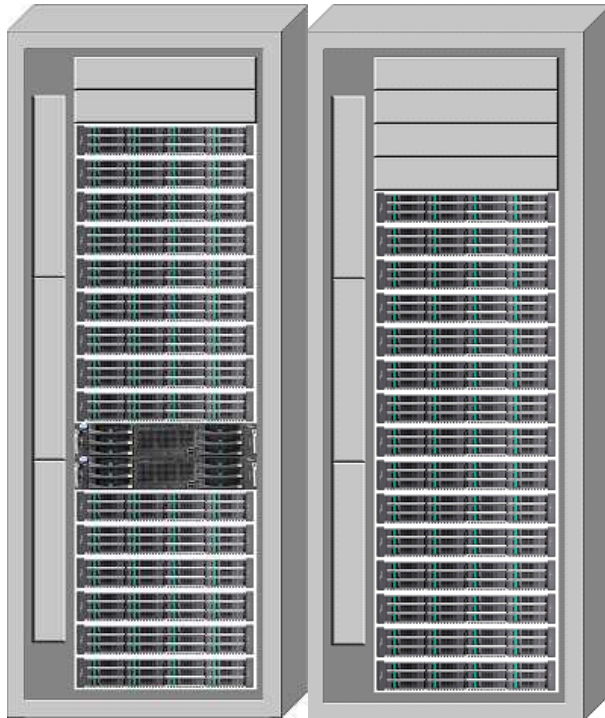
		<b>PRIMERGY RX300 S5</b>		<b>TPC-E 1.7.0</b> <b>TPC Pricing 1.3.0</b>
				Report Date March 30, 2009
TPC-E Throughput <b>800.00 tpsE</b>	Price/Performance <b>\$ 343.91 USD per tpsE</b>	Availability Date <b>April 1, 2009</b>	Total System Cost <b>\$ 275,131</b>	
<b>Database Server Configuration</b>				
Operating System <b>Microsoft Windows Server 2008 Enterprise x64 Edition</b>	Database Manager <b>Microsoft SQL Server 2008 Enterprise x64 Edition</b>	Processors/Cores/Threads <b>2/8/16</b>	Memory <b>96 GB</b>	
<b>SUT</b>				
		<b>Tier A</b> PRIMERGY RX300 S4 2x Intel Xeon E5420 2.50 GHz 4 GB Memory 1x 250 GB SATA Drive Onboard 2x 1 Gb/s Dual Port LAN 1 Gb/s		
		<b>Tier B</b> PRIMERGY RX300 S5 2x Intel Xeon X5570 2.93 GHz 96 GB Memory 2x 73 GB 15K SAS Drives 4x 300 GB 15K SAS Drives Onboard SAS RAID Controller 5x SAS RAID Controller Onboard 2x 1 Gb/s		
		<b>Storage</b> 2x PRIMECENTER Rack 30x FibreCat SX40 192x 73 GB 15K SAS Drives 168x 146 GB 15K SAS Drives		
Initial Database Size <b>3,093 GB</b>	Redundancy Level 1 <b>RAID-10</b>		Storage <b>192 x 73 GB 15K</b> <b>168 x 146GB 15K</b> <b>4 x 300GB 15K</b>	



