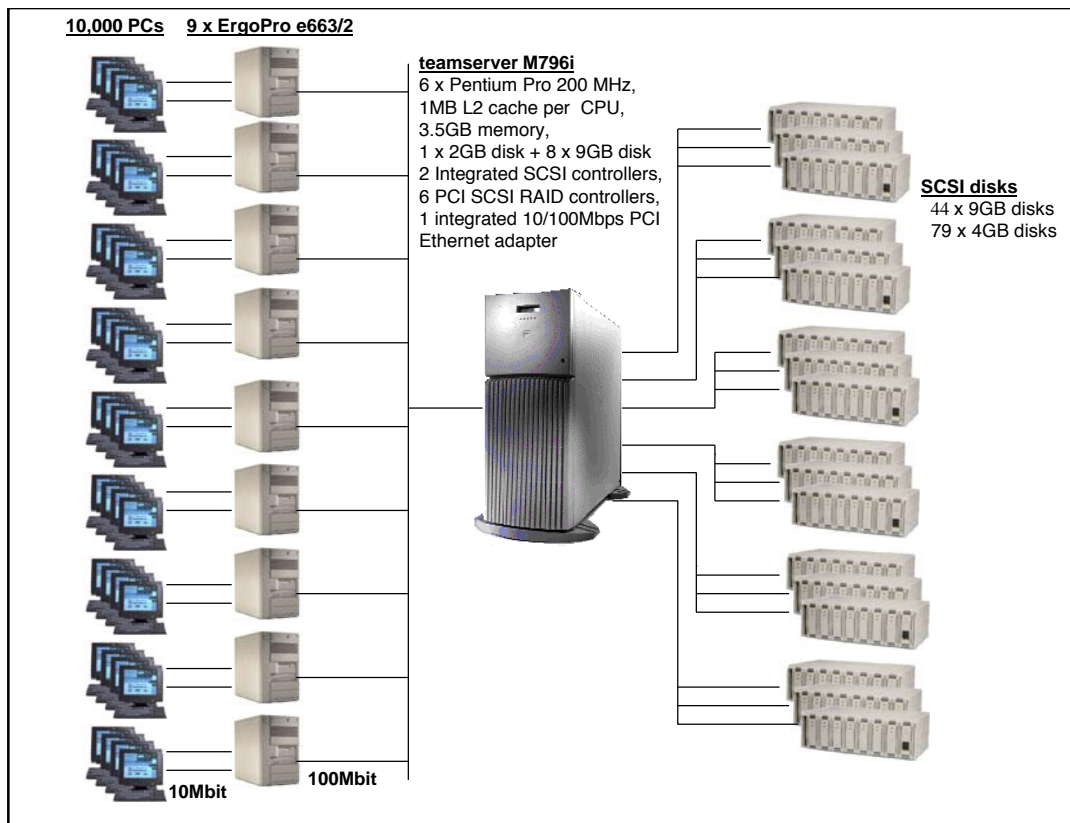


teamserver M796i

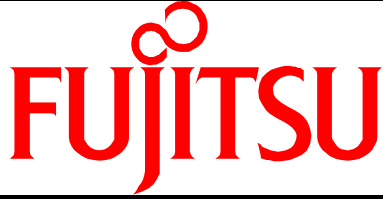
C/S

TPC-C Rev 3.3
Report Date:
1st December
1997

Total System Cost		TPC-C Throughput		Price/Performance		Availability Date	
\$600,703		12,252.83 tpmC		\$49.03/tpmC		22 May 1998	
Processors		Database Manager		Operating System		Other Software	
6 x 200MHz Pentium®Pro 1MB L2 cache		Microsoft SQL Server 6.5 Enterprise Edition		Microsoft Windows NT Server 4.0 Enterprise Edition		Microsoft IIS 3.0 BEA Tuxedo 6.3 CFS	
Number of Users							
10,000							



System Component	Server		Each Client (9 total)	
	Quantity	Description	Quantity	Description
Processors	6	200 MHz Pentium Pro	1	233 Mhz Pentium II
Cache Memory		1MB L2		512KB L2
Memory	1	3584MB	1	128MB
Disk Controller	6	3-channel Mylex DAC960PJ	1	Integrated IDE
	2	Integrated Adaptec 7880		
Disk Drives	1	2 GB Fujitsu	1	2GB IDE Drive
	79	4 GB Fujitsu		
	52	9 GB Fujitsu		



