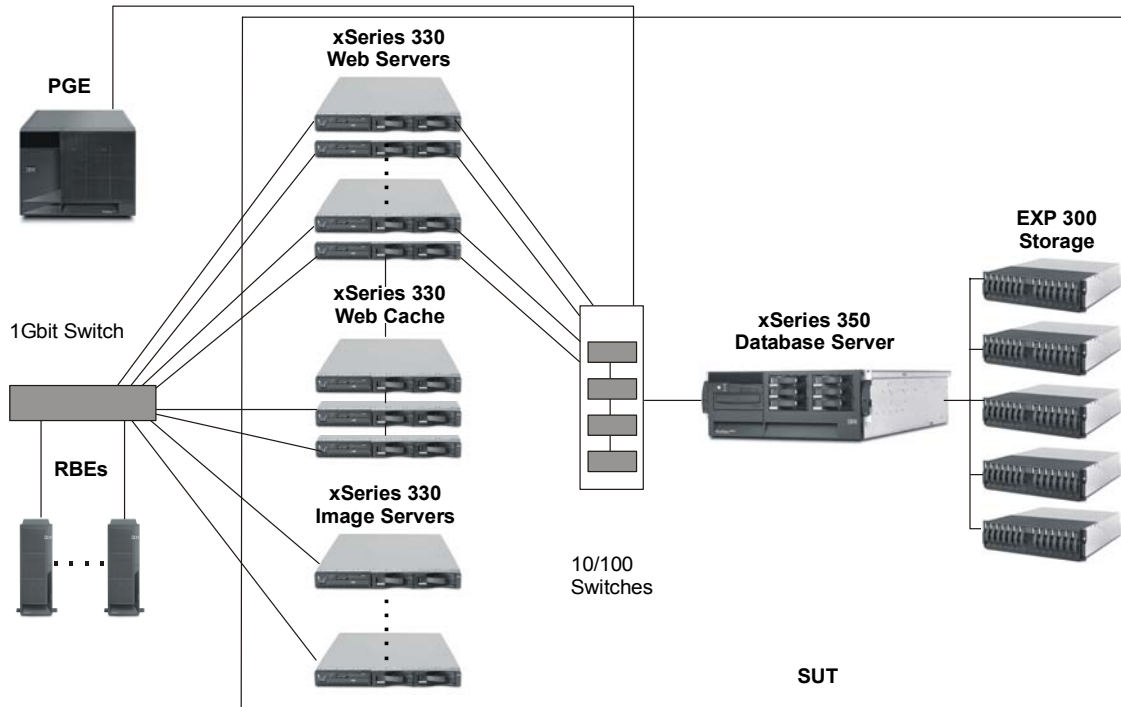
	IBM @server xSeries 350 with xSeries 330 using Microsoft SQL Server 2000	TPC-W Version 1.7
		Report Date: 12/17/2001
Price Performance \$31.77 / WIPS@10,000	Performance 7073.7 WIPS @10,000	Available December 17, 2001
Total Cost \$224,698	WIPSo@10,000 1042.2	WIPSp@10,000 7772.4
Scale 10,000 Items	Number of Users 54,750	Number of Systems 21
Web Server Microsoft Corporation Internet Information Server 5.0	Application Server Microsoft ISAPI	Image Server Microsoft Corporation Internet Information Server 5.0
Database Manager Microsoft SQL Server 2000	Load Balancer Microsoft DNS	Web Cache Volera Excelerator 2.1

Other Software: Microsoft Windows 2000 Indexing Services



Function	System	# of Systems	Operating System	Processors	Memory
Web Server	xSeries 330	11	Windows 2000 Server	2 Pentium III 1.26GHz/512KB	768MB
Web Server / Other Software	xSeries 330	1	Windows 2000 Server	2 Pentium III 1.26GHz/512KB	768MB
Image Server	xSeries 330	4	Windows 2000 Server	2 Pentium III 1.26GHz/512KB	512MB
Image Server / Load Balancer	xSeries 330	1	Windows 2000 Server	2 Pentium III 1.26GHz/512KB	512MB
Database Server	xSeries 350	1	Windows 2000 Advanced Server	4 Pentium III Xeon 900MHz/2MB	4GB
Web Cache	xSeries 330	3	Volera Excelerator 2.1	1 Pentium III 1.26GHz/512KB	512MB



