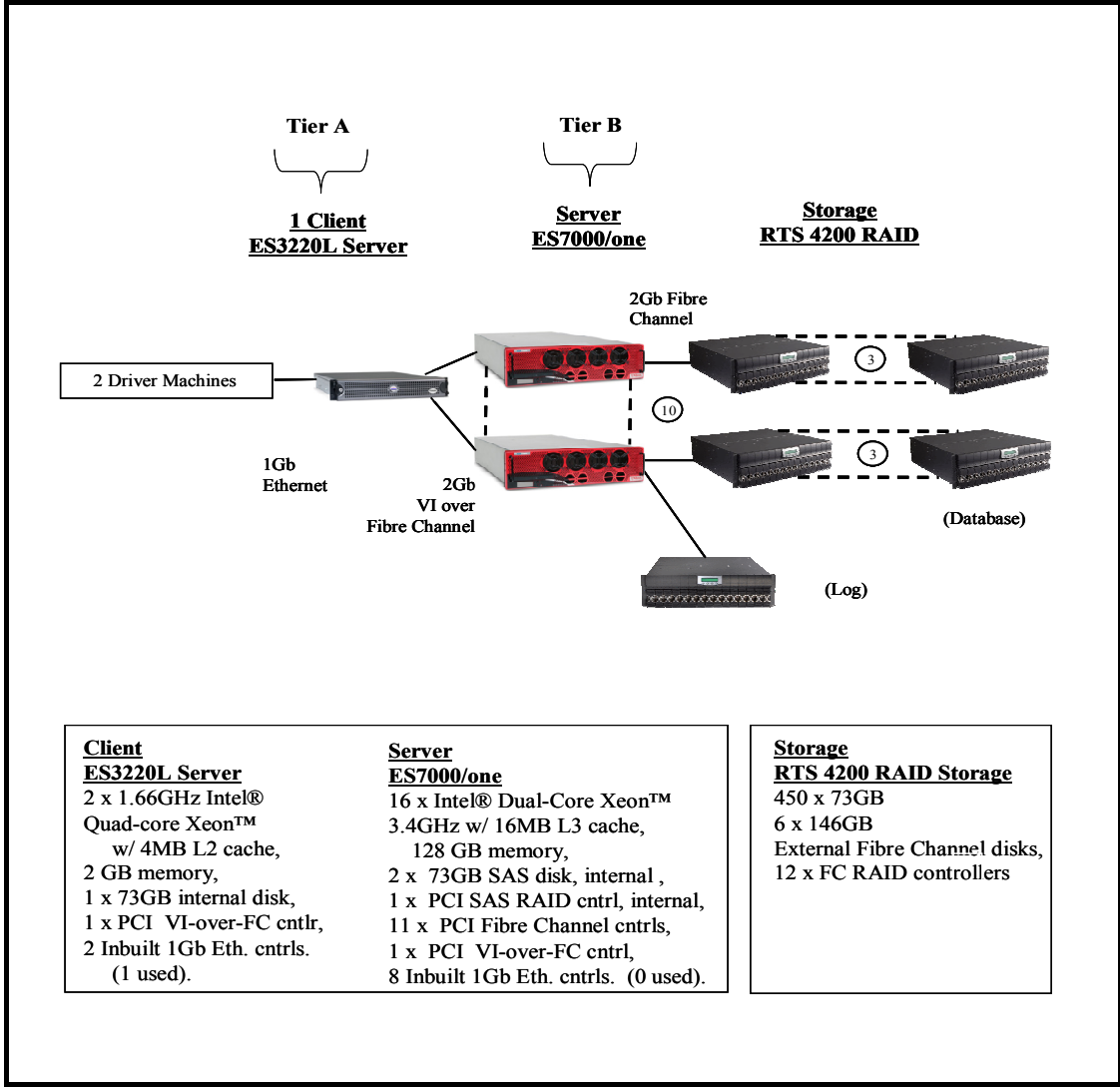


UNISYS	ES7000/one Enterprise (16s)		TPC-E 1.1.0 TPC Pricing 1.2
			Report Date July 11, 2007
TPC-E Throughput	Price/Performance	Availability Date	Total System Cost
660.85 tpsE	\$1,777.18 USD per tpsE	September 28, 2007	\$1,174,446 USD

Database Server Configuration			
Operating System	Database Manager	Processors/Cores/ Threads	Memory
Microsoft Windows Server 2003 R2 Datacenter Edition	Microsoft SQL Server 2005 Enterprise Edition (64-bit)	16/32/64	128GB



