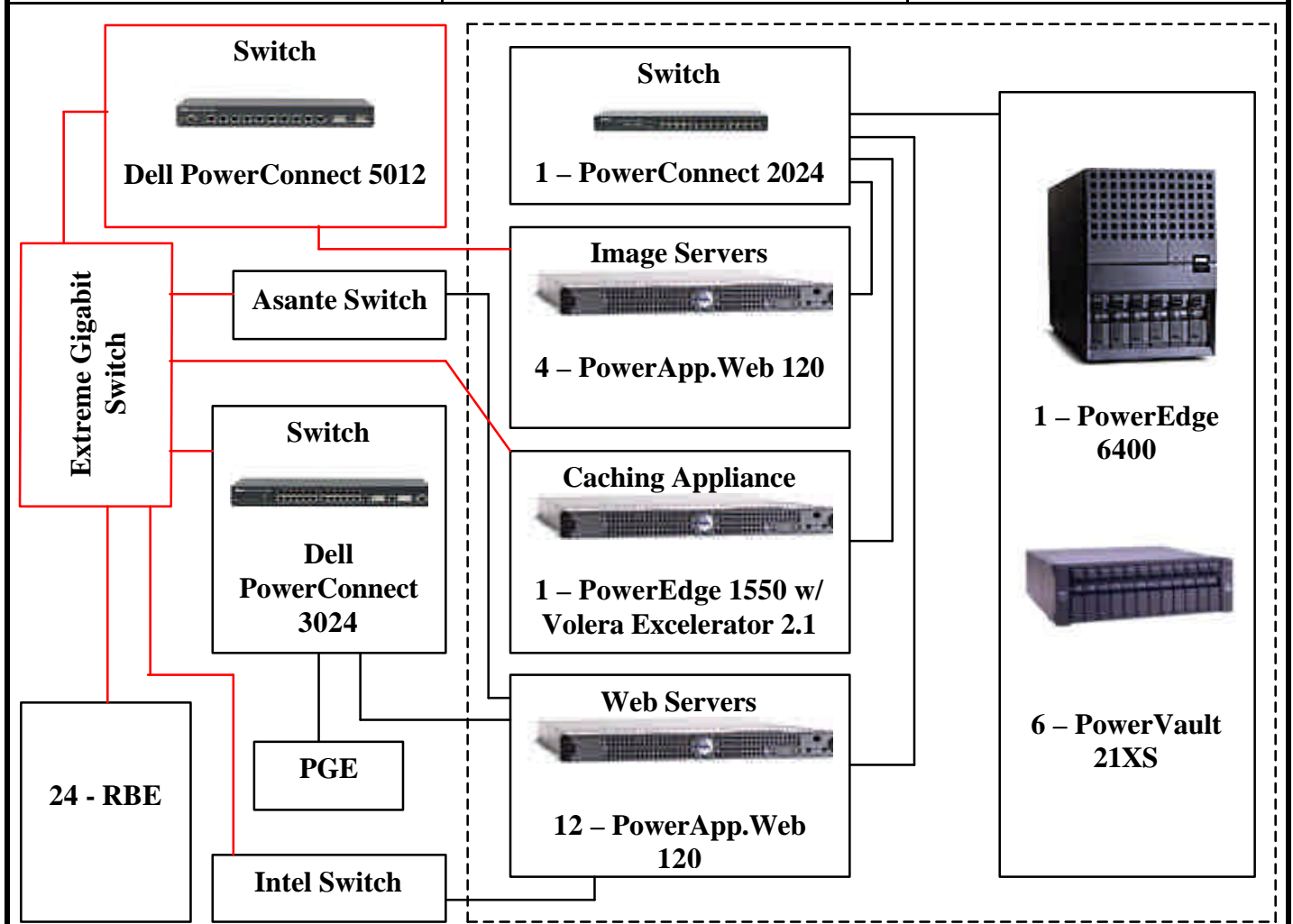



Dell POWER PowerApp PowerEdge PowerVault	PowerEdge 6400/900MHz with PowerApp.Web 120	TPC-W Revision 1.7
Price Performance \$25.70 per WIPS@10,000	Performance 6622.4 WIPS@10,000	Available December 19, 2001
Total Cost \$170,039	WIPSo@10,000 1171.7	WIPSp@10,000 6636.5
Scale Factor 10,000 Items	Number of Users 50,000	Number of Systems 18
Web Server Microsoft Internet Information Server 5.0	Application Server ISAPI Application	Database Manager Microsoft SQL Server 2000 Standard Edition with SP1
Load Balancer Microsoft Windows 2000 DNS Server	Other Software Microsoft SQL Server 2000 Full Text Search	Web Cache PowerEdge 1550 with Volera Excelerator 2.1



