



HP ProLiant DL385 G7

TPCE Rev 1.9.0

TPC Pricing 1.5.0

Report Date

April 7, 2010

TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
887.38	\$296 USD/tpsE	May 6, 2010	\$262,023 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	2/24/24	128GB

Tier B: Server HP ProLiant DL385G7

2 x AMD Opteron Processor 6176 SE 2.30 GHZ
 128GB Memory
 1 x HP NC360T PCI Express Dual Port Gigabit Server Adapter
 2 x HP 72GB 3G SAS 10K SFF DP



Database Log

Tier A: Clients

2 x ProLiant DL360g5
 2 x Quad-Core Intel Xeon processor E5420 2.50Ghz
 8 x 72GB SAS 10K SFF DP
 2 x Onboard 1Gbps Ethernet
 2 x HP NC360T PCI-E Dual Port

4 x HP 300GB
 6G SAS 10K SFF
 DP (internal)

Storage

5 x HP Smart Array P411/512 MB
 16 x HP StorageWorks MSA2700 Array
 400 x 72GB 6G SAS 15K SFF DP

Priced Configuration

Initial Database Size 3822 GB	Redundancy Level : 1 RAID10 : Log/ RAID10 : Data	Storage 400x72GB 15K , 4x300GB 10K
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Description	Part Number	Brand	Unit Price	Qty.	Extended Price	3 Yr Maint Price
Server Hardware (Tier B)						
HP DL385G7 CTO Chassis	573122-B21	1	1,511	1	1,511	
AMD Opteron Processor 6176 SE 2.30 GHz	585322-L21	1	1,799	2	3,598	
HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21	1	990	16	15,840	
HP 72GB 3G SAS 10K SFF DP ENT HDD	384842-B21	1	259	2	518	
HP Smart Array P411/512 MB with BBWC Controller	462832-B21	1	649	5	3,245	
HP NC360T PCI Express Dual Port Gigabit Server Adapter	412648-B21	1	229	1	229	
HP LE1851w 18.5-Inch wide Monitor	NK033AA#ABA	1	159	1	159	
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 300GB SAS 10K SFF DP ENT HDD	512547-B21	1	499	4	1,996	
HP 3y 4h 24x7 ProLiant DL38x HW Support ,ProLiant Server DL38x	U4545E	1	837	1		\$837
Subtotal					\$27,874	\$837
Server Software						
SQL Server 2008 R2 Enterprise Edition, Per Processor License	*	2	23,358	2	46,716	
Windows Server 2008 R2 Enterprise Edition	P72-03868	2	2,320	1	2,320	
Microsoft Problem Resolution Services	N/A	2	245	1		245
Subtotal					\$49,036	245
Storage						
HP StorageWorks MSA70 Array	418800-B21	1	3,199	16	51,184	
HP StorageWorks MSA70 Array (10% Spares)	418800-B21	1	3,199	2	6,398	
HP 72GB 6G SAS 15K SFF DP ENT HDD	512545-B21	1	349	400	139,600	
HP 72GB 6G SAS 15K SFF DP ENT HDD (10% Spares)	512545-B21	1	349	40	13,960	
HP 5642 Pallet Unassembled Rack	358254-B21	1	865	2	1,730	
Subtotal					212,872	0
Client Hardware (Tier A)						
HP ProLiant DL360 G5 E5420 2.50GHz Quad Core 2GB Rack Server	457925-001	1	2,499	2	4,998	
HP 72GB 3G SAS 10K SFF DP ENT HDD	384842-B21	1	259	8	2,072	
HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21	1	229	2	458	
HP 3y 4h 24x7 ProLiant DL36x HW Support ,ProLiant DL36x	U4497E	1	698	2		1,396
Subtotal					7,528	1,396
Client Software						
Microsoft Windows Server 2008 Standard (x64)	P73-04980	2	725	2	1,450	
Subtotal					1,450	0
Infrastructure						
HP ProCurve Switch 2510-48	J9020A	1	759	1	759	
3-year, 4-hour onsite, 24x7 coverage for hardware	U4835E	1	227	1		227
HP 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A	1	4	12	44	
Subtotal					803	227
Total Extended Price					\$299,563	\$2,705
HP's Large Configuration Discount *	16.0%	Total Discounts			\$39,852	\$394
Grand Total					\$259,711	\$2,311
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. MS software part number * is not available until May 6, 2010 - see MS quote in the FDR. Note 3: The benchmark results were audited by Lorna Livingtree of Performance Metrics.					Three-year Cost of Ownership: USD \$262,023 TpsE 887.38 \$ USD/tpsE \$296	
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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Numerical Quantities Summary

Reported Throughput	887.38	Configured Customers:			450,000
Response Times (in seconds)	Minimum Average 90 th %tile Maximum				
Broker Volume	0.01	0.05	0.08	1.87	
Customer Position	0.00	0.04	0.07	2.68	
Market Feed	0.00	0.04	0.10	2.67	
Market Watch	0.00	0.03	0.06	1.88	
Security Detail	0.00	0.02	0.03	1.81	
Trade Lookup	0.00	0.65	0.85	3.77	
Trade Order	0.00	0.09	0.15	1.98	
Trade Result	0.00	0.10	0.16	4.35	
Trade Status	0.00	0.03	0.05	2.06	
Trade Update	0.01	0.72	0.86	3.72	
Data Maintenance	0.00	0.06		0.31	
Transaction Mix	Transaction Count		Mix %		
Broker Volume	3,130,191		4.900%		
Customer Position	8,305,074		13.000%		
Market Feed	638,924		1.000%		
Market Watch	11,499,432		18.000%		
Security Detail	8,943,758		14.000%		
Trade Lookup	5,110,211		7.999%		
Trade Order	6,452,229		10.100%		
Trade Result	6,389,169		10.001%		
Trade Status	12,138,275		19.000%		
Trade Update	1,277,631		2.000%		
Data Maintenance	120				
Ramp-up Time	00:35:23				
Measurement Interval	2:00:00				
Business Recovery Time	00:46:49				
Total Number of Transactions Completed in Measurement Interval	63,884,894				