Client ES3220L Server 2 x 1.66GHz Intel® Quad-core Xeon™ w/ 4MB L2 cache, 2 GB memory, 1 x 73GB internal disk, 1 x PCI VI-over-FC cntlr, 2 Inbuilt 1Gb Eth. cntrls. (1 used).	Server ES7000/one 16 x Intel® Dual-Core Xeon™ 3.4GHz w/ 16MB L3 cache, 128 GB memory, 2 x 73GB SAS disk, internal , 1 x PCI SAS RAID cntlr, internal, 11 x PCI Fibre Channel cntrls, 1 x PCI VI-over-FC cntlr, 8 Inbuilt 1Gb Eth. cntrls. (0 used).	Storage RTS 4200 RAID Storage 450 x 73GB 6 x 146GB External Fibre Channel disks, 12 x FC RAID controllers
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Initial Database Size	Redundancy Level: 1	Database Storage
2,753 GB	RAID-10	450 x 73GB 15K rpm 6 x 146GB 15K rpm

UNISYS	ES7000/one Enterprise (16s)				TPC-E 1.1.0 TPC Pricing 1.2	
					Report Date July 11, 2007 Revision Date	
	Description	Part Number	Price Source	Unit Price	Qty.	Extended Price
Server Hardware:						
ES7000/one 16 Socket ,16 GB Memory	ES7111166-100	1	\$147,250	1	\$147,250	\$13,680
40U Rack with top and rear door	RCK4019421-FSS	1	\$2,470	1	\$2,470	
40U Rack front door	RCK4019421-FDR	1	\$1,283	1	\$1,283	
4 Outlet PDU	PWR4201-220	1	\$189	4	\$756	
2 x 72 GB LSI Boot Drive	FAC7100722-IDK	1	\$1,853	1	\$1,853	
Initial Memory Style (4 GB)	FAC7102202-ICA	1	\$2,280	4	\$9,120	
32 GB Memory Expansion	FAC7116202-32G	1	\$11,552	3	\$34,656	
Disk HBA	FC76222-P64	1	\$2,850	11	\$31,350	
PCI VI-over-FC controller (Dual Port)	FCH752323-PCX	1	\$2,138	1	\$2,138	
	Subtotal				\$230,876	\$13,680
Server Software:						
Windows 2003 Srvr, DC x64 Edtn, 16P, 1yr Lsub.	WNX6416-TSP	1	\$35,112	1	\$35,112	
Windows 2003 Server, DC Lmtd Sbscrptn, 1yr.	DUS200316-TSP	1	\$3,173	2	\$6,346	
Microsoft SQL Server 2005 Enterprise x64 Edtn.	810-03134	2	\$23,432	16	\$374,912	
SRVC: Microsoft Problem Resolution Services **		2		1		\$245
	Subtotal				\$416,370	\$245
Storage Hardware:						
Basic Enclosure - 20 Pack	RTS412880-P20	1	\$139,109	1	\$139,109	
RAID Controller 1x1	RTS422880-1X1	1	\$13,544	2	\$27,088	
RAID Controller 1x1 - 10 Pack	RTS42288011-P10	1	\$90,828	1	\$90,828	
Cable to Daisy Chain Enclosures (1 Meter) - 20 Pac	RTS400650-P20	1	\$1,776	1	\$1,776	
Optical Transceiver	RTS400150-SFP	1	\$203	2	\$406	
Optical Transceiver -50 Pack	RTS400150-P50	1	\$5,878	1	\$5,878	
Battery Backup for RAID Controllers	RTS420020-BAT	1	\$542	1	\$542	
SAN Manager Software	RTS44101-SAN	1	\$4,334	1	\$4,334	
UPS for Log Disk	RTS412120-UPS	1	\$2,438	1	\$2,438	
AC Power Cord	RTS400740-CBL	1	\$13	64	\$832	
Rack Mount Kit for Enclosures -20 Pack	RTS400012-P20	1	\$7,915	1	\$7,915	
15 Drive Sled of 73 GB Disk - 30 Pack	RTS4307315-P30	1	\$333,210	1	\$333,210	
146 GB Disk Drive	RTS4314615-4F	1	\$1,571	6	\$9,426	
CAB: 36U x 19" x 41" Open Front Cabinet	HRT361941-OFT	1	\$1,425	4	\$5,700	
Power Strip (8 Outlet)	SFR9-PWR	1	\$162	12	\$1,944	
Power Cord	USE1936-LC6	1	\$86	12	\$1,032	
	Subtotal				\$632,458	
Infrastructure						
SWTCH: KVM 16-Port PS/2-Cat5	KVM9163101-SWC	1	\$1,805	1	\$1,805	
I/F: Monitor, 17-inch LCD, Kybrd, Mouse & Cable	ES70004-UIF	1	\$618	1	\$618	
Netgear 16 Port Switch	FS116	4	\$61	3	\$183	
FC Cable -20 Meter	GCFAZLLM20-M	3	\$35	14	\$486	
Ethernet Cable to Switch -25'	GCP0888925-BK	3	\$4	12	\$48	
	Subtotal				\$3,140	
Client Hardware:						
ES3220L 1.66Ghz Clovertown Single Proc Server	ESL3220401-16L	1	\$2,313	1	\$2,313	\$507
Brand Kit	ESL322001-UNI	1	\$26	1	\$26	
Bezel	ESL32201-BZL	1	\$26	1	\$26	
Processor Upgrade to Dual Proc System	CPL3220412-16L	1	\$1,063	1	\$1,063	
PCI-X Riser Card	PWA322001-PCX	1	\$53	1	\$53	
CD-ROM Drive	CDR3220650-INT	1	\$40	1	\$40	
Cable for CD-ROM Drive	CBL322001-CD	1	\$26	1	\$26	
73 GB Disk Drive	HDP73115-SAS	1	\$398	1	\$398	
2 GB Memory	DIM3220041-2GB	1	\$808	1	\$808	
SAS Controller	SAL322001-S51	1	\$91	1	\$91	
PCI VI-over-FC controller (Dual Port)	FCH752323-PCX	1	\$2,138	1	\$2,138	
Adapter Cable to KVM Switch	KVM9002301-CNV	1	\$238	1	\$238	
Power Supply	RPUI6120-DA	1	\$120	1	\$120	
	Subtotal				\$7,340	\$507
Client Software:						
O/S: Windows Server 2003, Standard Edition	P73-01972	2	\$719	1	\$719	
	Subtotal				\$719	\$0
Computer Resolutions Inc. 14% Volume Cash Discount (Ext.Price where Price Source =1)					\$130,889	
	Total USD				\$1,160,014	\$14,432
Benchmark results and test methodology audited by Lorna Livingtree of Performance Metrics, Inc.						
Notes:				3-Year Cost of Ownership: \$1,174,446 USD		
1. * 10% or minimum 2 spares are added in place of onsite service.				TPC-E Throughput: 660.85 tpsE		
2. HW & SW maintenance at 24 x 7 w/ 4 hr. max. response time for spares.				Price/Performance: \$1,777.18 USD		
3. Price Source: 1 = CRI Product Price, Unisys Maintenance Price 2 = Microsoft 3 = GoCables 4 = NewEgg						
Benchmark results and test methodology audited by Lorna Livingtree of Performance Metrics, Inc.						
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 assumption 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 benchmarks 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.						

