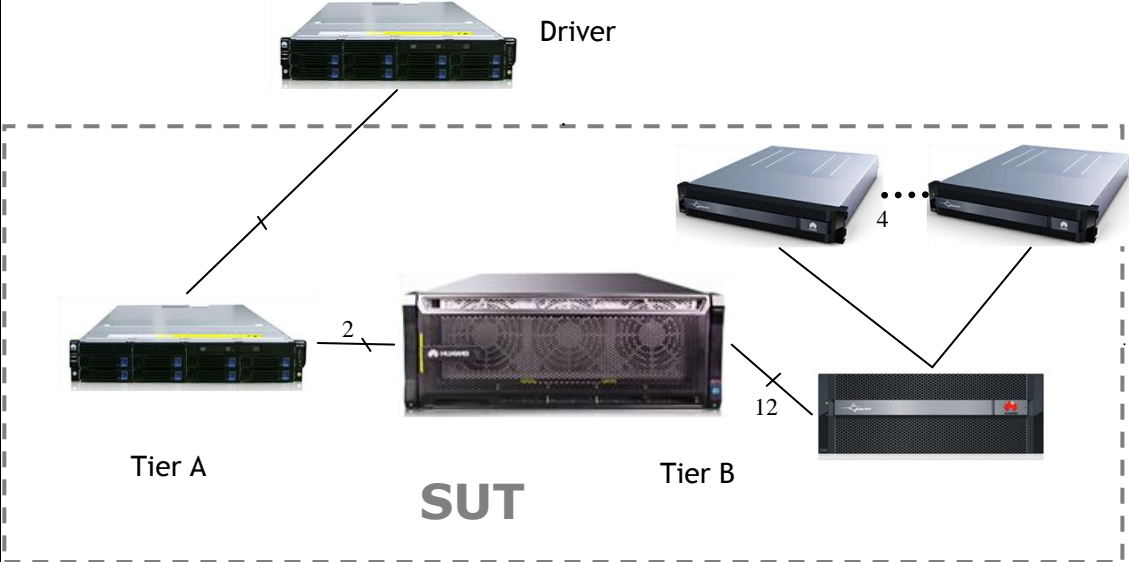
	<h1>Huawei Tecal RH5885 V2</h1>		<b>TPC-E 1.12.0</b> <b>TPC Pricing</b> <b>1.7.0</b>
			Report date Dec 14, 2012
TPC-E Throughput <b>3053.84 tpsE</b>	Price/Performance <b>\$352.48</b> USD per tpsE	Availability Date <b>Oct 30, 2012</b>	Total System Cost <b>\$1,076,417USD</b>
<b>Database Server Configuration</b>			
Operating System <b>Microsoft Windows          Server 2008 R2          Enterprise Edition          with SP1</b>	Database Manager <b>Microsoft SQL server          2012 Enterprise          Edition</b>	Processors/Cores/Threads <b>4/40/80</b>	Memory <b>1024GB</b>
			
Huawei Tecal RH2285 - 2 x Intel Xeon Processor x5670 2.93GHz (2 proc/12cores/24threads) - 16GB Memory - Onboard Dual-Port Gigabit Ethernet - PCI-E Dual-Port Gigabit Ethernet	Huawei Tecal RH5885 V2 - 4 x Intel Xeon Processor E7-4870 2.40 GHz (4 proc/40cores/80threads) - 1 TB Memory(64 x 16 GB) - 2 x 300G 10K RPM (RAID 1) - 6 x 300G 10K RPM (RAID 10) - Onboard Quad-Port Gigabit Ethernet - 1 x LSI MegaRAID SAS 9260-8i - 8 x 8Gb Dual-port FC HBA	Huawei OceanStor Dorado5100 - 4 Enclosures 24 x 200GB SSD 96 total SSD Drivers Huawei OceanStor S5500T - 6 x 2TB 7.2K RPM SATA (60 days space)	
Initial Database Size <b>12,735 GB</b>	Redundancy Level: 1 <b>RAID-10 Log</b> <b>RAID-5 Data</b>		Storage <b>96 x 200 GB</b> <b>8 x 300 GB</b> <b>6 x 2000 GB</b>



