





	<p align="center"><b>HP ProLiant DL385p Gen8</b>  <b>AMD Opteron™ 6386SE Processor</b>  <b>C/S with 1 ProLiant DL360 G7</b></p>		TPC-VMS: 1.1.0
			TPC-E: 1.12.0
			TPC Pricing: 1.7.0
			Report Date: August 26, 2013
TPC-VMS Throughput	Price/Performance	Availability Date	Total System Cost
457.55 VMStpsE	\$571 USD/VMStpsE	September 30, 2013	\$261,121 USD
<b>Virtual System Under Test Configuration</b>			
<b>VMMS</b>	<b>Processor/Cores/Thread</b>		<b>Memory</b>
VMware vSphere 5.5	2/32/32 AMD Opteron™ 6386SE Processor 2.8GHz GHz 16 MB L3		256 Gbyte
<p><b>Tier B: Server</b>  <b>HP ProLiant DL385p Gen8</b></p> <p>2 x AMD Opteron™ 6386SE (2.8GHz/16-core) Processor(2/32/32)  256 GB Memory  3 x HP Smart Array P421/2GB, One per each VM  2 x HP 146GB SAS 15K SFF DP ENT HDD (Boot)  6 x HP 146GB SAS 15K SFF DP ENT HDD 2 Drives for each VM (Database Log)</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin: 0 10px;">  <p>3X 1Gbps Ethernet</p> </div>  <div style="margin-left: 20px;">  <p>3X</p> </div> </div>			
<p><b>Tier A: Client</b></p> <p>1 x ProLiant DL360 G7  2x Hex-Core Intel Xeon X5670 Processor 2.93Ghz  2 x 8GB PC3-10600 Memory  2 x 146GB 6G SAS 15K SFF DP  4 x Onboard 1Gbps Ethernet</p>		<p><b>Storage</b></p> <p>3 x HP StorageWorks D2700 Disk Enclosure, one per each VM  24 X HP 400GB 6G SATA MLC SFF (2.5-inch) SSD 8 per enclosure, per VM.</p> <p><b>Priced Only</b>  6 x 500GB 6G SAS 15K SFF DP ENT HDD (60 Day Space)</p>	

	<b>HP ProLiant DL385p Gen8 AMD Opteron™ 6386SE Processor C/S with 1 ProLiant DL360 G7</b>		TPC-VMS: 1.1.0
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			TPC Pricing: 1.7.0
			Report Date: August 26, 2013
	VM1	VM2	VM3
Performance	457.55 tpsE	468.11 tpsE	470.31 tpsE
Maximum Number of Virtual Processors	10	10	10
VM Memory	80GB	80GB	80GB
Maximum Capacity of Virtual Storage	4173GB	4173GB	4173GB
Operating System	Microsoft Windows Server 2012 Standard Edition	Microsoft Windows Server 2012 Standard Edition	Microsoft Windows Server 2012 Standard Edition
Database Manager	Microsoft SQL Server 2012 Enterprise Edition SP1	Microsoft SQL Server 2012 Enterprise Edition SP1	Microsoft SQL Server 2012 Enterprise Edition SP1
Scaling Component	240,000	240,000	240,000
Initial Number of Row Per VM	28,091,588,432	28,091,588,432	28,091,588,432
Initial Database Size Per VM	1961GB	1961GB	1961GB

		<b>HP ProLiant DL385p Gen8 TPC-VMS 1.1.0</b>				TPC-E	1.12.0	
						TPC-Pricing	1.7.0	
						Report date	26-Aug-13	
						Availability Date	30-Sep-13	
Description	Part Number	Brand	Unit Price	Qty.	Extended Price	3 Yr Maint Price		
<b>Server Hardware (Tier B)</b>								
HP ProLiant DL385p Gen8 8 SFF Configure-to-order Server	653203-B21	1	2,563	1	2,563			
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	319	16	5,104			
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise	652605-B21	1	339	8	2,712			
HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller	631674-B21	1	899	3	2,697			
HP 3 year 4 hour 24x7 ProLiant DL38x(p) Hardware Support	U4545E	1	1,371	1		\$1,371		
					<b>Subtotal</b>	<b>\$16,674</b>	<b>\$1,371</b>	
<b>Server Software</b>								
SQL Server 2012 Enterprise Edition SP1, 2 Core License	7JQ-00256	2	13,472.50	12	161,670			
Windows Server 2012 Standard Edition	P73-05761	2	735	2	1,470			
Microsoft Problem Resolution Services	N/A	2	259	1		259		
VMware VSphere 5.5 Enterprise 1 Processor	BD713AAE	1	\$4,678	2	9,356			
					<b>Subtotal</b>	<b>\$172,496</b>	<b>259</b>	
<b>Storage</b>								
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	6	2,214			
					<b>Subtotal</b>	<b>88,266</b>	<b>7,920</b>	
<b>Client Hardware (Tier A)</b>								
HP ProLiant DL360 G7 CTO Server	579237-B21	1	1,721	1	1,721			
HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) Processor	588062-B21	1	2,099	2	4,198			
HP 8GB (1x8GB) Dual Rank x8 PC3-10600 Memory Kit	500662-B21	1	169	2	338			
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive	512547-B21	1	369	2	738			
HP 3y 4h 24x7 ProLiant DL36x HW Support ,ProLiant DL36x	U4497E	1	1,086	1		1,086		
					<b>Subtotal</b>	<b>6,995</b>	<b>1,086</b>	
<b>Client Software</b>								
Microsoft Windows Server 2008 R2 Enterprise Edition	P72-04217	2	2,280	1	2,280			
					<b>Subtotal</b>	<b>2,280</b>	<b>0</b>	
<b>Infrastructure</b>								
HP 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A	1	4.00	5	20			
HP V142 1075mm deep Pallet 100 series Rack	AF046S	1	709	1	709			
HP W2072a 20-inch Diagonal LED Backlit LCD Monitor	A3M50AA#ABA	1	143	1	143			
HP Keyboard And Mouse Bundle	LV290AA#ABL	1	18	1	18			
					<b>Subtotal</b>	<b>890</b>	<b>0</b>	
					<b>Total Extended Price</b>	<b>\$287,601</b>	<b>\$10,636</b>	
Large Purchase and Net 30 discount (See Note 1)					28.0%	<b>Total Discounts</b>	<b>\$34,211</b>	<b>\$2,906</b>
					<b>Grand Total</b>	<b>\$253,390</b>	<b>\$7,730</b>	
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.						<b>Three-year Cost of Ownership: USD</b>		<b>\$261,121</b>
						<b>tpsE</b>		<b>457.55</b>
						<b>\$ USD/VMStepsE</b>		<b>\$571</b>
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.								