SPECweb99 Result

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IBM: Netfinity 5600
Microsoft: IIS 5.0

SPECweb99 = 710

Test Date: Feb-2000
Tester: IBM

Hardware Avail:	Nov-1999	OS Avail:	Feb-2000	HTTP Software Avail:	Feb-2000	Sup. Software Avail:	Feb-2000	SPEC license #:	11

Hardware

Vendor:	IBM
Model:	Netfinity 5600
Processor:	667 Pentium III
# Processors:	1 core, 1 chip, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB
Other Cache:	none
Memory:	2GB
Disk Subsystem:	5 X 9GB (Seagate ST39103LC)
Disk Controllers:	Adaptec 7897 LVD SCSI
Other Hardware:	1 ALTEON ACEswitch 180 GbE Switch

Software

Operating System:	Microsoft Windows 2000 Advanced Server
File System:	NTFS
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:	Feb-2000
Tested By:	IBM
SPEC License:	11

Network

# of Controllers:	1
Network Controllers:	Alteon ACEnic PCI
# of Nets:	1
Type of Nets:	Gigabit Ethernet
Network Speed:	1Gb/s
MSL (sec):	30 (Non RFC1122)
Time-Wait (sec):	60 (Non RFC1122)
MTU:	1500

Clients

# of Clients:	5
Model:	Intellistation Z Pro
Processor:	450Mhz Pentium II Xeon
# of Processors:	2
Memory:	256MB
Network Controller:	Alteon ACEnic PCI
Operating System:	Windows 2000 Professional
Compiler:	Microsoft Visual C++ 6.0

Notes/Tuning Information

SUT Notes

IIS settings: Maximum Performance
IIS Home Directory: Access for Read & Write, Scripts & Executables
IIS Virtual Directory spec99 points back to web server root, low application protection

Operating System Notes

Tuning parameters:
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240
- Tcpip/Parameters/MaxFreeTwTcbs=0x400000, sets maximum number of TIME_WAIT tcbs to 0x400000
- Tcpip/Parameters/MaxUserPort=0xfffe, sets maximum open ports to 65534
- Tcpip/Parameters/TcpWindowSize=17520, sets TCP send/receive window size, default 8192
- Session Manager/Memory Management/LargeSystemCache=0x1, sets the filesystem cache for file sharing
- NDIS/Parameters/ProcessorAffinityMask=0, The initiating processor services DPC events, default 0xffffffff
- Inetinfo/Parameters/ListenBacklog=0xfa, default 10
- Inetinfo/Parameters/ObjectCacheTTL=0xffffffff, sets IIS object cache timeout, default 10 minutes
- Inetinfo/Parameters/AcceptExTimeout=0x1, sets time for accept ex socket to wait for receive, default 120
- Inetinfo/Parameters/LogFileFlushInterval=0xffffffff, flushes when the logfile batch size is satisified, default 300
- Inetinfo/Parameters/MemoryCacheSize=0x732c5666, The size of the IIS object cache, default 10% of physical memory

Alteon NIC settings in the registry:
- StatTicks=0, Number of ticks between stat updates, default 100000
- SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 100000
- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 100000
- SendCoalMax=10, sets number of frames sent before notifying host, default 20
- RecvCoalMax=80, sets number of frames received before notifying host, default 20
- RxFlowControl=0(off), receive flow control, default 1 (on)

HTTP API Notes

ISAPI for IIS5.0 compiled with VC++ 6.0

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Notes/Tuning Information (Continued)

Hardware Notes

1 disk for OS and pagefile, 4 disks striped for web pages and logfile