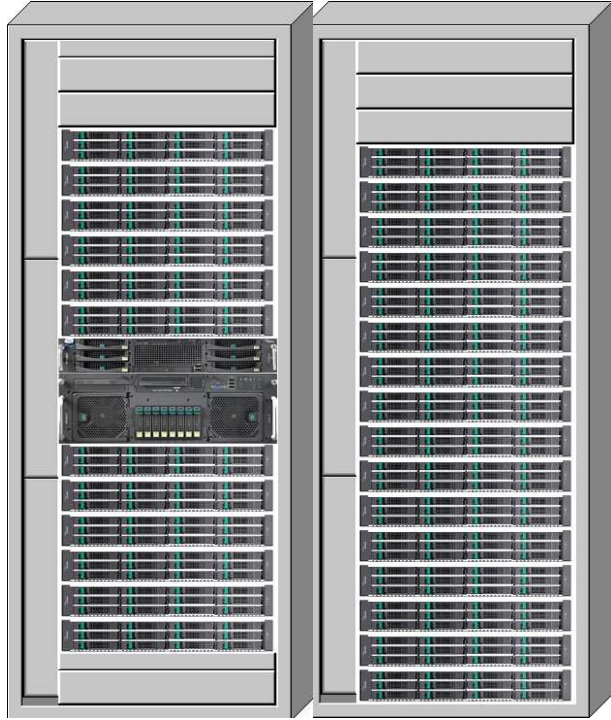
		<b>PRIMERGY RX600 S4</b>		<b>TPC-E 1.5.1</b> <b>TPC Pricing 1.3.0</b>
				Report Date September 5, 2008
TPC-E Throughput <b>721.40 tpsE</b>	Price/Performance <b>\$ 459.71 USD per tpsE</b>	Availability Date <b>January 1, 2009</b>	Total System Cost <b>\$ 331,637</b>	
<b>Database Server Configuration</b>				
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>4/24/24</b>	Memory <b>128 GB</b>	
<b>SUT</b>				
		<b>Tier A</b> PRIMERGY RX300 S4 2x Intel Xeon E5405 2.00 GHz 4 GB Memory 1x 250 GB SATA Drive Onboard 1 Gb/s Dual Port LAN 1 Gb/s		
		<b>Tier B</b> PRIMERGY RX600 S4 4x Intel Xeon X7460 2.66 GHz 128 GB Memory 2x 36 GB 15K SAS Drives 6x 146 GB 10K SAS Drives Onboard SAS RAID Controller 5x SAS RAID Controller		
		<b>Storage</b> 2x PRIMECENTER Rack 28x FibreCat SX40 192x 73 GB 15K SAS Drives 144x 146 GB 15K SAS Drives		
Initial Database Size <b>2,798 GB</b>	Redundancy Level 1 <b>RAID-10</b>		Storage <b>192 x 73 GB15K</b> <b>144 x 146GB 15K</b> <b>6 x 146GB 10K</b>	



# PRIMERGY RX600 S4

**TPC-E 1.5.1  
TPC Pricing 1.3.0**

Report Date  
September 5, 2008

Availability Date  
January 1, 2009

Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3-yr. Maint. Price
<b>Database Server Hardware</b>						
<b>FSCR6S4_S26361-K998-V200_71390-03</b>		1	5,535.20	1	5,535.20	
PY RX600S4	S26361-K998-V200			1		
Memory Board Kit RX600 S4	S26361-F3125-E440			1		
CD-RW/DVD slimline SATA	S26361-F3268-E1			1		
HD SAS 3Gb/s 146GB 10k hot plug 2.5"	S26361-F3208-E114			6		
HD SAS 3Gb/s 36GB 15k hot plug 2.5"	S26361-F3208-E536			2		
Rack installation ex works	SNP:SY-F1647E301-P			1		
RMK-F1_RX600 S4	S26361-F2735-E106			1		
Cable magnt. for 19" DC- PC- Rack	S26361-F2735-E7			1		
Xeon MP X7460 2.67GHz 16MB 1066MHz	S26361-F3487-E460	1	3,871.75	4	15,487.00	
16GB (2x 8GB) FBDIM, 667MHz	S26361-F3263-E625	1	2,371.50	8	18,972.00	
RAID Ctrl SAS 8Port 512M FHLP LSI	S26361-F3890-L501	1	436.05	5	2,180.25	
SCENICVIEW A17-3	S26361-K1146-V150	1	226.10	1	226.10	
KB SLIM MF USA	S26381-K370-V510	1	24.65	1	24.65	
Optical Wheelmouse USB silver	S26381-K355-L400	1	15.30	1	15.30	
PYT3S4 Enhanced +, 24 x 7 Phone Support; 24 x 7, 4-hour On-Site Resp.(Sev-1), Warranty Uplift Maintenance, 36 Months, Prepaid billing	PYR6S4-U004361-0NA	1	1,417.50	1		1,417.50
				<b>Subtotal</b>	42,440.50	1,417.50
<b>Server Storage</b>						
<b>FSC_S26361-K826-V103_71390-01</b>		1	2,362.15	1	2,362.15	
PRIMECENTER Rack 38 U, 1000 deep	S26361-K826-V103			1		
Dummy panel, platics, 1U + assembly	S26361-F2735-E130			2		
Dummy panel, platics, 2U + assembly	S26361-F2735-E131			6		
Socket strip 3phase 3x 8 sockets	S26361-F2262-E31			2		
<b>FSC_S26361-K826-V103_71390-05</b>		1	2,343.45	1	2,343.45	
PRIMECENTER Rack 38 U, 1000 deep	S26361-K826-V103			1		
Dummy panel, platics, 2U + assembly	S26361-F2735-E131			6		
Socket strip 3phase 3x 8 sockets	S26361-F2262-E31			2		
<b>FSC_S26361-K1122-V200_71390-06</b>		1	4,399.60	16	70,393.60	
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_71390-02</b>		1	5,338.00	12	64,056.00	
FibreCAT SX40 SAS Disk Subsystem	S26361-K1122-V200			12		
HD SAS 3Gb/s 164GB 15k hot pl 3.5" SX40	S26361-F3244-E514			144		
Rack installation ex works, SX10, 1U Nod	S26361-F1647-E302			12		
PYSX40 Enhanced +, 24 x 7 Phone Support; 24 x 7, 4-hour On-Site Resp.(Sev-1), Warranty Uplift Maintenance, 36 Months, Prepaid billing	PYSX40-U004361-0NA	1	1,644.30	28		46,040.40
SAS CBL EXT 6m 8088-8470	S26361-F3246-L603	1	107.95	6	647.70	
SAS CBL EXT 2m 8088-8470	S26361-F3246-L203	1	62.90	4	251.60	
SAS cable external 0.5 m	S26361-F3246-L5	1	59.50	18	1,071.00	
				<b>Subtotal</b>	141,125.50	46,040.40