# Huawei Tecal RH5885 V2

**TPC-E 1.12.0**  
**TPC Pricing**  
**1.7.0**

Report date  
 Dec 14, 2012

Description	Part Number	Price Source	Unit Price	Quantity	Extended Price	3-Yr. Maint. Price
<b>Server Hardware</b>						
Huawei Tecal RH5885 V2 Rack Server-4*GE-DVDROM-No RAID	02310MSM		1	5,119	1	5,119
EPW3000-12A-X-BC2MP3KM-3000W AC Power Module	02310KEU		1	690	2	1,380
RAID Card for RH5885V2-RAID0/1/5/10-1G Cache	02310MTX		1	659	1	659
X86 series-LGA1567-2400MHz-0.9V-64bit-130000mW-Westmere	41020286		1	8089	4	32,356
Xeon E7-4870-10Core						
Hard Disk-SAS 300G-10000rpm-2.5"	06210133		1	289	8	2,312
Memory board(support 8 DIMMs)	03030QGA		1	329	8	2,632
MEMORY, DDR3 RDIMM-16G-240 PIN-1.5ns-1333000KHz-1.35V-ECC&Registered&Address Parity-2 Rank(1G*4bit)-Height 30mm	06200107		1	409	64	26,176
Qlogic-DualPort FC HBA Card,PCI-E, 8Gbps,Fiber Channel	06030220		1	976	8	7,808
Multimode LC Optic Interface,English Manual						
Basic-Maintenance-Tecal RH5885 V2 Rack Server 3 years -5*9	88134CNK		1	11,372	1	11,372
Tecal Server-First Onsite installation service- International	88120NMN		1	6,065	1	6,065
Premium-Maintenance-Tecal RH5885 V2 Rack Server 3 years -7*24	88133MVX		1	2,274	1	2,274
Maintenance Service						
					<b>Subtotal</b>	<b>78,442</b>
						<b>19,711</b>
<b>Server storage</b>						
OceanStor Dorado5100 High Performance Solid State Storage System Controller Enclosure(AC,1000000 IOPS,8GBps Bandwidth,8*8G FC Front-End Port,4*4*6G SAS Back-End Port,with HS HSSD Controller System Software,SPE61C0200)	0235G752		1	19,378	1	19,378
2*24Gbps SAS-wide I/O modules(Total 2 ports)	0302G247		1	1,034	8	8,272
4*8Gbps Fibre Channel I/O modules(Total 4 ports)	0302G248		1	1,219	4	4,876
High Performance Solid State Storage System Disk Enclosure-4.8TB(2U,AC,24*200GB SLC,with HS SAS in Band Management Software,DAE12425U2)	0235G74V		1	107,417	4	429,669
Patchcord,DLC/PC-DLC/PC,Multimode,2mm Parallel,3m	14130321		1	11	12	132
HS Integrated Storage Manager-Device Management License for Dorado	3107G04D		1	5,466	1	5,466
OceanStor Dorado5100 High Performance Solid State Storage System Controller Enclosure(AC,1000K IOPS,8GBps Bandwidth,8*8G FC Front-End Port,4*24G SAS Back-End Port,with HW Solid-state Storage System Software)-Warranty Upgrade To Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3 Year(s)	88134ULJ		1	9,009	1	9,009
High Performance Solid State Storage System Disk Enclosure-4.8TB(2U,AC,24*200GB SLC,with HS SAS in Band Management Software,DAE12425U2)-Warranty Upgrade To Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3 Year(s)	88134ULJ		1	49,930	4	199,720
SPE31C0212-31 Controller Enclosure(2U,3.5",Dual Controller,AC,8GB Cache,2*4*8G FC Front-End Port,2*2*24G SAS Back-End Port(Wide Port),UPS Cache Protected Module,HS Storage Array Control System Software)	0235G6MU		1	6,119	1	6,119
2000GB 7.2K RPM SAS-SATA Disk Unit(3.5")	0235G6HP		1	537	6	3,222
Patchcord,DLC/PC-DLC/PC,Multimode,2mm Parallel,3m	14130321		1	11	1	11
OceanStor HS UltraPath Software License	3107G01B		1	1,938	1	1,938
HS Integrated Storage Manager-Device Management License for OceanStor Block S5500T	3107G03E		1	1,616	1	1,616
SPE31C0212-31 Controller Enclosure(2U,3.5",Dual Controller,AC,8GB Cache,2*4*8G FC Front-End Port,2*2*24G SAS Back-End Port(Wide Port),UPS Cache Protected Module,HS Storage Array Control System Software)-Warranty Upgrade To Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3 Year(s)	88134ULJ		1	3,593	1	3,593
2000GB 7.2K RPM SAS-SATA Disk Unit(3.5")-Warranty Upgrade To Hi-Care Onsite Premier 24x7x4H Engineer Onsite Service-3 Year(s)	88134ULJ		1	250	6	1,500
					<b>Subtotal</b>	<b>480,699</b>
						<b>213,822</b>



