SPECweb99 Result

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IBM Corp.: Netfinity 5100
Microsoft: IIS 5.0

SPECweb99 = 1001

Test Date: Mar-2000
Tester: IBM

Hardware Avail:	Apr-2000	OS Avail:	Feb-2000	HTTP Software Avail:	Feb-2000	Sup. Software Avail:	--	SPEC license #:	11

Hardware

Vendor:	IBM Corp.
Model:	Netfinity 5100
Processor:	733MHz Pentium III
# Processors:	2 cores, 2 chips, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256K on chip
Other Cache:	None
Memory:	4GB
Disk Subsystem:	1 CDROM, 5 9.1 GB 10K RPM drives
Disk Controllers:	1 IDE, 1 SCSI
Other Hardware:	1 Network Adapter

Software

Operating System:	Windows 2000 Advanced Server
File System:	NFS
Other Software:	None

HTTP Software

Vendor:	Microsoft
HTTP Software:	IIS 5.0
API:	ISAPI
Server Cache:	None
Log Mode:	W3C Extended Log File Format

Test Sponsor

Test Date:	Mar-2000
Tested By:	IBM
SPEC License:	11

Network

# of Controllers:	1
Network Controllers:	Alteon Gigabit
# of Nets:	1
Type of Nets:	Gigabit Ethernet
Network Speed:	1000 M/bits
MSL (sec):	30 (Non RFC1122)
Time-Wait (sec):	60 (Non RFC1122)
MTU:	1500

Clients

# of Clients:	6
Model:	IBM Z Pro
Processor:	450MHz Pentium II Xeons
# of Processors:	2
Memory:	256MB
Network Controller:	Alteon
Operating System:	"Microsoft Windows 2000 Professional
Compiler:	Microsoft C++ Version 6

Notes/Tuning Information

SUT Notes

IIS settings: Maximum Performance
IIS Home Directory: Access for Read & Write, Scripts & Executables
IIS Virtual Directory sprc99 points back to web server root, low application protection
IIS Logging: W3C Extended logging, defaults plus bytes sent

Operating System Notes

Tuning Parameters:
- Tcpip/Parameters/MaxFreeTwTcbs=400000, sets maximum number of TIME_WAIT tcbs to 400,000
- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 65,536 entries, default 512
- Tcpip/Parameters/MaxUserPorts=0xfffe, sets maximum open ports to 65534
- Tcpip/Parameters/NumTcbTablePartions=16, sets number of independent TCB table segments, defualt 4
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameterto 60 seconds (non-RFC 1122), default 240
- Tcpip/Parameters/TcpWindowSize=17520, sets TCP send/receive window size, defult 8192
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120
- Inetinfo/Parameters/ListBacklog=1000, defualt 25
- Inetinfo/Parameters/LogFileFlushInterval=60, forces flush every 60 seconds, default 300
- Inetinfo/Parameters/ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes

Alteon NIC settings in registry:
- IntCount=10000, default 1000. It is the total number of "loops" DPC would process for events like receives and transmits before yielding to the OS.
- RecvCoalMax=80, sets number of frames received beforenotifying host, defualt 20
- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 1000
- RxFlowControl=0 (off), defualt 1 (on)
- SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 1000
- StatTicks=0, default 100000

HTTP API Notes

Microsoft ISAPI for IIS 5.0 compiled with VC++6.0 code optimization=Pentium Pro

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Notes/Tuning Information (Continued)

Hardware Notes

1 9GB 10K RPM disk for OS & pagefiles, 4 9GB 10K RPM disks striped for web pages and logs