# PRIMERGY RX600 S4

**TPC-E 1.5.1  
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<b>Server Software</b>						
SQL Server 2008 Enterprise x64 Edition Per Processor License	810-07507	2	23,432.00	4	93,728.00	
Windows Server 2008 Enterprise Edition (x64)	P72-03168	2	2,310.00	1	2,310.00	
Microsoft Problem Resolution Services	n/a	2	245.00	1		245.00
				<b>Subtotal</b>	<b>96,038.00</b>	<b>245.00</b>
<b>Tier A Client Hardware</b>						
<b>FSCR3S4_S26361-K1151-V101_71390-04</b>		1	2,304.35	1	2,304.35	
PY RX300S4 6x3.5	S26361-K1151-V101			1		
Xeon DP E5405 2.00 GHz 2x6MB 1333MHz	S26361-F3882-E200			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 2x1Gbit PCIe PRO/1000PT Cu Ip	S26361-F3228-L201	1	143.65	1	143.65	
SCENICVIEW A17-3	S26361-K1146-V150	1	226.10	1	226.10	
KB SLIM MF USA	S26381-K370-V510	1	24.65	1	24.65	
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>	<b>2,714.05</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>283,079.55</b>	<b>48,557.00</b>
<b>Notes:</b>				<b>Three-Year Cost of Ownership USD</b>		<b>\$331,637</b>
Price Source: 1=Fujitsu Computer Systems Corporation, 2=Microsoft Corporation				<b>TPC-E Throughput</b>		<b>721.40</b>
				<b>USD/tpsE</b>		<b>\$459.71</b>

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 these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org). Thank you.



# PRIMERGY RX600 S4

**TPC-E 1.5.1**  
**TPC Rev 1.3.0**

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Numerical Quantities Summary					
<b>Reported Throughput:</b>		<b>721.40 tpsE</b>		<b>Configured Customers:</b>	<b>362,000</b>
Response Times (in seconds)	Minimum	Average	90th%tile	Maximum	
Broker Volume	0.00	0.04	0.07	0.36	
Customer Position	0.00	0.03	0.05	1.65	
Market Feed	0.00	0.03	0.08	1.64	
Market Watch	0.00	0.03	0.06	1.69	
Security Detail	0.00	0.01	0.03	0.53	
Trade Lookup	0.00	0.58	0.77	1.14	
Trade Order	0.00	0.08	0.14	1.76	
Trade Result	0.00	0.08	0.15	1.86	
Trade Status	0.00	0.02	0.04	0.74	
Trade Update	0.01	0.68	0.83	1.13	
Data Maintenance	0.00	0.13	N/A	1.92	
Transaction Mix		Transaction Count		Mix %	
Broker Volume		2,545,135		4.900%	
Customer Position		6,751,914		13.000%	
Market Feed		519,411		1.000%	
Market Watch		9,349,032		18.000%	
Security Detail		7,271,099		13.999%	
Trade Lookup		4,154,710		7.999%	
Trade Order		5,246,026		10.100%	
Trade Result		5,194,100		10.000%	
Trade Status		9,868,349		19.000%	
Trade Update		1,038,663		2.000%	
Data Maintenance		120		N/A	
Test Duration and Timings					
Ramp-up Time (hh:mm:ss)		00:33:18			
Measurement Interval (hh:mm:ss)		02:00:00			
Business Recovery Time (hh:mm:ss)		00:57:13			
Total Number of Transactions Completed in Measurement Interval		51,938,439			