
	HP ProLiant DL380p Gen8 Intel Xeon CPU E5-2690 C/S with 1 ProLiant DL360 G7		TPC-E Rev 1.12.0
			TPC Pricing 1.7.0
			Report Date Nov. 21, 2012
TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
1881.76 tpsE	\$173 USD/tpsE	Nov. 21, 2012	\$325,268 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	2/16/32 Intel Xeon CPU E5-2690 2.9 GHz 20 MB L3	256 Gbyte
<p style="text-align: center;"><u>Tier B: Server</u> <u>HP ProLiant DL380p Gen8</u></p> <p>2 x Intel Xeon Processor E5-2690 2.90 GHZ 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> <div style="display: flex; align-items: center; justify-content: center;">  </div> <p style="text-align: center;"><u>Tier A: Client</u></p> <p>1 x ProLiant DL360 G7 2x Quad-Core Intel Xeon X5670 Processor 2.93Ghz 3 x 4GB PC3-10600 Memory 2 x 300GB 6G SAS 10K SFF DP 4 x Onboard 1Gbps Ethernet</p> <p style="text-align: center;"><u>Storage</u></p> <p>4 x HP Smart Array P421/1GB 4 x HP StorageWorks D2700 Disk Enclosure 32 X HP 400GB 6G SAS SLC SFF (2.5-inch) SSD</p> <p style="text-align: center;"><u>Priced Only</u> 2 x 500GB 6G SAS 15K SFF DP ENT HDD 60 Day Space</p>			
Initial Database Size	Redundancy Level: 1	Storage	
7,792 GB	RAID10:Log/RAID5:Data	32x 400GB SSD (data), 6x300GB HDD (log), 2x500GB HDD(60Day)	



HP ProLiant DL380p Gen8

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Description	Part Number	Brand	Unit Price	Qty.	Extended Price	3 Yr Maint Price	
Server Hardware (Tier B)							
HP ProLiant DL380p Gen8 8 SFF CTO Chassis	653200-B21	1	2,668	1	2,668		
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor	662226-B21	1	2,849	2	5,698		
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Memory Kit	672631-B21	1	439	16	7,024		
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise	652605-B21	1	389	2	778		
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise (Log)	652611-B21	1	699	6	4,194		
HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21	1	699	1	699		
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	1,061	1		\$1,061	
			Subtotal		\$24,657	\$1,061	
Server Software							
SQL Server 2012 Enterprise Edition SP1, 2 Core License	7JQ-00256	2	13,473	8	107,780		
Windows Server 2012 Standard Edition	P73-05761	2	735	1	735		
Microsoft Problem Resolution Services	N/A	2		1		259	
			Subtotal		\$108,515	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 6G SAS SLC SFF (2.5-inch) 3yr Warranty Solid State Drive	632494-B21	1	7,399	32	236,768		
HP 500GB 6G SAS 7.2K rpm SFF DP Midline Hard Drive (60 Day)	507610-B21	1	349	2	698		
			Subtotal		251,062	7,920	
Client Hardware (Tier A)							
HP ProLiant DL360 G7 CTO Server	579237-B21	1	2,098	1	2,098		
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 3y 4h 24x7 ProLiant DL36x HW Support ,ProLiant DL36x	U4497E	1	828	1		828	
			Subtotal		7,574	828	
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	2,113	1	2,113		
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		3,419	998	
			Total Extended Price		\$397,507	\$11,066	
Large Purchase and Net 30 discount (See Note 1)	28.0%		Total Discounts		\$80,279	\$3,026	
			Grand Total		\$317,228	\$8,040	
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 Lorna Livingtree of Performance Metrics, www.perfmtrics.com.						Three-year Cost of Ownership: USD	\$325,268
						tpsE	1,881.76
						\$ USD/tpsE	\$173
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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Intel Xeon CPU E5-2690
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Numerical Quantities Summary

Reported Throughput	1881.76 tpsE	Configured Customers:	950,000
Response Times (in seconds)	Minimum Average 90th %tile Maximum		
Broker Volume	0.00	0.01	0.03 0.61
Customer Position	0.00	0.01	0.02 1.05
Market Feed	0.00	0.02	0.04 1.01
Market Watch	0.00	0.01	0.02 0.95
Security Detail	0.00	0.01	0.01 0.35
Trade Lookup	0.00	0.08	0.11 1.00
Trade Order	0.00	0.03	0.05 1.14
Trade Result	0.00	0.03	0.05 1.64
Trade Status	0.00	0.01	0.02 0.47
Trade Update	0.01	0.09	0.12 0.55
Data Maintenance	0.01	0.02	0.07
Transaction Mix	Transaction Count		Mix %
Broker Volume	6,639,298		4.900%
Customer Position	17,614,001		13.000%
Market Feed	1,354,873		1.000%
Market Watch	24,389,010		18.000%
Security Detail	18,969,036		14.000%
Trade Lookup	10,839,347		8.000%
Trade Order	13,684,799		10.100%
Trade Result	13,548,699		10.000%
Trade Status	25,743,564		19.000%
Trade Update	2,709,818		2.000%
Data Maintenance	120		
Ramp-up Time	0:15:00		
Measurement Interval	2:00:00		
Business Recovery Time	0:41:30		
Total Number of Transactions Completed in Measurement Interval	135,492,445		