

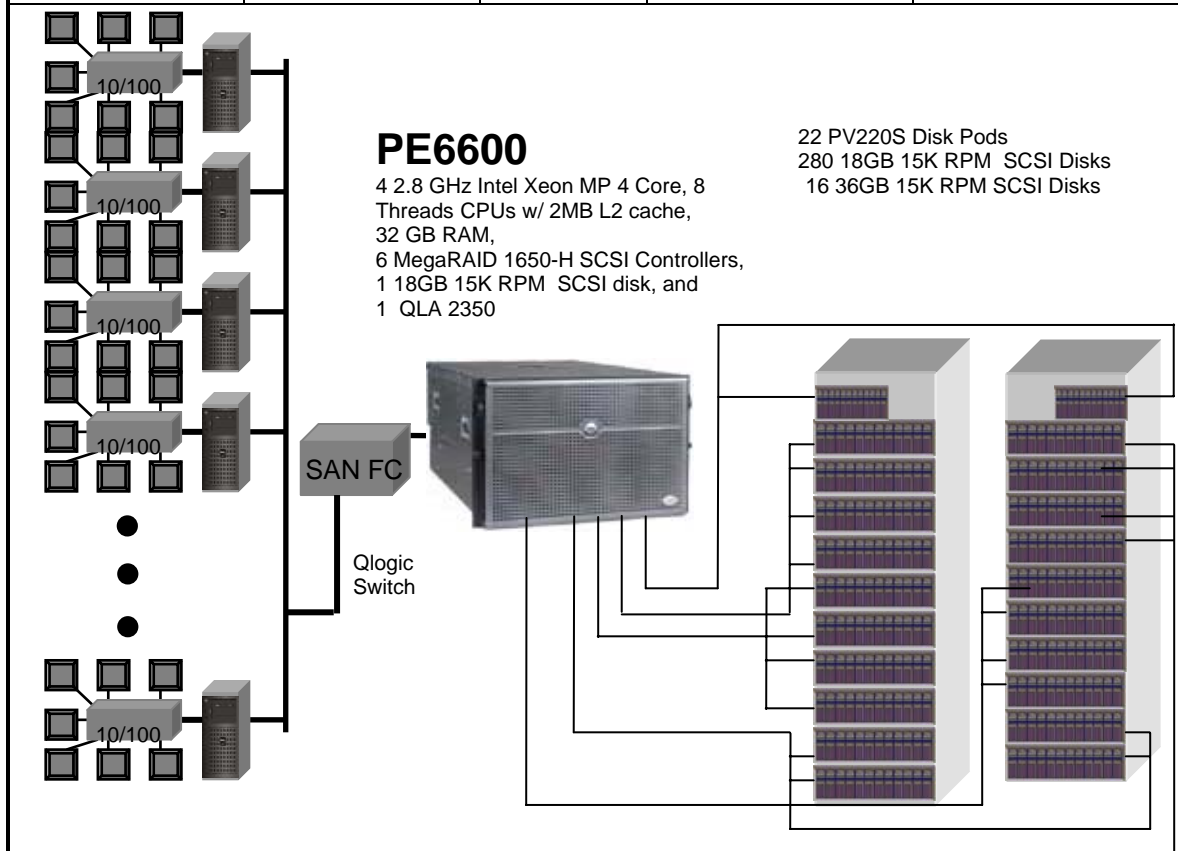


PowerEdge 6600

Client/Server w/6 PE1600 Front Ends

TPC-C Rev 5.6
 Report Date
 Jun 30, 2003
 Updated April 14, 2006

Total System Cost		TPC-C Throughput	Price/Performance	Availability Date
\$302,148		84,595.22 tpmC	\$3.58/ tpmC	Dec 30, 2003
Processors	Database Manager	OS	Other Software	Number of Users
4 x Intel Xeon™ MP Processors 4 Core, 8 Threads 2.8 GHz 2MB L2 Cache	Microsoft SQL Server 2000 Enterprise Edition SP3	Microsoft Windows .NET Enterprise Server	Windows 2000 Server w/ COM+ Internet Information Server 5.0 Microsoft Visual C++	67,200



System Component	Server		Each Client	
Processors Cache	4	Intel Xeon MP 4 Core, 8 Threads @ 2.8GHz 2MB cache	1	Pentium® III w/ 512 KB L2 6 clients 6 Core, 12 Threads @ 1.8 GHz
Memory		32,768 MB		512 MB
Disk Controllers	6 1	MegaRAID 1650-H SCSI Adaptec On-Board	1	Adaptec On-Board
Disk Drives	280 16	18 GB SCSI 36 GB SCSI	1	18 GB
Total Storage		5,270.29 GB		36 GB
Other	1 1 1 1	QLA 2350 1000/100/10 BT CD-ROM DAT	1 1 1	QLA 2350 10/100MB BT NIC CD-ROM

