



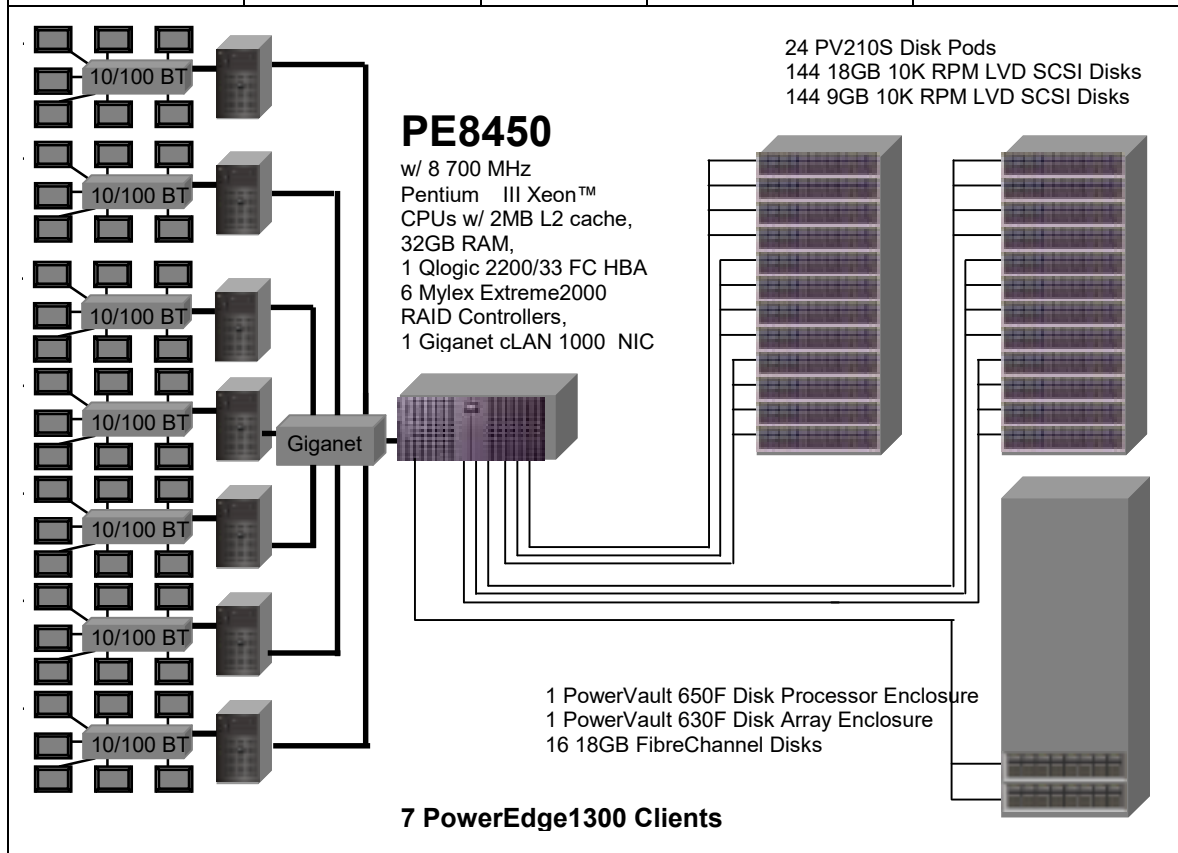
# PowerEdge 8450

Client/Server w/7 PE1300 Front Ends

TPC-C Rev 3.5  
Report Date  
04-08-00

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
<b>\$854,106.40</b>	<b>57014.93 tpmC</b>	<b>\$14.99/tpmC</b>	<b>Jan. 15, 2001</b>

Processors	Database Manager	OS	Other Software	Number of Users
8 x Pentium III Xeon™ Processors 700 MHz 2MB L2 Cache	Microsoft SQL Server 2000 Enterprise Edition	Microsoft Windows 2000 Datacenter Server	Windows 2000 Server w/ COM+ Internet Information Server 5.0 Microsoft Visual C++	<b>46,000</b>



System Component	Server		Each Client	
Processors	8	Pentium III Xeon™ @ 700MHz	1	Pentium III w/ 512 KB L2
Cache		2MB		6 clients @ 600MHz, 1 @ 550
Memory		32768 MB		512 MB
Disk Controllers	6	Mylex ExtremeRAID 2000	1	Adaptec On-Board
	2	Adaptec On-Board		
Disk Drives	145	9 GB SCSI (8.195 GB useable)	1	9 GB
	144	18 GB SCSI (16.758GB useable)		
	16	18 GB FC (16.538 GB useable)		
Total Storage		3,866GB		9 GB
Other	1	QLogic 2200/33 FC HBA	1	
	1	Gigaset cLAN 1000 NIC	1	
	1	CD-ROM	1	
	1	External DAT		