**@server xSeries 350 with @server xSeries 330
using Microsoft SQL Server 2000**

TPC-W Rev. 1.7

Report Date:
Dec. 17, 2001

Price Performance

Performance

Availability Date

\$31.77 per WIPS@10,000

7,073.70 WIPS@10,000

December 17, 2001

Description	Part No.	Third Party		Unit Price	Qty.	Extended Price	3 yr.Maint. Price
		Brand	Price				
Web/Application/Image Server Hardware							
xSeries 330 w/1.26GHz/512KB Pentium III	8674-31X	IBM	1	\$1,845	20	\$36,900	\$9,000
1.26GHz Pentium III Processor	25P2836	IBM	1	999	17	16,983	0
256MB 133MHz ECC SDRAM RDIMM	10K0020	IBM	1	245	32	7,840	0
18.2GB 10K Ultra160 SCSI Drive	37L7205	IBM	1	275	32	8,800	0
20/40 DDS/4 4mm SCSI Internal Tape Drive	00N7991	IBM	1	769	1	769	0
E54 15" (13.8" Viewable) Color Display	6331N2N	IBM	1	149	1	149	90
Intel PRO/1000 T Adapter	22P6501	Intel	1	99	20	1,980	0
NetBAY42 Rack Standard Expansion Cabinet	9306421	IBM	1	1,610	1	1,610	300
Software							
Microsoft Windows 2000 Server	C11-00821	Microsoft	2	738	17	12,546	incl. below
Volera Excelerator 2.1 (for 512MB)	993-000005-001	Volera	3	4,495	3	13,485	
3-Years of Volera Technical Support (7x24)	051-001230-001	Volera	3	3,372	3		10,116
Subtotal						\$101,062	\$19,506
Database Server Hardware							
xSeries 350 w/900MHz/2MB Pentium III Xeon	8682-6RY	IBM	1	\$8,199	1	\$8,199	\$1,495
900MHz/2MB Pentium III Xeon Processor	19K4633	IBM	1	6,189	3	18,567	0
512MB ECC SDRAM RDIMM	33L3117	IBM	1	499	8	3,992	0
Mylex eXtremeRAID 2000 Adapter (+2)	E2000-4-32NB	Mylex	4	1,872	5	9,360	0
18.2GB 15K Ultra160 SCSI Drive	19K0656	IBM	1	549	57	31,293	0
36.4GB 10K Ultra160 SCSI Drive	37L7206	IBM	1	549	14	7,686	0
20/40 DDS/4 4mm SCSI Internal Tape Drive	00N7991	IBM	1	769	1	769	0
E54 15" (13.8" Viewable) Color Display	6331N2N	IBM	1	149	1	149	90
EXP300 Storage Expansion Enclosure	35311RU	IBM	1	3,179	5	15,895	1,000
NetBAY42 Rack Standard Expansion Cabinet	9306421	IBM	1	1,610	1	1,610	300
Software							
Microsoft SQL Server 2000 Standard Edition	228-00968	Microsoft	2	4,271	4	17,084	
Microsoft Windows 2000 Advanced Server	C10-00475	Microsoft	2	2,399	1	2,399	
Visual C++ Professional 6.0	048-00317	Microsoft	2	549	1	549	
3-Year Maintenance for Microsoft Software		Microsoft	2	2,095	3		6,285
Subtotal						\$117,552	\$9,170
Connectivity							
8-Port 10/100Mbps Ethernet Switch (+10%)	DSS-8		5	51	5	255	\$0
Subtotal						\$255	
Total						\$218,869	\$28,676
Large volume discount of 14% on IBM hardware; prices will vary if purchased separately.						(\$22,847)	
3rd Party Brand:							
1:IBM, 2: Microsoft, 3: Volera, 4: Mylex, 5: Netlux			3-Year Cost of Ownership			\$224,698	
3rd Party Pricing:			WIPS@10,000			7,073.70	
1: IBM, 2: Microsoft, 3: Volera, 4: Mylex, 5: Netlux			\$/ WIPS@10,000			\$31.77	

Independently Audited by: Francois Raab InfoSizing, Inc.



@server xSeries 350 with @server xSeries 330
using Microsoft SQL Server 2000

TPC-W Rev. 1.7

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Numerical Quantities Summary

WIPS Interaction Summary

Interaction	Mix	Count	90% Response
Home	16.02	2,039,379	0.2
Shopping Cart	11.61	1,478,579	0.2
Customer Registration	3.00	382,291	0.1
Buy Request	2.60	331,095	0.3
Buy Confirm	1.19	152,102	2.5
Order Inquiry	0.75	95,472	0.2
Order Display	0.66	83,929	0.3
Search Request	19.98	2,544,622	0.2
Search Results	16.99	2,163,035	0.2
New Products	5.01	638,161	0.2
Best Sellers	5.00	636,361	0.2
Product Detail	16.99	2,163,862	0.1
Admin. Request	0.10	12,532	0.1
Admin. Confirm	0.09	11,262	2.6

Measurement Intervals Summary

	Shopping	Browsing	Ordering
Ramp-up Time (min.)	11 Minutes	11 Minutes	15 Minutes
Length of Measurement Interval (min.):	30 Minutes	30 Minutes	30 Minutes
Average Think Time (sec.)	7.66	7.00	7.00
Average User Session Duration (min.):	14.94 Minutes	14.97 Minutes	14.99 Minutes
Number of Users	54,750	54,750	7,700