

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=0xffff, 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 satisfied, 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

For more
Information
Contact

SPEC

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http://www.spec.org

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Notes/Tuning Information (Continued)

Hardware Notes

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