


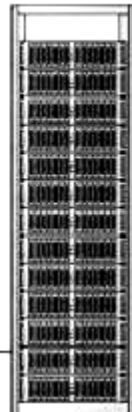
	Inspur NF520D2 Microsoft SQL Server 2008		TPC-E Revision 1.5.1 TPC Pricing 1.3.0
			Report Date: September 26, 2008
TPC-E Throughput 695.24 tpsE	Price/Performance ¥ 4844.22 CNY per tpsE	Availability Date November 30, 2008	Total System Cost 3,367,891 CNY
Database Server Configuration			
Operating System Microsoft Windows Server 2008 Enterprise x64 Edition	Database Manager Microsoft SQL Server 2008 Enterprise x64 Edition	Processors/Cores/ Threads 4/24/24	Memory 128GB
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Tier A client</p> <p>2 x Inspur NF280D Each contains : 2 x Intel Xeon E5410 Processor 2.33GHz (1 Processor , 4cores , 4 Theads) 4GB of Memory 2 x 73GB SAS Drive (raid-1 for OS , Onboard RAID Controller , Onboard Dual-Port Gigabit Ethernet Controller)</p> </div> <div style="text-align: center;">  <p>Cisco Switch</p> </div> <div style="text-align: center;">  <p>Tier B Server</p> <p>Inspur NF520D2 4 x Intel X7460 Processor 2.67GHz (1 Processor , 6cores,6 Theads) 128GB of Memory 2 x 73GB SAS Drive (raid-1 for OS , Onboard RAID Controller , Onboard Dual-Port Gigabit Ethernet Controller) , 4 x LSI8888ELP SAS HBA</p> </div> <div style="text-align: center;">  <p>Storage</p> <p>29 x Adaptec SANbloc S50 JBOD each contains: 12 x 73GB/146GB 15k rpm SAS driver (Total of 348 Drives Arrayed as: 1 x 12-Disk(146GB) RAID-1, 28 x 12-Disk(73GB) RAID-5)</p> </div> </div> <p style="text-align: center;">Ethernet Cables</p> <p style="text-align: center;">sas Cables</p>			
Initial Database Size 3,194 GB	Redundancy Level: 1 RAID-10 Log + RAID-5 Data	Storage 336 x 73 GB 15K 12 x 146 GB 15K	



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Description	Part Number	Price Source	Unit Price	Qty	Extended Price	3 yr.Maint. Price
Server Hardware						
Inspur NF520D2 (4 x Intel X7460 Processor(2.67GHz), 128GB memory (32 x 4GB), Integrated RAID Controller, Onboard Dual-Port Gigabit Ethernet Controller, 2 x 73GB SAS driver, 1x USB mouse, USB keyboard, LCD monitor) plus ServicePac for 3-year 24 x 7 suport	SNF5202DR111	1*	331,003	1	331,003	
LSI Logic MegaRAID 8888ELP, Dual-Port	SUN117	1	7,600	4	30,400	
mSASx4 to SASx4 4m external Cable (2 spares)	SUN404	1	300	10	3,000	
				Subtotal	¥ 364,403	
Server Storage						
Adaptec SANbloc s50 JBOD (including Rack) plus ServicePac for 3-year 24 x 7 suport	AS50JPR	1	50,920	29	1,476,680	
APC UPS SU3000UXICH	SUN718	1	3,900	4	15,600	
73GB SAS drive (including 10% spare)	BSA006	1	1,860	370	688,200	
146GB SAS drive (including 10% spare)	BSA007	1	2,304	14	32,256	
				Subtotal	¥ 2,212,736	
Server Software						
SQL Server 2008 Enterprise x64 Edition	BGL108	1	160,978	4	643,912	
Windows Server 2008 Enterprise x64 server	BGL109	1	15,870	1	15,870	
Microsoft Problem Resolution Services	BGL110	1	1,683	1	1,683	
				Subtotal	¥ 661,465	
Client Hardware						
Inspur NF280D (2 x Intel Xeon E5410 (2.33GHz), 4GB memory (2 x 2GB),2 x 73GB SAS driver) Integrated RAID Controller, Onboard Dual-Port Gigabit Ethernet Controller, plus ServicePac for 3-year 24 x 7 suport	SNF2805PR734	1	26,740	2	53,480	
				Subtotal	¥ 53,480	
Client Software						
Windows Server 2008 Standard x64 Edition	BGL111	1	4,885	2	9,770	
				Subtotal	¥ 9,770	
Infrastructure						
Cisco Switch 4948	AS60EPR	1	65,967	1	65,967	
Ethernet Cables (2 spares)	SUN407	1	10	7	70	
				Subtotal	¥ 66,037	
				Total	¥ 3,367,891	
Note: * This component is not immediately orderable. See the FDR for more information. Price Source: 1=Inspur Order method: 86-800-860-6708 or 86-531-85105430				Three-Year Cost of Ownership CNY: ¥ 3,367,891 TPC-E Throughput: 695.24 tpsE ¥ CNY/tpsE: ¥ 4844.22		
Audited by Lorna Livingtree,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 permitted. Special prices based on assumptions about past or future purchase are not permitted. All discounts reflect standard pricing policies for the list components. For complete details, see the pricing sections of the TPC benchmark specifications. If you find that the stated prices are not available according to these items, please inform the TPC at pricing@tpc.org						



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Reported Throughput: 695.24 tpsE		Configured Customers: 360,000		
Response Time (in seconds)	Minimum	Average	90 th %-tile	Maximum
Broker Volume	0.00	0.08	0.23	0.66
Customer Position	0.00	0.02	0.05	0.93
Market Feed	0.00	0.04	0.10	0.61
Market Watch	0.00	0.03	0.06	1.18
Security Detail	0.00	0.01	0.03	0.71
Trade Lookup	0.00	0.76	1.04	1.75
Trade Order	0.00	0.08	0.14	1.06
Trade Result	0.00	0.08	0.15	5.91
Trade Status	0.00	0.02	0.05	0.97
Trade Update	0.03	0.90	1.12	1.83
Data Maintenance	0.01	0.16	N/A	1.30
Transaction Mix		Transaction count		Mix%
Broker Volume	2,453,182		4.900	
Customer Position	6,508,628		13.001	
Market Feed	500,582		1.000	
Market Watch	9,011,789		18.000	
Security Detail	7,009,387		14.001	
Trade Lookup	4,004,773		7.999	
Trade Order	5,056,494		10.100	
Trade Result	5,005,777		9.999	
Trade Status	9,512,405		19.000	
Trade Update	1,001,211		2.000	
Data Maintenance	120		N/A	
Test Duration and Timings				
Ramp-up Time			0:46:00	
Measurement Interval			2:00:00	
Business Recovery Time			00:53:42	
Total Number of Transactions Completed in Measurement Interval			50,064,228	