# Huawei Tecal RH5885 V2

**TPC-E 1.12.0  
TPC Pricing  
1.7.0**

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Server Software								
SQL Server 2012 Enterprise Edition	7JQ-00256	2	13,473	20		269,450		
Windows Server 2008 R2 Enterprise Edition	P72-04217	2	2,280	1		2,280		
Microsoft Problem Resolution Services	N/A	2	259	1				259
<b>Subtotal</b>						<b>271,730</b>		<b>259</b>
Client Hardware								
Tecal RH2285(Chassis for 8HDD,2*GE)	02317715	1	859	1		859		
750W golden AC power supply module	98080310	1	265	2		530		
X86 series,LGA1366,2930MHz,0.9V,64bit,95000mW,Westmere	41020199	1	2679	2		5,358		
Xeon X5670,6kernel,ECP Dedicated								
Memory Module,DDR3,8GB,240pin,1333000KHz,1.35V,ECC,2Rank	06200111	1	159	2		318		
HardDisk,1000GB,SATA III 6.0Gb/s,7200rpm or Above,3.5",64M,Hot-Swappable,Built-In,Extended	06210158	1	299	2		598		
DVD-RW,CD 24X/DVD								
8X,SATA,12.7"128"126.1mm,embedded,SATA,5V POWER	06020085	1	59	1		59		
SR100 RAID Card(RAID0,1,1E)	03020PLF	1	189	1		189		
NIC,Dual Port Gigabit Ethernet Server Adapter,RJ45 Copper,Dual Port,PCI-E 2.0 X4-8086-10C9-2,Driver CD	06310023	1	128	1		128		
Rail set	98080308	1	46	1		46		
Tecal RH2285(Chassis for 8HDD,2*GE)-Warranty Upgrade To Hi-Care Onsite Standard 24x7x4H Engineer Onsite Service-1 Year(s)	02310FKE	1	301	3				903
<b>Subtotal</b>						<b>8,085</b>		<b>903</b>
Client Software								
Windows Server 2008 R2 Enterprise Edition	P72-04217	2	2,280	1		2,280		
<b>Subtotal</b>						<b>2,280</b>		<b>0</b>
Infrastructure								
ViewSonic VA1938WA-LED Black 19" (18.5" Vis) 5ms Widescreen LCD Monitor(2 spares)	N82E16824116523	3	120	3		360		
Microsoft Wireless Desktop 2000 M7J-00001 Black USB RF Wireless Ergonomic Keyboard & Mouse(2 spares)	N82E16823109235	3	38	3		114		
Coboc 3 ft. Cat 6 550MHz UTP Network Cable (2 spares)	N82E16812117400	3	2	6		12		
<b>Subtotal</b>						<b>486</b>		<b>0</b>
<b>Total :</b>						<b>841,722</b>		<b>234,695</b>
								<b>1,076,417</b>
Pricing: 1-Huawei;2-Microsoft; 3-newegg.com;				3-Year Cost of Ownership (USD):		\$1,076,417		
				TPC-E Throughput:		3,053.84		
				S(USD)/tpsE:		\$352.48		

Benchmark results and test methodology audited by Doug Johnson for InfoSizing, Inc. ([www.sizing.com](http://www.sizing.com))

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 section of the TPC benchmark specifications. If you find that stated prices are not available according to these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org). Thank you.



# Huawei Tecal RH5885 V2

**TPC-E 1.12.0**  
**TPC Pricing 1.7.0**

Report date  
Dec 14, 2012

Availability Date  
Oct 30, 2012

Numerical Quantities Summary				
<b>Reported Throughput: 3053.84 tpsE</b>		<b>Configured Customers: 1,550,000</b>		
Response Time (in seconds)	Minimum	Average	90% Percentile	Maximum
Broker Volume	0.00	0.03	0.05	0.35
Customer Position	0.00	0.02	0.03	0.36
Market Feed	0.00	0.02	0.04	0.19
Market Watch	0.00	0.02	0.03	0.34
Security Detail	0.00	0.01	0.02	0.34
Trade Lookup	0.00	0.10	0.15	0.49
Trade Order	0.00	0.05	0.07	0.39
Trade Result	0.00	0.06	0.08	5.96
Trade Status	0.00	0.01	0.02	0.35
Trade Update	0.01	0.12	0.16	0.45
Data Maintenance	0.01	0.03	N/A	0.18
Transaction Mix		Transaction Count		Mix%
Broker Volume		10,773,579		4.900%
Customer Position		28,582,613		13.000%
Market Feed		2,198,780		1.000%
Market Watch		39,576,407		18.000%
Security Detail		30,781,663		14.000%
Trade Lookup		17,589,196		8.000%
Trade Order		22,206,628		10.100%
Trade Result		21,987,699		10.000%
Trade Status		41,774,954		19.000%
Trade Update		4,397,330		2.000%
Data Maintenance		120		N/A
Test Duration and Timings				
Ramp-up Time(hh:mm:ss)				0:21:00
Measurement Interval(hh:mm:ss)				2:00:00
Business Recovery Time(hh:mm:ss)				3:31:06
Total Number of Transactions Completed in Measurement Interval				219,868,849