Dell		PowerEdge 6600		TPC-C REV 5.6 EXECUTIVE SUMMARY PAGE 2 OF 2			
		Client/Server		Report Date: 21-Apr-03 Revised April 14, 2006			
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
Server Hardware		Brand	Pricing				
Dell PowerEdge 6600	220-1828		1	7,626	1	1,299	
Intel Xeon MP 2.0GHz / 1MB L2 - 4 processors	311-2348		1	14,999	1	-	
32 GB,DDR, 16 x 2048MB DIMMS	311-2352		1	27,899	1	-	
36 GB U160M SCSI 10K RPM Hard Drive	340-7919		1	249	1	-	
Tape Backup Unit	340-7297		1	699	1	-	
Dell 15" Monitor	320-0960		1	149	1	-	
SANBlade FC-IV Adapter	A0107651	Qlogic	1	1,655	1	0	
MegaRAID series Enterprise 1650-H SCSI RAID controller	A0171598	LSI	1	1,297	8	0	
					Subtotal	63,652	1,299
PowerVault Disk Subsystem							
PV220S, U3 SCSI, PS, Rack mount	220-4476, etc.		1	2,756	22	13,200	
SCSI Cables	310-0679		1	99	11	-	
18 GB SCSI 15K RPM Hard Drive *	340-9472		1	249	280	-	
36 GB SCSI 15K RPM Hard Drive *	340-8249		1	549	12	-	
42U Rack	220-4492		1	964	2	-	
					Subtotal	139,957	13,200
Server Software							
SQL Server 2000 Ent Edition, Per processor licensing **	810-00846	Microsoft	2	16,541	4	5,850	
Windows .NET Enterprise Server 2003 **	P72-00264	Microsoft	2	2,399	1	-	
					Subtotal	68,563	5,850
Client Hardware							
Dell PowerEdge 1600SC, 1.8 GHz Pentium III w/ 512KB L2*****	221-0916		1	1,467	6	4,788	
512MB RAM, 4 DIMMs	311-1928		1	348	6	-	
18GB,U160,10K, SCSI Hard Drive,	340-9450		1	249	6	-	
SANBlade FC-IV Adapter	A0107651	Qlogic	1	1,655	6	-	
Dell 15" Monitor	320-0960		1	149	6	-	
					Subtotal	23,208	4,788
Client Software							
Windows 2000 Server, 5 Client Licenses **	C11-00821	Microsoft	2	738	6	-	
Visual C++ .Net Standard **	254-00170	Microsoft	2	109	1	-	
					Subtotal	4,537	-
User Connectivity							
SAN Fibre Channel 8-port switch	A0090822	Qlogic	1	4,925	1	2,800	
SFP module	340-5916		1	175	7	-	
LC-LC cable	310-1625		1	75	7	-	
					Subtotal	6,675	2,800
					Other Discounts	(32,381)	-
					Total	274,211	27,937
Notes: * Maint. included in PowerVault 220S disk pod or PV650F/630F fibre channel disk pod					Three-Year Cost of Ownership: \$302,148		
** All Microsoft maintenance is covered by the maintenance costs of Microsoft SQL Server							
*** 10% or minimum 2 spares are added in place of onsite service (products have a five year return-to-vendor warranty) Pricing: 1 - Dell 2 - Microsoft					tpmC Rating: 84595.22		
**** Discount based upon total system cost as purchased by a regular customer. Pricing may be verified by calling 1-800-BUY-DELL referencing quote numbers 107210195 as complex quotes.							
***** Substitutes for PE1500SC. Meets TPC Substitution requirements							
Audited by Lorna Livingtree, Performance Metrics Inc.					\$ / tpmC: 3.58		
<i>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 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.</i>							

MQTh, computed Maximum Qualified Throughput

84595.22

Response Times (in seconds)

	Average	90th	Max
- Neworder	0.26	0.36	5.29
- Payment	0.18	0.26	1.64
- Delivery (interactive portion)	0.11	0.12	1.02
- Stock-Level	0.75	1.03	3.01
- Order Status	0.20	0.27	5.39
- Delivery (deferred portion)	0.16	0.24	1.33
- Menu	0.11	0.12	1.25

Response time delay added for emulated components

Menu 0.1
Resp 0.1

Transaction Mix, in percent of total transactions

- New-Order	44.85%
- Payment	43.03%
- Delivery	4.04%
- Stock-Level	4.04%
- Order Status	4.03%

Keying/Think Times (in seconds),

	Min		Average		Max	
- New-Order	18.01	0.0	18.03	12.04	18.60	120.47
- Payment	3.01	0.0	3.03	12.04	3.64	120.64
- Delivery	2.01	0.0	2.03	5.05	2.52	50.46
- Stock-Level	2.01	0.0	2.03	5.05	2.48	50.45
- Order Status	2.01	0.0	2.03	10.04	2.51	100.43

Test Duration

- Ramp-up time	14 minutes
- Measurement interval	120 minutes
- Number of checkpoints	4
- Checkpoint interval	30 minutes
- Number of transactions (all types) completed in measurement interval	23,548,477