## PRIMERGY RX300 S5

**TPC-E 1.7.0**  
**TPC Pricing 1.3.0**

Report Date  
March 30, 2009

Availability Date  
April 1, 2009

Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3-yr. Maint. Price
<b>Database Server Hardware</b>						
<b>FSCR3S4_S26361-K1237-V101_80039-01</b>		1	21,621.45	1	21,621.45	
PRIMERGY RX300 S5 Basic unit with	S26361-K1237-V101			1		
6x 3.5" hard disk drive bays Rack version for 19				1		
Xeon DP X5570 (2.93GHz/8MB/4GT) / 95W	S26361-F3280-E293			2		
Memory SP 24GB (3x 8GB dual rank)	S26361-F3284-E535			4		
DVD-RW supermulti slimline SATA	S26361-F3269-E1			1		
HD SAS 3Gb/s 72GB 15k hot plug 3.5"	S26361-F3204-E573			2		
HD SAS 3Gb/s 300GB 15k hot plug 3.5"	S26361-F3204-E530			4		
RAID 5/6 SAS based on LSI MegaRAID 256MB	S26361-F3257-E256			1		
RAID Ctrl SAS 8Port 512M w/o BBU LP LSI	S26361-F3890-E201			5		
RMK-P_1-2U servers (new)	S26361-F2735-E110			1		
SCENICVIEW A17-3	S26361-K1146-V150	1	191.25	1	191.25	
KB SLIM MF USA	S26381-K370-V510	1	22.10	1	22.10	
Optical Wheelmouse USB silver	S26381-K355-L400	1	15.30	1	15.30	
PYR3S4 Enhanced +, 24 x 7 Phone Support; 24 x 7, 4-hour On-Site Resp.(Sev-1), Warranty Uplift Maintenance, 36 Months, Prepaid billing	PYR3S4-U004361-0NA	1	854.10	1		854.10
				<b>Subtotal</b>	21,850.10	854.10
<b>Server Storage</b>						
<b>FSCPCTR_S26361-K826-V103_80041-01</b>		1	2,343.45	1	2,343.45	
PRIMECENTER Rack 38 U, 1000 deep	S26361-K826-V103			1		
Dummy panel, plastics, 2U + assembly	S26361-F2735-E131			6		
Socket strip 3phase 3x 8 sockets	S26361-F2262-E31			2		
<b>FSCPCTR_S26361-K826-V103_80041-05</b>		1	2,357.05	1	2,357.05	
PRIMECENTER Rack 38 U, 1000 deep	S26361-K826-V103			1		
Dummy panel, plastics, 2U + assembly	S26361-F2735-E131			7		
Socket strip 3phase 3x 8 sockets	S26361-F2262-E31			2		
<b>FSCSX40_S26361-K1122-V200_80041-02/06</b>		1	4,460.80	16	71,372.80	
FibreCAT SX40 SAS Disk Subsystem	S26361-K1122-V200			16		
HD SAS 3Gb/s 73GB 15k hot pl 3.5" SX40	S26361-F3244-E573			192		
Rack installation ex works, SX10, 1U Nod	S26361-F1647-E302			16		
<b>FSCSX40_S26361-K1122-V200_80041-03</b>		1	5,001.40	14	70,019.60	
FibreCAT SX40 SAS Disk Subsystem	S26361-K1122-V200			14		
HD SAS 3Gb/s 146GB 15k hot pl 3.5" SX40	S26361-F3244-E514			168		
Rack installation ex works, SX10, 1U Nod	S26361-F1647-E302			14		
PYSX40 Enhanced +, 24 x 7 Phone Support; 24 x 7, 4-hour On-Site Resp.(Sev-1), Warranty Uplift Maintenance, 36 Months,	PYSX40-U004361-0NA	1	1,644.30	30		49,329.00
SAS CBL EXT 6m 8088-8470	S26361-F3246-L603	1	107.95	5	539.75	
SAS CBL EXT 2m 8088-8470	S26361-F3246-L203	1	62.90	5	314.50	
SAS cable external 0.5 m	S26361-F3246-L5	1	59.50	20	1,190.00	
				<b>Subtotal</b>	148,137.15	49,329.00