Function	# of Systems	System	OS	Processors	Memory
Web Server	12	PowerApp.Web 120	Microsoft Windows Powered	2 - Pentium III 1000MHz/256kB L2	512MB
Image Server DNS	4	PowerApp.Web 120	Microsoft Windows Powered	2 - Pentium III 1000MHz/256kB L2	1GB
Web Cache	1	PowerEdge 1550	Volera Excelerator 2.1	1 - Pentium III 1.26GHz/512kB L2	512MB
Database Server	1	PowerEdge 6400	Windows 2000 Advanced Server	4 - Pentium III Xeon 900MHz/2MB L2	4GB

DELL	PowerEdge 6400/900MHz with PowerApp.Web 120		TPC-W Revision 1.7					
			Report Date 12/19/01					
Price Performance	Performance		Availability Date					
\$25.70/WIPS	6622.4 WIPS		12/19/2001					
Third Party			Extended Price	3 Yr Maintenance Price				
Description	Part No.	Brand	Price	Unit Price	Quantity			
Web Server Hardware:								
SYSTEM: PowerApp.Web 120 includes 1GHz/133MHz FSB	220-9998	1	1	\$1,101	12	\$13,212		
PROC: 2nd 1GHz/133MHz FSB	311-5512	1	1	\$599	12	\$7,188		
MEM: 512MB (4x128MB)	311-1225	1	1	\$408	12	\$4,896		
DISK: 1x18GB SCSI	340-2468	1	1	\$249	12	\$2,988		
NIC: Pro 100+ Adapter	430-4937	1	1	\$59	12	\$708		
NIC: Dual Integrated Pro 10/100+ Adapters	Included in SYSTEM.					\$0		
ACCESSORY: Rail Racks	310-5986	1	1	\$249	12	\$2,988		
MAINT: 3 Years 4Hour-7x24, Unisys (Initial/2Yr Ext.)	900-6350/900-6362	1	1	\$774	12		\$9,288	
MONITOR: DELL E551 15"	320-0960	1	1	\$149	1	\$149		
Web Server Software:								
OS: Windows for PAW Server 2K	420-0802	1	1	\$240	12	\$2,880		
ACC: Microsoft Visual C++ Professional 6.0	048-00317	2	2	\$549	1	\$549		
Web Cache Appliance Hardware:								
Web Server Subtotal:						\$35,558	\$9,288	
SYSTEM: PowerEdge 1550 includes 1.26GHz/133MHz	220-6497	1	1	\$935	1	\$935		
MEM: 512MB (4x128MB)	311-1225	1	1	\$408	1	\$408		
DISK: 1x18GB SCSI	340-2468	1	1	\$249	2	\$498		
ACCESSORY: Rail Racks	310-5986	1	1	\$249	1	\$249		
NIC: Intel Pro 1000 Server Adapter Gigabit (SX Fiber)	PWLA8490	3	3	\$435	1	\$435		
SPARES: Intel Pro 1000 Server Adapter Gigabit (SX Fiber)	Spares priced to spec.		3	3	\$435	2	\$870	
MAINT: 3 Years 4Hour-7x24, Unisys (Initial/2Yr Ext.)	900-6360/900-6362	1	1	\$774	1		\$774	
MONITOR: DELL E551 15"	320-0960	1	1	\$149	1	\$149		
Web Cache Appliance Software:								
OS: Volera Excelsator 2.1	06-20011	1	1	\$4,495	1	\$4,495		
MAINT: Volera Excelsator 2.1 3Yrs 24x7 Platinum Service	06-20057	1	1	\$989	3		\$2,967	
Web Cache Subtotal:						\$8,039	\$3,741	
Image Server Hardware:								
SYSTEM: PowerApp.Web 120 includes 1GHz/133MHz FSB	220-9998	1	1	\$1,101	4	\$4,404		
PROC: 2nd 1GHz/133MHz FSB	311-5512	1	1	\$599	4	\$2,396		
MEM: 1GB SDRAM,133MHZ,(4X256MB)	311-0896	1	1	\$892	4	\$3,568		
DISK: 1x18GB SCSI	340-2468	1	1	\$249	8	\$1,992		
ACCESSORY: Rail Racks	310-5986	1	1	\$249	4	\$996		
NIC: BROADCOM,1000,NIC,CAT5	430-1980	1	1	\$149	4	\$596		
MAINT: 3 Years 4Hour-7x24, Unisys (Initial/2Yr Ext.)	900-6360/900-6362	1	1	\$774	4		\$3,096	
MONITOR: DELL E551 15"	320-0960	1	1	\$149	1	\$149		
Image Server Software:								
OS: Windows for PAW Server 2K	420-0802	1	1	\$240	4	\$960		
Img Server Subtotal:						\$15,061	\$3,096	
Database Server Hardware:								
SYSTEM: PE6400,900MHZ/2MB,RDNT,BASE	220-1495	1	1	\$6,714	1	\$6,714		
PROC: Quad 900MHz/2MB L2 Cache	311-0939	1	1	\$16,799	1	\$16,799		
MEM: 4GB RAM, 16x256MB RGT DIMMs	311-4115	1	1	\$3,584	1	\$3,584		
BACKPLANE: 8 Bay Split 2X4 BakPln(1"only)	340-5773	1	1	\$249	1	\$249		
CTRL: Mylex ExtremeRAID 2000 Card,64MB	4	4	4	\$1,398	3	\$4,194		
SPARES: Mylex ExtremeRAID 2000 Card,64MB	Spares priced to spec.		4	4	\$1,398	2	\$2,796	
DISK: 18GB, 10k SCSI	340-8808	1	1	\$249	1	\$249		
NIC: Integrated Pro 100+ Adapter	Included in SYSTEM.					\$0		
TAPE: 20/40GB DDS4 Autoloader	340-9167	1	1	\$2,099	1	\$2,099		
MONITOR: DELL E551 15"	320-0960	1	1	\$149	1	\$149		
MAINT: 3 Years 4Hr/7x24, Unisys (Initial/2Yr Ext.)	900-6370/900-6352	1	1	\$1,783	1		\$1,783	
ACCESSORY: Rail Racks	310-0516	1	1	\$349	1	\$349		
POWER: Tower 1400 UPS 110V	310-0284	1	1	\$599	2	\$1,198		
Database Server Software:								
OS: Microsoft Windows 2000 Advanced Server	C10-00475	2	2	\$2,399	1	\$2,399		
APP: Microsoft SQL Server 2000 Standard Edition w/ SP1	228-00968	2	2	\$4,271	4	\$17,084		
MAINT: 3-Year Maintenance for All Microsoft Software	2	2	2	\$2,095	3		\$6,285	
DB Server Subtotal:						\$57,863	\$8,068	
Storage Hardware:								
SYSTEM: PowerVault 21x - 12 HDD Storage System	220-4099	1	1	\$1,253	6	\$7,518		
CTRL: Ultra3 SCSI, Not Clusterable	340-9556	1	1	\$409	7	\$2,863		
POWER: Redundant Power Option	310-6125	1	1	\$399	6	\$2,394		
ACCESSORY: Rack Rail Kit	310-1330	1	1	\$114	6	\$684		
RACK: PE4210,DOORS,GRND,42U,PS	220-4493	1	1	\$1,110	1	\$1,110	\$184	
DISK: 36GB, 10k SCSI	340-6762	1	1	\$499	18	\$8,982		
DISK: 18GB, 10k SCSI	340-1395	1	1	\$249	44	\$10,956		
CBL: 2 Cables,PERC,4M, PV2XXS	310-0313	1	1	\$49	7	\$343		
MAINT: 3 Years 4Hr/7x24, IGS (Initial/2Yr Ext.)	902-4310/902-1512	1	1	\$1,099	6		\$6,594	
Storage Subtotal:						\$34,850	\$6,778	
Connectivity:								
SWITCH: PowerConnect 2024	220-2099	1	1	\$173	1	\$173		
MAINT: 3 Years 4Hr/7x24, Unisys (Initial/2Yr Ext.)	950-1660/950-1662	1	1	\$65	1		\$65	
Connectivity Subtotal:						\$173	\$65	
Total:						\$151,544	\$31,036	
Dell Discounts:						(\$12,616)		
3 Year Cost of Ownership		\$169,964						
WIPS @10,000 Items		6622.4						
\$ / WIPS @10,000 Items		\$25.70						
1 Dell		2 Microsoft		3 www.lanadapters.com		4 www.compuview-ms.com		
Independently Audited by:		Lorna Livingtree		Performance Metrics				