UNISYS	ES7000/one Enterprise (16s)			TPC-E 1.1.0	
				Report Date July 11, 2007	
Numerical Quantities Summary					
Reported Throughput:				660.85	
Configured Customers:				350,000	
Response Time (in seconds)	Minimum	Average	90th %tile	Maximum	
Broker-Volume	0.01	0.12	0.21	0.58	
Customer-Position	0.00	0.02	0.05	3.27	
Market-Feed	0.00	0.07	0.15	3.31	
Market-Watch	0.00	0.08	0.20	1.55	
Security-Detail	0.00	0.02	0.03	3.26	
Trade-Lookup	0.00	0.63	0.83	3.76	
Trade-Order	0.01	0.07	0.11	2.48	
Trade-Result	0.00	0.11	0.18	2.42	
Trade-Status	0.01	0.04	0.06	2.27	
Trade-Update	0.03	0.75	0.91	3.59	
Data-Maintenance	0.01	0.11	N/A	0.43	
Transaction Mix (in percent of total transactions)			Transaction Count		Mix
Broker_Volume			2,331,286		4.900%
Customer-Position			6,185,564		13.000%
Market-Feed			475,819		1.000%
Market-Watch			8,564,647		18.000%
Security-Detail			6,661,282		14.000%
Trade-Lookup			3,806,391		8.000%
Trade-Order			4,805,933		10.100%
Trade-Result			4,758,179		10.000%
Trade-Status			9,040,612		19.000%
Trade-Update			951,663		2.000%
Data-Maintenance			120		N/A
Test Duration and Timing					
Ramp-up Time (hh:mm:ss)			0:24:00		
Measurement Interval (hh:mm:ss)			2:00:00		
Business Recovery Time (hh:mm:ss)			1:14:20		
Total Number of Transactions Completed in Measurement Interval			47,581,376		