## PRIMERGY RX300 S5

**TPC-E 1.7.0**  
**TPC Pricing 1.3.0**

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<b>Server Software</b>						
SQL Server 2008 Enterprise x64 Edition Per Processor License	810-07509	2	23,911.00	2	47,822.00	
Windows Server 2008 Enterprise Edition (x64)	P72-03195	2	2,357.00	1	2,357.00	
Microsoft Problem Resolution Services	n/a	2	245.00	1		245.00
				<b>Subtotal</b>	<b>50,179.00</b>	<b>245.00</b>
<b>Tier A Client Hardware</b>						
<b>FSCR3S4_S26361-K1151-V101_80041-04</b>						
PY RX300S4 6x3.5	S26361-K1151-V101	1	2,531.30	1	2,531.30	
Xeon DP E5420 2.50 GHz 2x6MB 1333MHz	S26361-F3882-E250			2		
2GB 2x1GB FBD667 PC2-5300F d ECC	S26361-F3263-E522			2		
CD-RW/DVD slimline SATA	S26361-F3268-E1			1		
HD SATA 3Gb/s 250GB 7.2k hot plug 3.5"	S26361-F3265-E250			1		
RAID 0/1 SAS based on LSI MegaRAID 8Port	S26361-F3257-E8			1		
Rack installation ex works	SNP:SY-F1647E301-P			1		
RMK-P_1-2U servers (new)	S26361-F2735-E110			1		
Eth Ctrl 2x1 Gbit PCIe PRO/1000PT Cu Ip	S26361-F3228-L201	1	161.50	1	161.50	
SCENICVIEW A17-3	S26361-K1146-V150	1	191.25	1	191.25	
KB SLIM MF USA	S26381-K370-V510	1	22.10	1	22.10	
Optical Wheelmouse USB silver	S26381-K355-L400	1	15.30	1	15.30	
PYR3S4 Enhanced +, 24 x 7 Phone Support; 24 x 7, 4-hour On-Site Resp.(Sev-1), Warranty Uplift Maintenance, 36 Months,	PYR3S4-U004361-0NA	1	854.10	1		854.10
				<b>Subtotal</b>	<b>2,921.45</b>	<b>854.10</b>
<b>Tier A Client Software</b>						
Windows Server 2003 R2 Standard x64 Edition	P73-01664	2	719.00	1	719.00	
<b>Infrastructure or Connectivity</b>						
LAN_crossover-Cat 5e, l=5m	S26361-F3482-L5	1	21.25	2	42.50	
				<b>Total</b>	<b>223,849.20</b>	<b>51,282.20</b>
Notes:				<b>Three-Year Cost of Ownership USD</b>		\$275,131
Price Source: 1=Fujitsu, 2=Microsoft Corporation				<b>TPC-E Throughput</b>		800.00
				<b>\$ USD/tpsE</b>		\$343.91

The benchmark results and test methodology were audited by Francois Raab of 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 pricing specifications. If you find that the stated prices are not available according to



# PRIMERGY RX300 S5

**TPC-E 1.7.0**  
**TPC Rev 1.3.0**

Report Date  
March 30, 2009

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April 1, 2009

Numerical Quantities Summary				
Reported Throughput:		Configured Customers:		
	<b>800.00 tpsE</b>			<b>400,000</b>
Response Times (in seconds)	Minimum	Average	90th%tile	Maximum
Broker Volume	0.00	0.04	0.07	0.28
Customer Position	0.00	0.05	0.08	2.44
Market Feed	0.00	0.05	0.15	4.16
Market Watch	0.00	0.03	0.06	1.30
Security Detail	0.00	0.02	0.04	2.94
Trade Lookup	0.00	0.65	0.83	2.12
Trade Order	0.00	0.13	0.19	5.76
Trade Result	0.00	0.14	0.21	7.92
Trade Status	0.00	0.04	0.07	0.89
Trade Update	0.03	0.76	0.90	8.44
Data Maintenance	0.00	0.16	N/A	2.93
Transaction Mix		Transaction Count		Mix %
Broker Volume		2,825,616		4.900%
Customer Position		7,496,502		13.000%
Market Feed		576,682		1.000%
Market Watch		10,379,872		18.000%
Security Detail		8,073,259		14.000%
Trade Lookup		4,612,800		7.999%
Trade Order		5,824,314		10.100%
Trade Result		5,766,750		10.000%
Trade Status		10,956,357		19.000%
Trade Update		1,153,083		2.000%
Data Maintenance		120		N/A
Test Duration and Timings				
Ramp-up Time (hh:mm:ss)	00:18:25			
Measurement Interval (hh:mm:ss)	02:00:00			
Business Recovery Time (hh:mm:ss)	00:27:30			
Total Number of Transactions Completed in Measurement Interval	57,665,235			