Description	Part Number	Third Party Brand	Pricing	Unit Price	Qty	Extended Price	5 yr. Maint. Price
<b>Server Hardware</b>							
Dell PowerEdge 8450 Windows 2000 DataCenter Server Includes: Pentium III Xeon 700 / 2MB L2 - eight pack 32 GB RAM, 32 x 1GB DIMMS 1MB Cache Coherency Filter Dell M570 15" Monitor 9 GB Ultra-2 LVD SCSI 10K RPM Disk c.LAN 1000 NIC, PCI 32/64-bit c.LAN Gigaset 10m Cable Qlogic HBA Cu	220-9900			231,473.00	1	231,473.00	70,000.00
External 24GB DDS3 DAT ***	12675-00	Sony	1	910.00	3	2,730.00	0.00
ExtremeRAID 2000 ***		Mylex	3	1,872.00	7	13,104.00	0.00
Back-UPS Office 500	519243	APC	1	99.00	29	2,871.00	2,465.00
<b>Subtotal</b>						<b>250,178.00</b>	<b>72,465.00</b>
<b>PowerVault Disk Subsystem</b>							
PV210S,ESEM,PS,Rack mount	220-4099 etc		1	2,864.00	24	68,736.00	27,936.00
SCSI Cables	310-0313		1	69.00	24	1,656.00	0.00
9 GB Ultra-2 LVD SCSI 10K RPM Disk *	340-1394		1	349.00	144	50,256.00	0.00
18 GB Ultra-2 LVD SCSI 10K RPM Disk *	340-1395		1	549.00	144	79,056.00	0.00
650F Disk Processor Enclosure w/ 2 SP/ 2 LCC/2 PS/2 Fans	340-0840		1	11,999	1	11,999	2,650
512 MB RAID Controller Cache	311-0637		1	2,392	2	4,784	0
630F Disk Array Enclosure w/ 2 LCC/2 PS	220-0480		1	4,747	1	4,747	2,280
18GB 10K RPM Fibre Channel Hard Drive 10 Pack *	340-0838		1	9,999	2	19,998	0
42U Rack	220-0605		1	2,199.00	3	6,597.00	0.00
<b>Subtotal</b>						<b>247,829.00</b>	<b>32,866.00</b>
<b>Server Software</b>							
SQL Server 2000 Version 8, Ent. Ed., Per Processor Licensing		Microsoft	2	17,010.00	8	136,080.00	10,475.00
<b>Subtotal</b>						<b>136,080.00</b>	<b>10,475.00</b>
<b>Client Hardware</b>							
Dell PowerEdge 1300, 600 MHz Pentium III w/ 512KB L2	220-8789		1	1,074.00	6	6,444.00	8,214.00
Dell PowerEdge 1300, 550 MHz Pentium III w/ 512KB L2	220-8772		1	1,074.00	1	1,074.00	1,369.00
512MB RAM, 2 DIMMs	311-0953		1	1,370.00	7	9,590.00	0.00
9GB LVD SCSI Disk Drive,	340-1466		1	299.00	7	2,093.00	0.00
Ether Express PRO 100+ ENET Adapter	430-0111	Intel	1	59.00	7	413.00	0.00
c.LAN 1000 NIC, PCI 32/64-bit	430-0302	Giganet	1	695	7	4,865	0
c.LAN Gigaset 2m Cable	310-0497	Giganet	1	99	7	693	0
Dell M570 15" Monitor	320-1502		1	199.00	7	1,393.00	0.00
<b>Subtotal</b>						<b>26,565.00</b>	<b>9,583.00</b>
<b>Client Software</b>							
Windows 2000 Server w/ 25 CAL **		Microsoft	2	999.00	7	6,993.00	0.00
Visual C++ Professional 6.0 Win32 **		Microsoft	2	549.00	1	549.00	0.00
<b>Subtotal</b>						<b>7,542.00</b>	<b>0.00</b>
<b>User Connectivity</b>							
c.LAN Gigaset Switch	220-4191	Giganet	1	5,848.00	1	5,848.00	4,000.00
8 Port Ethernet Switch ***	CT22028D2	ARK PC	4	75.00	9	675.00	0.00
17 Port 10BaseT Ethernet Hub ***	CT1017D1	ARK PC	4	35.00	3188	111,580.00	0.00
<b>Subtotal</b>						<b>112,255.00</b>	<b>0.00</b>
<b>Other Discounts</b>						<b>(51,731.60)</b>	<b>0.00</b>
<b>Total</b>						<b>728,717.40</b>	<b>125,389.00</b>

Notes: * Maintenance included in PowerVault 210S disk pod ** 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 3 - Mylex 4 - ARK PC	<b>Five-Year Cost of Ownership: 854,106.40</b>  <b>tpmC Rating: 57,014.93</b>  <b>\$ / tpmC: 14.99</b>
--	--

*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*

<b>MQTh</b> , computed Maximum Qualified Throughput				57014.93
				tpmC
% throughput difference, reported & reproducibility runs				0.01%
<b>Response Times</b> (in seconds)	Average	90 <sup>th</sup>	Max	
- Neworder	0.54	1.12	6.12	
- Payment	0.49	1.06	5.02	
- Order Status	0.51	1.08	6.02	
- Delivery (interactive portion)	0.17	0.39	1.48	
- Delivery (deferred portion)	0.19	0.25	0.66	
- Stock-Level	0.83	1.45	5.79	
- Menu	0.17	0.39	1.52	
Response time delay added for emulated components				Menu 0.1 Resp 0.1
<b>Transaction Mix</b> , in percent of total transactions				
- New-Order				44.86 %
- Payment				43.03 %
- Order-Status				4.04 %
- Delivery				4.04 %
- Stock-Level				4.03 %
<b>Keying/Think Times</b> (in seconds),	Min	Average	Max	
- New-Order	18.01	0.0	18.02	120.43
- Payment	3.01	0.0	3.02	120.45
- Order-Status	2.01	0.0	2.02	100.40
- Delivery	2.01	0.0	2.02	50.40
- Stock-Level	2.01	0.0	2.02	50.41
<b>Test Duration</b>				
- Ramp-up time				32 minutes
- Measurement interval				30 minutes
- Number of checkpoints				1
- Checkpoint interval				30 minutes
- Number of transactions (all types) Completed in measurement interval				3,967,075