	PowerEdge 6400/900MHz with PowerApp.Web 120	TPC-W Revision 1.7
		Report Date 12/19/01
Price Performance	Performance	Availability Date
\$25.70 per WIPS@10,000	6622.4 WIPS@10,000	December 19, 2001

Numerical Quantities Summary

WIPS Interactions Summary

Interaction	Mix	Count	90% Response
Home	15.99%	1,906,590	0.21
Shopping Cart	11.61%	1,383,822	0.18
Customer Registration	3.00%	358,120	0.09
Buy Request	2.61%	310,601	0.21
Buy Confirm	1.20%	143,407	2.15
Order Inquiry	0.75%	89,739	0.12
Order Display	0.66%	79,013	0.15
Search Request	20.00%	2,383,940	0.17
Search Result	16.99%	2,025,716	0.20
New Products	5.00%	595,865	0.20
Best Sellers	4.99%	594,612	0.21
Product Detail	17.00%	2,026,528	0.12
Admin. Request	0.10%	11,829	0.12
Admin. Confirm	0.09%	10,617	1.96

Measurement Intervals Summary

	Shopping	Browsing	Ordering
Ramp-up Time (min)	138.0	55.0	40.0
Length of Measurement Interval (min)	30.0	30.0	30.0
Average Think Time (seconds)	7.35	7.35	7.35
Average User Session Duration (min)	14.4	14.7	14.3
Number of Users	50,000	50,000	9,000