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C/S

TPC-C Rev 3.3
Report Date:
1st December 1997

Description	Part Number	Supplier	Unit Price	Qty	Extended Price	5 yr. Maint. Price
Server Hardware		Brand	Price/Maint			
teamserver M796i 6xPentium Pro 200MHz/1024KB 0GB OMB	SV642073	Fujitsu	1/5 47500	1	47500	16581
Memory Board	SV642014	Fujitsu	1/5 360	1	360	126
512MB ECC RAM Upgrade	SV642015	Fujitsu	1/5 6995	7	48965	14081
Mylex DAC960PJ 3 channel RAID controller	SV521018	Mylex	1/5 2500	6	15000	5097
Disk Shelf Kit	SV642052	Fujitsu	1/5 1125	18	20250	965
3m VHD to VHD SCSI Cable	SV642055	Fujitsu	1/5 155	18	2790	310
2GB 7200 1" SCA DISK	SV642022	Fujitsu	1/5 785	1	785	275
9GB 7200 1.6" SCA DISK	SV642024	Fujitsu	1/5 1585	8	12680	5284
9GB 7200 1.6" SCA DISK EXP	SV642032	Fujitsu	1/5 1585	44	69740	10916
4GB 7200 1" SCA DISK EXP	SV642031	Fujitsu	1/5 970	79	76630	12305
4GB Internal DDS-2 DAT Drive	SV520009	Fujitsu	1/5 1140	1	1140	399
ErgoPro e142 Colour Monitor	PD42E193	Fujitsu	1/5 268	1	268	94
ErgoPro e105 keyboard (US-104)	PK040657	Fujitsu	1/5 45	1	45	18
Mouse Kit	PK080130	Fujitsu	1/5 27	1	27	0
Power Lead (USA)	57495004	Fujitsu	1/5 30	1	30	30
				Subtotal	296210	66481
Server Software						
Microsoft Windows NT Server v 4.0 Enterprise Edition (inc 25 CAL)		Microsoft	2/2 3,999	1	3999	0
Microsoft SQL Server 6.5 Enterprise Edition unlimited user licence		Microsoft	2/2 28,999	1	28999	0
Microsoft Software Maintenance		Microsoft	2/2 10,475	1	0	10475
				Subtotal	32998	10475
Client Hardware						
ErgoPro e663/233	UID64ASE3001	Fujitsu	1/5 2129	9	19161	7664
64MB EDO Memory Module	PL060152	Fujitsu	1/5 548	18	9864	2959
Ether Express PRO/100B	DSSW6005	Fujitsu	1/5 104	27	2808	758
ErgoPro e142 Colour Monitor	PD42E193	Fujitsu	1/5 268	9	2412	820
ErgoPro e105 keyboard (US-104)	PK040657	Fujitsu	1/5 45	9	405	162
Fujitsu Mouse Kit	PK080130	Fujitsu	1/5 27	9	243	0
				Subtotal	34650	12363
Client Software						
Microsoft Windows NT Server v. 4.0		Microsoft	2/2 809	9	7281	0
Microsoft SQL Server Workstation (includes prog. toolkit)		Microsoft	2/2 499	1	499	0
Microsoft Visual C++ 32 bit edition (subscription)		Microsoft	2/2 499	1	499	0
Tuxedo 6.3 Client Threads for NT4.0		BEA	3/3 3000	9	27000	20250
				Subtotal	35279	20250
User Connectivity						
Allied Telesyn 24 Port 10BaseT Hub (including 10% spares)	AT3024TR-15	Allied Telesyn	4/- 216	466	100656	spared
3-Com SSII 12 Port 100 TX Hub (including 2 spares)		3-Com	4/- 1056	3	3168	spared
				Subtotal	103824	0
			-/5 Other Discounts		0	(\$11,827)
				Total	\$502,961	\$97,742

Five Year TCOP **\$600,703**
tpmC: **12,252.83**
\$ / tpmC: **49.03**

Notes:

- * Pricing: 1=FUJITSU ICL Computers LTD NAD Price book/Lexia, 2=Microsoft, 3=BEA, 4=CDW Computer Centers, 5=Northern Telecom
- * All Microsoft maintenance is covered by maintenance for SQL Server
- * Northern Telecom discount of 15% is based on dollar volume discount and 5-year prepaid maintenance
- * Benchmark results and test methodology were audited by Tom Sawyer 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. Individual 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 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.

Numerical Quantities Summary

MQTh, computed Maximum Qualified Throughput		12,252.83 tpmC	
% throughput difference, reported & reproducibility runs		0.01%	
Response Times (in seconds)	90th percentile	Average	Maximum
New-Order	0.89	0.60	28.18
Payment	0.66	0.44	50.91
Order-Status	1.86	1.48	69.48
Delivery (interactive portion)	0.31	0.30	0.90
Delivery (deferred portion)	1.41	0.70	10.24
Stock-Level	4.30	2.53	18.23
Menu	0.30	0.20	0.99
Response time delay added for emulated components		Response Time	Menu
New-Order		0.1	0.1
Payment		0.1	0.1
Order-Status		0.1	0.1
Delivery (interactive portion)		0.1	0.1
Stock-Level		0.1	0.1
Transaction Mix in percentage of total transactions			
New-Order			44.59%
Payment			43.18%
Order-Status			4.12%
Delivery			4.11%
Stock-Level			4.00%
Keying/Think Times (in seconds)	Minimum	Average	Maximum
New-Order	18.01/0.00	18.01/12.10	18.10/121.01
Payment	3.00/0.00	3.01/12.04	3.10/121.01
Order-Status	2.00/0.00	2.01/10.16	2.09/83.84
Delivery	2.00/0.00	2.01/5.09	2.09/40.47
Stock-Level	2.00/0.00	2.01/5.09	2.08/42.37
Test Duration and Checkpointing			
Measurement interval		30 mins	
Transactions (all types) completed during measurement interval		824,399	
Number of checkpoints		One	
Checkpoint interval		30 mins	
Ramp up period		62 mins	