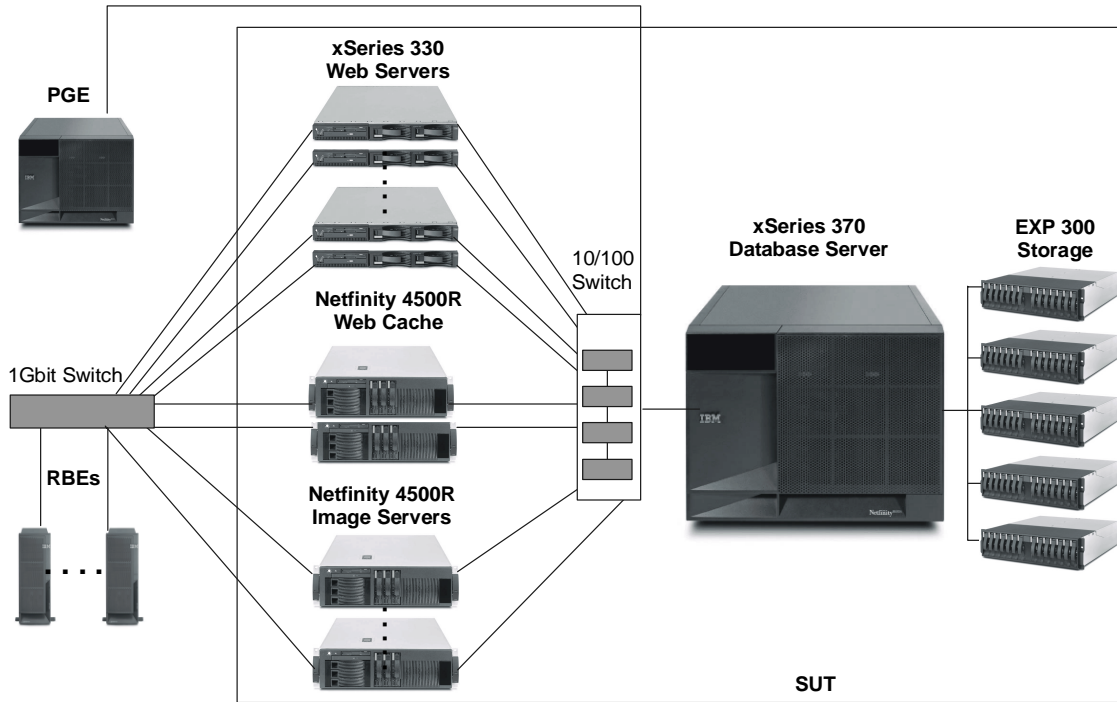
	IBM @server xSeries 370 with xSeries 330 using Microsoft SQL Server 2000	TPC-W Version 1.5
		Report Date: 05/31/2001
Price Performance \$76.67 WIPS@100,000	Performance 6045.4 WIPS @100,000	Available May 31, 2001
Total Cost \$463,496	WIPSo@100,000 1168.6	WIPSp@100,000 6140.2
Scale 100,000 Items	Number of Users 44,000	Number of Systems 23
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 Microsoft ISA on Windows 2000

Other Software: Microsoft Windows 2000 Indexing Services



Function	System	# of Systems	Operating System	Processors	Memory
Web Server	xSeries 330	15	Microsoft Windows 2000 Server	2 Pentium III 1GHz/256KB	512MB
Load Balancer					
Other Software					
Image Server	Netfinity 4500R	5	Microsoft Windows 2000 Server	2 Pentium III 933MHz/256KB	2GB
Database Server	xSeries 370	1	Microsoft Windows 2000 Advanced Server	8 Pentium III Xeon 900MHz/2MB	4GB
Web Cache	Netfinity 4500R	2	Microsoft Windows 2000 Server	1 Pentium III 933GHz/256KB	512MB



