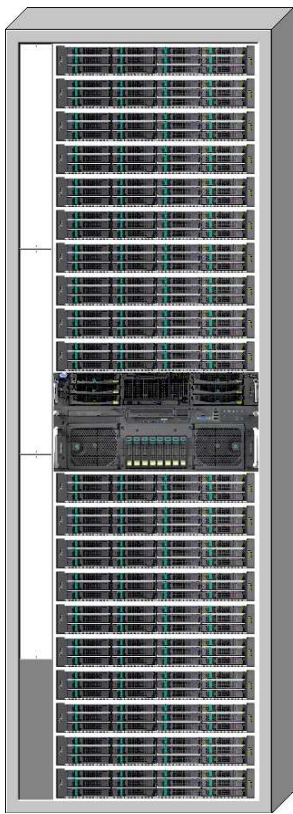
		PRIMERGY RX600 S4		TPC-E 1.5.1 TPC Pricing 1.3.0	
				Report Date September 10, 2008	
TPC-E Throughput 492.34 tpsE	Price/Performance \$ 559.88 USD per tpsE	Availability Date January 1, 2009	Total System Cost \$ 275,649		
Database Server Configuration					
Operating System Microsoft Windows Server 2008 Enterprise x64 Edition	Database Manager Microsoft SQL Server 2008 Enterprise x64 Edition	Processors/Cores/Threads 4/16/16	Memory 128 GB		
SUT					
		<div style="border: 1px solid black; padding: 5px;"> <p>Tier A 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</p> <p>Tier B PRIMERGY RX600 S4 4x Intel Xeon X7350 2.93 GHz 128 GB Memory 2x 36 GB 15K SAS Drives 6x 146 GB 10K SAS Drives Onboard SAS RAID Controller 4x SAS RAID Controller</p> <p>Storage 1x PRIMECENTER Rack 20x FibreCat SX40 120x 73 GB 15K SAS Drives 120x 146 GB 15K SAS Drives</p> </div>			
		<div style="border: 1px solid black; padding: 5px;"> 2 Driver Systems </div>			
Initial Database Size 1,928 GB	Redundancy Level 1 RAID-10		Storage 120 x 73 GB15K 120 x 146GB 15K 6 x 146GB 10K		



PRIMERGY RX600 S4

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Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3-yr. Maint. Price
Database Server Hardware						
FSCR6S4_S26361-K998-V200_72062-04						
PY RX600S4	S26361-K998-V200		18,516.40	1	18,516.40	
Xeon MP X7350 2.93GHz 2x4MB 1066MHz	S26361-F3487-E350			4		
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		
16GB (2x 8GB) FBDIM, 667MHz	S26361-F3263-E625	1	2,371.50	8	18,972.00	
RAID Ctrl SAS 8Port 512M FH/LP LSI	S26361-F3890-L501	1	436.05	4	1,744.20	
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	
PYRX600 S4 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-ONA	1	1,417.50	1		1,417.50
				Subtotal	39,498.65	1,417.50
Server Storage						
FSC_S26361-K826-V104_72062-01						
PRIMECENTER Rack 46 U, 1000 deep	S26361-K826-V104	1	2,460.75	1	2,460.75	
Dummy panel, platics, 2U + assembly	S26361-F2735-E131			3		
Socket strip 3phase 3x 8 sockets	S26361-F2262-E31			2		
FSCSX40_S26361-K1122-V200_72062-02						
FibreCAT SX40 SAS Disk Subsystem	S26361-K1122-V200	1	4,399.60	10	43,996.00	
HD SAS 3Gb/s 73GB 15k hot pl 3.5" SX40	S26361-F3244-E573			120		
Rack installation ex works, SX10, 1U Nod	S26361-F1647-E302			10		
FSCSX40_S26361-K1122-V200_72062-03						
FibreCAT SX40 SAS Disk Subsystem	S26361-K1122-V200	1	5,338.00	10	53,380.00	
HD SAS 3Gb/s 164GB 15k hot pl 3.5" SX40	S26361-F3244-E514			120		
Rack installation ex works, SX10, 1U Nod	S26361-F1647-E302			10		
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-ONA	1	1,644.30	20		32,886.00
SAS CBL EXT 6m 8088-8470	S26361-F3246-L603	1	107.95	4	431.80	
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	12	714.00	
				Subtotal	101,234.15	32,886.00



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Server Software						
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
				Subtotal	96,038.00	245.00
Tier A Client Hardware						
FSCR3S4_S26361-K1151-V101_72062-05		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
				Subtotal	2,714.05	854.10
Tier A Client Software						
Windows Server 2003 R2 Standard x64 Edition	P73-01664	2	719.00	1	719.00	
Infrastructure or Connectivity						
LAN_crossover-Cat 5e, l=5m	S26361-F3482-L5	1	21.25	2	42.50	
				Total	240,246.35	35,402.60
Notes:				Three-Year Cost of Ownership USD	\$275,649	
Price Source: 1=Fujitsu Computer Systems Corporation, 2=Microsoft Corporation				TPC-E Throughput	492.34	
				USD/tpsE	\$559.88	

The benchmark results and test methodology were audited by Francois Raab of InfoSizing Inc. (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. Thank you.



PRIMERGY RX600 S4

TPC-E 1.5.1
TPC Rev 1.3.0

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Numerical Quantities Summary

Reported Throughput:		492.34 tpsE		Configured Customers:		250,000	
Response Times (in seconds)		Minimum	Average	90th%tile	Maximum		
Broker Volume		0.00	0.04	0.07	0.38		
Customer Position		0.00	0.03	0.05	0.29		
Market Feed		0.00	0.03	0.07	0.48		
Market Watch		0.00	0.03	0.05	0.58		
Security Detail		0.00	0.01	0.03	0.37		
Trade Lookup		0.00	0.52	0.72	1.28		
Trade Order		0.00	0.09	0.14	0.56		
Trade Result		0.00	0.09	0.15	0.56		
Trade Status		0.00	0.02	0.04	0.42		
Trade Update		0.02	0.62	0.77	1.14		
Data Maintenance		0.00	0.07	N/A	0.52		
Transaction Mix			Transaction Count		Mix %		
Broker Volume			1,736,548		4.900%		
Customer Position			4,607,332		13.000%		
Market Feed			354,494		1.000%		
Market Watch			6,379,405		18.000%		
Security Detail			4,961,609		13.999%		
Trade Lookup			2,835,098		7.999%		
Trade Order			3,579,685		10.100%		
Trade Result			3,544,902		10.002%		
Trade Status			6,733,804		19.000%		
Trade Update			708,768		2.000%		
Data Maintenance			120		N/A		
Test Duration and Timings							
Ramp-up Time (hh:mm:ss)				00:33:11			
Measurement Interval (hh:mm:ss)				02:00:00			
Business Recovery Time (hh:mm:ss)				00:45:00			
Total Number of Transactions Completed in Measurement Interval				35,441,645			