
	HP ProLiant DL380 G7 Intel Xeon X5690 3.46 GHz 12MB L3 C/S with 1 ProLiant DL360 G7		TPC-E Rev 1.12.0
			TPC Pricing 1.6.0
			Report Date May 4, 2011
TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
1284.14 tpsE	\$250 USD/tpsE	May 4, 2011	\$320,984 USD
Database Server Configuration			
Operating System	Database Manager	Processor/Cores/Thread	Memory
Microsoft Windows Server 2008 R2 Enterprise Edition	Microsoft SQL Server 2008 R2 Enterprise Edition	2/12/24 Intel Xeon X5690 3.46 GHz 12MB L3	192 Gbyte
<p>Tier B: Server HP ProLiant DL380 G7</p> <p>2 x Intel Xeon Processor X5690 3.46 GHZ 192 GB Memory</p> <p>2 x HP 72GB SAS 15K SFF DP ENT HDD</p>  <p>Database Log</p> <p>Tier A: Clients 4 x HP 500GB HDD (internal)</p> <p>1 x ProLiant DL360 G7 1 x Quad-Core Intel Xeon X5630 Processor 2.53Ghz 3x 2GB PC3-10600 Memory 2 x 146GB 6G SAS 10K SFF DP 4 x Onboard 1Gbps Ethernet</p> <p>Storage 2 x Violin Memory Systems V3205 Flash Array 4 x 500GB 6G SAS 7.2K SFF DP Midline HDD (log)</p> <p>Priced Only 1x HP SmartArray P411/512MB (60 Day Space) 1x HP StorageWorks MSA70 Array (60 day space) 5x HP 500GB 6G SAS 7.2K RPM SFF HDD (60 day Space)</p>			
Initial Database Size	Redundancy Level: 1	Storage	
5,622 GB	RAID10:Log/RAID3:Data	2x 3205 Violin Array, 4x500GB HDD (log), 5x500GB HDD(60Day)	



HP ProLiant DL380 G7

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Description	Part Number	Brand	Unit Price	Qty.	Extended Price	3 Yr Maint Price
Server Hardware (Tier B)						
HP DL380G7 SFF CTO Chassis	583914-B21	1	2,249	1	2,249	
Intel® Xeon® Processor x5690 DL380G7 Kit 3.46 GHz	633410-B21	1	2,299	2	4,598	
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 Reg. Memory Kit	627812-B21	1	1,349	12	16,188	
HP 72GB 6G SAS 15K rpm SFF Dual Port Hard Drive	512545-B21	1	279	2	558	
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	
HP R1.5 kVA 1U NA UPS	AF419A	1	739	1	739	
HP 500GB 6G SAS 7.2K rpm SFF Dual Port Midline Hard Drive	507610-B21	1	349	4	1,396	
HP 3y 4h 24x7 ProLiant DL38x HW Support ,ProLiant Server DL38x	U4545E	1	931	1		\$931
			Subtotal		\$25,916	\$931
Server Software						
SQL Server 2008 R2 Enterprise Edition, Per Processor License	810-08529	2	23,370	2	46,740	
Windows Server 2008 R2 Enterprise Edition	P72-04219	2	2,320	1	2,320	
Microsoft Problem Resolution Services	N/A	2	259	1		259
			Subtotal		\$49,060	259
Storage						
Violin Memory Systems V3205 Flash Memory Array	V-3205	3	100,500	2	201,000	
Violin Premium Support 1 years of 4h 24 x7 support	VS-PM1Y	3	12,000	3		36,000
HP Smart Array P411/512 MB with BBWC Controller	462832-B21	1	649	1	649	
HP StorageWorks MSA70 Array (60 Day)	418800-B21	1	3,199	1	3,199	
HP 3year 4hour 24x7 MSA 60/70 HW Support (60 Day)	UF303E	1	1,982	1		\$1,982
HP 500GB 6G SAS 7.2K rpm SFF DP Midline Hard Drive (60 Day)	507610-B21	1	349	5	1,745	
HP 5642 Pallet Unassembled Rack	358254-B21	1	865	1	865	
			Subtotal		207,458	37,982
Client Hardware (Tier A)						
HP ProLiant DL360 G7 CTO Server	579237-B21	1	2,098	1	2,098	
HP DL360 G7 Intel Xeon X5630 (2.53Ghz/4-core/12MB/80W) Proc	587478-B21	1	799	1	799	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 Memory Kit	500656-B21	1	110	3	330	
HP 146GB 6G SAS 10K rpm SFFDual Port Hard Drive	512547-B21	1	369	2	738	
HP 3y 4h 24x7 ProLiant DL36x HW Support ,ProLiant DL36x	U4497E	1	750	1		750
			Subtotal		3,965	750
Client Software						
Microsoft Windows Server 2008 R2 Standard (x64)	P73-00352	2	870	1	870	
			Subtotal		870	0
Infrastructure						
HP 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A	1	4	4	15	
			Subtotal		15	0
			Total Extended Price		\$287,284	\$39,922
Large Purchase and Net 30 discount (See Note 1)	16.0%		Total Discounts		\$5,636	\$586
			Grand Total		\$281,648	\$39,336
Pricing: 1=HP Direct 800-203-6748 2= Microsoft. 3= Violin Memory Systems 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.					Three-year Cost of Ownership: USD	\$320,984
					tpsE	1,284.14
					\$ USD/tpsE	\$250

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 DL380 G7
Intel Xeon X5690 3.46 GHz 12MB L3**

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Numerical Quantities Summary

Reported Throughput	1284.14 tpsE	Configured Customers:	700,000
Response Times (in seconds)		Minimum Average	90 th %tile Maximum
Broker Volume	0.00	0.02	0.03 0.08
Customer Position	0.00	0.02	0.03 0.99
Market Feed	0.00	0.02	0.04 1.03
Market Watch	0.00	0.02	0.03 0.78
Security Detail	0.00	0.01	0.02 0.58
Trade Lookup	0.00	0.09	0.13 0.31
Trade Order	0.00	0.05	0.07 1.36
Trade Result	0.00	0.06	0.08 1.51
Trade Status	0.00	0.01	0.02 1.41
Trade Update	0.01	0.11	0.14 1.11
Data Maintenance	0.01	0.02	0.07
Transaction Mix		Transaction Count	Mix %
Broker Volume		4,530,563	4.900%
Customer Position		12,019,737	13.000%
Market Feed		924,589	1.000%
Market Watch		16,642,715	18.000%
Security Detail		12,944,393	14.000%
Trade Lookup		7,396,827	8.000%
Trade Order		9,338,494	10.100%
Trade Result		9,245,860	10.000%
Trade Status		17,567,706	19.000%
Trade Update		1,849,068	2.000%
Data Maintenance		120	
Ramp-up Time			0:33:59
Measurement Interval			2:00:00
Business Recovery Time			0:31:20
Total Number of Transactions Completed in Measurement Interval			92,459,952