**@server xSeries 370 with @server xSeries 330
using Microsoft SQL Server 2000**

TPC-W Rev. 1.5

Report Date:
May 31, 2001

Price Performance

Performance

Availability Date

\$76.67 per WIPS@100,000

6045.4 WIPS@100,000

May 31, 2001

Description	Part No.	Third Party		Unit Price	Qty.	Extended Price	3 yr.Maint. Price	
		Brand	Price					
Web/Application Server Hardware								
xSeries 330-1GHz/256KB Pentium III	8654-51Y	IBM	1	\$1,811	15	\$27,165	\$22,425	
1GHz Pentium III Processor	10K0053	IBM	1	866	15	12,990	0	
512MB 133MHz ECC SDRAM RDIMM	33L3146	IBM	1	857	15	12,855	0	
18.2GB 10K Ultra160 SCSI Drive	37L7205	IBM	1	363	37	13,431	0	
Netfinity 4500R-933MHz/256KB Pentium III	8656-5RY	IBM	1	1,794	7	12,558	10,465	
933MHz/256KB Pentium III	19K4631	IBM	1	693	5	3,465	0	
1GB 133MHz ECC SDRAM RDIMM	33L3129	IBM	1	1,950	10	19,500	0	
512MB 133MHz ECC SDRAM RDIMM	33L3127	IBM	1	857	2	1,714	0	
9.1GB 10K Ultra160 SCSI Drive	37L7204	IBM	1	238	10	2,380	0	
20/40 DDS/4 4mm SCSI Internal Tape Drive	00N7991	IBM	1	762	1	762	0	
E54 15" (13.8" Viewable) Color Display	6331N2N	IBM	1	156	8	1,248	720	
Alteon/3COM ACEnic 1000-SX Adapter (+3)	710011	3COM	3	795	25	19,875	0	
Netfinity Rack	9306900	IBM	1	1,549	1	1,549	300	
Side Panel Kit	94G6669	IBM	1	175	1	175	0	
Software								
Microsoft Windows 2000 Server	C11-00821	Microsoft	2	738	22	16,236	incl. below	
Microsoft Internet Security & Acceleration EE	F89-00055	Microsoft	2	5,699	2	11,398	incl. below	
Database Server Hardware						Subtotal	\$157,301	\$33,910
xSeries 370 w/900MHz Pentium III Xeon	8681-3RX	IBM	1	17,350	1	\$17,350	\$2,495	
900MHz Pentium III Xeon Processor	19K4637	IBM	1	5,925	7	41,475	0	
8500>4X Accelerator Kit	10K2335	IBM	1	1,120	1	1,120	0	
512MB ECC SDRAM RDIMM	20L0249	IBM	1	857	7	5,999	0	
ServeRAID-4H Ultra160 SCSI Cntrl.	37L6889	IBM	1	2,115	2	4,230	0	
9.1GB 15K Ultra160 SCSI Drive	19K0655	IBM	1	476	42	19,992	0	
18.2GB 15K Ultra160 SCSI Drive	19K0656	IBM	1	684	28	19,152	0	
20/40 DDS/4 4mm SCSI Internal Tape Drive	00N7991	IBM	1	762	1	762	0	
E54 15" (13.8" Viewable) Color Display	6331N2N	IBM	1	156	1	156	90	
EXP300 Storage Expansion Enclosure	35311RU	IBM	1	2,756	5	13,780	1,000	
Netfinity Enterprise Rack	930842P	IBM	1	2,378	1	2,378	300	
Software								
Microsoft SQL Server 2000 Enterprise Edition	810-00846	Microsoft	2	16,541	8	132,328		
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						\$261,670	\$10,170	
Connectivity								
8-Port 10/100 Nway Fast Ethernet (+10%)	NX-DSS8		4	89	5	445	\$0	
Subtotal						\$445		
3rd Party Brand:						Total	\$419,416	\$44,080
1:IBM, 2: Microsoft, 3: 3COM, 4: Netlux						3-Year Cost of Ownership	\$463,496	
3rd Party Pricing:						WIPS@100,000	6045.40	
1: SHI, 2: Microsoft, 3: 3COM, 4: Netlux						\$/ WIPS@100,000	\$76.67	

Independently Audited by:

Francois Raab InfoSizing, Inc.



@server xSeries 370 with @server xSeries 330
using Microsoft SQL Server 2000

TPC-W Rev. 1.5

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6045.4 WIPS@100,000

May 31, 2001

Numerical Quantities Summary

WIPS Interaction Summary

Interaction	Mix	Count	90% Response
Home	16.00	1,741,276	0.60
Shopping Cart	11.61	1,263,282	0.60
Customer Registration.	3.00	326,644	0.10
Buy Request	2.60	282,763	0.60
Buy Confirm	1.20	130,157	2.80
Order Inquiry	0.75	81,493	0.50
Order Display	0.66	71,918	0.60
Search Request	20.00	2,175,971	0.50
Search Results	17.00	1,850,014	0.90
New Products	5.00	544,029	1.00
Best Sellers	5.00	543,585	1.10
Product Detail	17.00	1,850,244	0.50
Admin. Request	0.10	10,742	0.50
Admin. Confirm	0.09	9,618	4.30

Measurement Intervals Summary

	Shopping	Browsing	Ordering
Ramp-up Time (min.)	2:13:22	00:10:29	00:10:13
Length of Measurement Interval (min.):	30 Minutes	30 Minutes	30 Minutes
Average Think Time (sec.)	7.04	7.04	7.01
Average User Session Duration (min.):	14.96 Minutes	15.02 Minutes	14.82 Minutes
Number of Users	44,000	44000	9600

Overload Run

Maximum Think Time	90% WIRT for Home	Failure Rate	WIPS
56.83 (1.96 Avg)	21s	13.4%	3,658.00