2,010.6	480.0	57.2	2,408.0	525.0	33.7	29.6
average	840.4	3,485.2	726.0	267.7	2,601.6	871.8	35.0	31.1
maximum	1,146.6	4,669.8	900.2	365.5	2,977.3	1,408.4	39.8	35.5