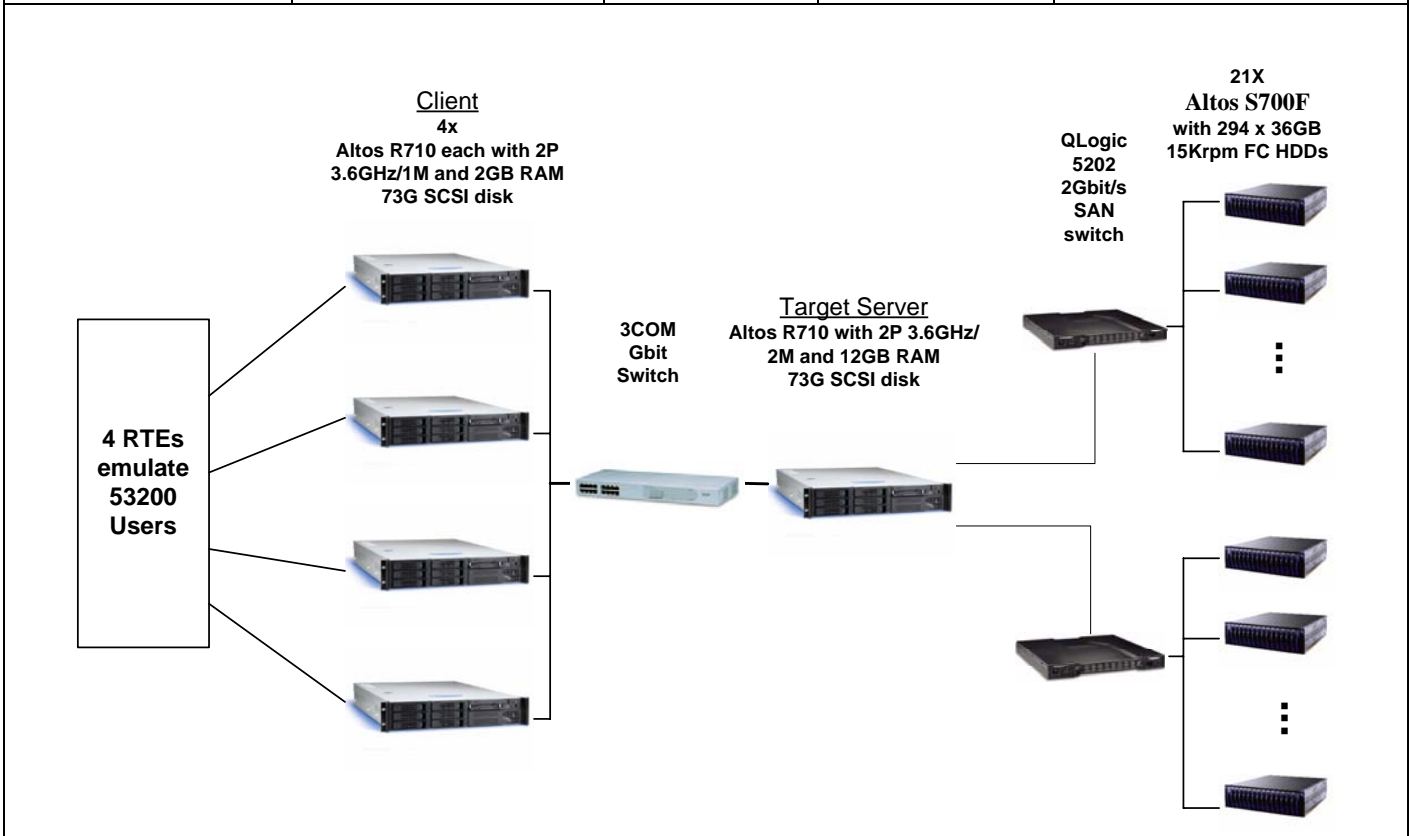



	Altos R710 C/S with 4 Altos R710	TPC-C Rev. 5.5 Report Date: Jan 15, 2006
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Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
826,507.55 AUD	66,543	12.42 AUD/tpmC	2005-12-1

Processors	Database Manager	Operating System	Other Software	Number of Users
2 x Intel® Xeon® processor 3.6GHz (2MB L2 Cache) - Server 2 * Xeon 3.6 GHz (1MB L2 Cache) - Clients	Microsoft SQL Server 2000, Enterprise Edition SP3	Microsoft Windows Server 2003, Enterprise Edition	Microsoft Windows 2000 Server Microsoft Visual C++ Microsoft COM+	53200



System Components	Qty	Server	Qty	Each client
Processors/Cores/Threads	2/2/4	Intel® Xeon® Processor 3.6GHz 2MB L2 Cache	2/2/4	Intel® Xeon® Processor 3.6GHz 1MB L2 Cache
Memory	6	2GB DDR2 400	2	1GB DDR2 400
Disk Controllers	2	QLogic QLA2340		
Disk Drives	1	73GB 10Krpm SCSI	1	73GB 10Krpm SCSI
	294	36GB 15Krpm FC		
Total Storage		10049.54GB		73GB
Others				

