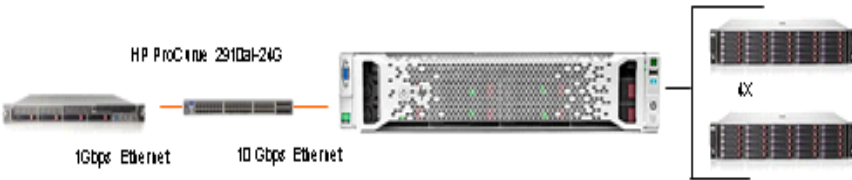
	HP ProLiant DL385p Gen8 AMD Opteron™ 6386SE Processor C/S with 1 ProLiant DL360 G7		TPC-E Rev 1.12.0
			TPC Pricing 1.7.0
			Report Date May 15, 2013
TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
1416.37 tpsE	\$183 USD/tpsE	May 15, 2013	\$258,734 USD
Database Server Configuration			
Operating System	Database Manager	Processor/Cores/Thread	Memory
Microsoft Windows Server 2012 Standard Edition	Microsoft SQL Server 2012 Enterprise Edition SP1	2/32/32 AMD Opteron™ 6386SE Processor 2.8GHz GHz 16 MB L3	256 Gbyte
<p>Tier B: Server HP ProLiant DL385p Gen8</p> <p>2 x AMD Opteron™ 6386SE (2.8GHz/16-core) Processor 256 GB Memory 2 x HP 146GB SAS 15K SFF DP ENT HDD 6 x HP 300GB SAS 15K SFF DP ENT HDD (Database Log)</p>  <p>Tier A: Client</p> <p>1 x ProLiant DL360 G7 2x Hex-Core Intel Xeon X5670 Processor 2.93Ghz 6 x 2GB PC3-10600 Memory 2 x 300GB 6G SAS 10K SFF DP 4 x Onboard 1 Gbps Ethernet 1 X HP NC360T PCI-E Dual Port Gigabit Server Adapter</p> <p>Storage</p> <p>4 x HP Smart Array P421/1GB 4 x HP StorageWorks D2700 Disk Enclosure 24 X HP 400GB 6G SAS MLC SFF (2.5-inch) SSD</p> <p>Priced Only 5 x 500GB 6G SAS 15K SFF DP ENT HDD (60 Day Space)</p>			
Initial Database Size	Redundancy Level: 1	Storage	
6141 GB	RAID10:Log/RAID5:Data	24x 400GB SSD (data), 6x300GB HDD (log), 5x500GB HDD(60Day)	