	Altos R710 Client/Server			TPC-C Rev 5.5		
				Report Date: 15-Jan-2006		
Description	Part Number	Third Party	Unit Price AUD	Qty	Extended	3 yr. Maint.
					Price AUD	Price AUD
Server Hardware						
Acer Altos R710 Rack Optimised Server, 2 x Xeon 3.6 GHz w/2MB L2 cache, 12 GB DDR2-400 RAM (6 x 2GB), 73GB HDD 10K RPM, keyboard, mouse	R7.10128.730IE-W11	Acer	23,729.20	1	23729.20	2600.00
Acer AF715 17" UVGA CRT monitor (w/o speaker brackets)	EU.F0108.005	Acer	230.00	1	230.00	
APC Smart UPS 1500 rackmount	SUA1500RM12U	APC	2,050.00	1	2050.00	839.97
					Subtotal	26009.20
						3439.97
3rd Party FC HBA						
Qlogic QL2340 fibre channel host bus adapter	QLA2340-CK	QLogic	1,806.00	2	3612.00	520.00
					Subtotal	3612.00
						520.00
Storage Subsystem						
Acer Altos S700F Single-RAID storage subsystem w/128MB cache, BBU, dual PSMs with dual AC inputs	AS.S7001.005	Acer	15,650.00	20	313000.00	
Acer Altos S700F Dual-RAID storage subsystem w/256MB cache, BBU, dual PSMs with dual AC inputs	AS.S7001.006	Acer	25,724.00	1	25724.00	
10 Meter 2Gb Fibre Channel Optical Cable, Multi Mode, LC to LC	CA.S7002.006	Acer	160.00	23	3680.00	
36 GB 15,000 rpm Fibre Channel Drive in Carrier (Seagate Cheatah X15)	TC.R1304.003	Acer	653.00	294	191982.00	
19" 42U APC NetShelter VX 42U Enclosure w/Sides Black	AR2100BLK	APC	3,200.00	3	9600.00	960.00
10% spare 36 GB 15,000 rpm Fibre Channel Drive	TC.R1304.003	Acer	653.00	30	19590.00	
10% spare Altos S700F Single-RAID storage subsystem	AS.S7001.005	Acer	15,650.00	4	62600.00	
					Subtotal	626176.00
						960.00
Server Software						
Microsoft SQL Server 2000 Enterprise Edition (per processor)	810-00963	Microsoft	34,843.00	2	69686.00	
Microsoft Windows Server 2003, Enterprise Edition (32-bit)	P72-00264	Microsoft	6,799.00	1	6799.00	
Professional Support (1 Incident)		Microsoft	350.00	1		350.00
					Subtotal	76485.00
						350.00
Client Hardware						
Acer Altos R710 Rack Optimised Server, 2 x Xeon 3.6 GHz w/1MB L2 cache, 2 GB DDR2-400 RAM (2 x 1GB), 73GB HDD 10K RPM, keyboard, mouse	R7.10128.740IE-W11	Acer	8,520.60	4	34082.40	3500.00
Acer AF715 17" UVGA CRT monitor (w/o speaker brackets)	EU.F0108.005	Acer	230.00	4	920.00	
					Subtotal	35002.40
						3500.00
Client Software						
Microsoft Windows 2000 Server	MSP73-01071	Microsoft	1,318.00	4	5272.00	
Visual C++ .Net Standard	MSVC-00257	Microsoft	187.00	1	187.00	
					Subtotal	5459.00
						0.00
Connectivity						
3COM SuperStack 3 Switch 4400 PWR 24P	3C17205	3Com	3,666.66	1	3666.66	
3COM SuperStack 3 Switch 4400 PWR 24P (spare)	3C17205	3Com	3,666.66	2	7333.32	
Qlogic SANbox 5202 2Gb FC Switch	SB5202-16A	Qlogic	10,618.00	2	21236.00	8310.00
Finisar 2Gb Short-wave SFP	SW.00204.001	Acer	176.00	23	4048.00	400.00
					Subtotal	36283.98
						8710.00
					Total	809027.58
						17479.97
Pricing key: 1. Acer, 2. http://www.apc.com 3. http://www.acapacific.com.au 4. http://www.ingrammico.com.au			Three-Year Cost of Ownership		AUD 826,507.55	
Audited by Lorna Livingtree of Performance Metrics Inc.			tpmC Rating		66,543	
			Cost/tpmC		AUD 12.42	
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 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 .						

Numerical Quantities Summary			
MQTh, Computed Maximum Qualified Throughput: 66,543 tpmC			
Response Times(in seconds)	90th Percentile	Average	Maximum
New-Order	0.56	0.35	5.26
Payment	0.48	0.28	5.06
Delivery	0.11	0.10	0.61
Stock Level	1.63	1.27	5.03
Order Status	0.51	0.30	5.31
Delivery (Deferred)	0.39	0.24	1.92
Menu	0.11	0.10	0.61
Response Time Delay Added for Emulated Components: (sec)			menu 0.1 Resp 0.1
Transaction Mix (in percent of total transactions)			Percent
New-Order			44.74%
Payment			43.07%
Delivery			4.04%
Stock Level			4.08%
Order Status			4.07%
Keying/Think Times(in seconds)	Minimum	Average	Maximum
New-Order	18.01/0.00	18.03/12.05	18.55/120.76
Payment	3.00/0.00	3.02/12.05	3.53/120.78
Delivery	2.00/0.00	2.02/5.06	2.53/50.51
Stock Level	2.00/0.00	2.02/5.05	2.53/50.50
Order Status	2.00/0.00	2.02/10.06	2.53/100.51
Test Duration			
Ramp-up time			45minutes
Measurement interval			120minutes
Number of checkpoints			4
Checkpoint interval			29min30sec
Number of transactions (all types) completed in measurement interval			18,571,280