HP ProLiant DL385p Gen8

TPC-E	1.12.0
TPC-Pricing	1.7.0
Report date	15-May-13
Availability Date	15-May-13

Description	Part Number	Brand	Unit Price	Qty.	Extended Price	3 Yr Maint Price
Server Hardware (Tier B)						
HP ProLiant DL385p Gen8 8 SFF Configure-to-order Server	653203-B21	1	2,597	1	2,597	
Gen8 AMD Opteron™ 6386SE (2.8GHz/16-core/16MB/140W) Processor	703939-B21	1	1,799	2	3,598	
16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered Memory	672633-B21	1	329	16	5,264	
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise	652605-B21	1	359	2	718	
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise (Log)	652611-B21	1	619	6	3,714	
HP Ethernet 10Gb 2-port NC523SFP+ Adapter	593717-B21	1	629	1	629	
HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller	631674-B21	1	899	4	3,596	
HP 3 year 4 hour 24x7 ProLiant DL38x(p) Hardware Support	U4545E	1	1,216	1		\$1,216
			Subtotal		\$20,116	\$1,216
Server Software						
SQL Server 2012 Enterprise Edition SP1, 2 Core License	7JQ-00256	2	13,473	12	161,670	
Windows Server 2012 Standard Edition	P73-05761	2	735	1	735	
Microsoft Problem Resolution Services	N/A	2	259	1		259
			Subtotal		\$162,405	259
Storage						
HP D2700 Disk Enclosure	AJ941A	1	3,399	4	13,596	
HP 3 year 4 hour 24x7 D2000 Enclosure Hardware Support	UQ540E	1	1,980	4		7,920
HP 400GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream	653120-B21	1	3,019	24	72,456	
HP 500GB 6G SAS 7.2K rpm SFF DP Midline Hard Drive (60 Day)	507610-B21	1	369	5	1,845	
			Subtotal		87,897	7,920
Client Hardware (Tier A)						
HP ProLiant DL360 G7 CTO Server	579237-B21	1	2,348	1	2,348	
HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) Processor	587493-B21	1	2,099	2	4,198	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 Memory Kit	500656-B21	1	110	6	660	
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive	507127-B21	1	309	2	618	
HP NC360T PCIe Dual Port Gigabit Server Adapter	412648-B21	1	219	1	219	
HP 3y 4h 24x7 ProLiant DL36x HW Support ,ProLiant DL36x	U4497E	1	931	1		931
			Subtotal		8,043	931
Client Software						
Microsoft Windows Server 2008 R2 Enterprise Edition	P72-04217	2	2,280	1	2,280	
			Subtotal		2,280	0
Infrastructure						
HP 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A	1	4	4	15	
HP Networking 2910al-24G Switch	J9145A	1	1,836	1	1,836	
3-year, 4-hour onsite, 24x7 coverage for hardware	U2856E	1	998	1		998
HP X242 SFP+ SFP+ 1 m Direct Attach Cable	J9281B	1	157	2	314	
HP V142 1075mm deep Pallet 100 series Rack	AF046S	1	789	1	789	
HP LE1901wm 19-inch Widescreen LCD Monitor	NP446A8#ABA	1	149	1	149	
HP PS/2 Keyboard And Mouse Bundle	RC464AA#ABA	1	39	1	39	
			Subtotal		3,142	998
			Total Extended Price		\$283,883	\$11,324
Large Purchase and Net 30 discount (See Note 1)	28.0%		Total Discounts		\$33,375	\$3,098
			Grand Total		\$250,507	\$8,226
Three-year Cost of Ownership: USD						\$258,734
Pricing: 1=HP Direct 800-203-6748 2= Microsoft. Note 1: Discount based on HP Direct guidance applies to all lines where pricing = 1. Note 2: All the hardware are available to order. Note 3: The benchmark results were audited by Doug Johnson for InfoSizing. www.infosizing.com.						
tpsE						1,416.37
\$ USD/tpsE						\$183
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.						



**HP ProLiant DL385p Gen8
AMD Opteron™ 6386SE Processor
C/S with 1 DL360 G7**

TPC-E Rev 1.12.0
TPC Pricing 1.7.0

Report Date
May 15, 2013

Availability Date
May 15, 2013

Numerical Quantities Summary

Reported Throughput	1416.37 tpsE	Configured Customers:	750,000
Response Times (in seconds)	Minimum Average 90th %tile Maximum		
Broker Volume	0.00	0.02	0.03 0.54
Customer Position	0.00	0.01	0.02 0.63
Market Feed	0.00	0.02	0.04 1.86
Market Watch	0.00	0.01	0.02 0.41
Security Detail	0.00	0.01	0.01 0.29
Trade Lookup	0.00	0.09	0.14 0.53
Trade Order	0.00	0.03	0.05 0.77
Trade Result	0.00	0.03	0.05 1.59
Trade Status	0.00	0.01	0.02 0.54
Trade Update	0.01	0.11	0.15 0.60
Data Maintenance	0.01	0.02	0.09
Transaction Mix	Transaction Count		Mix %
Broker Volume	4,996,878		4.900%
Customer Position	13,256,747		13.000%
Market Feed	1,019,791		1.000%
Market Watch	18,355,544		18.000%
Security Detail	14,276,523		14.000%
Trade Lookup	8,157,946		8.000%
Trade Order	10,299,493		10.100%
Trade Result	10,197,872		10.000%
Trade Status	19,375,413		19.000%
Trade Update	2,039,429		2.000%
Data Maintenance	120		
Ramp-up Time	0:22:00		
Measurement Interval	2:00:00		
Business Recovery Time	1:17:21		
Total Number of Transactions Completed in Measurement Interval	101,975,636		