SPECweb99 Result

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IBM: IBM Netfinity 7600
Microsoft: IIS 5.0

SPECweb99 = 690

Test Date: Mar-2000
Tester: IBM

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

Hardware

Vendor:	IBM
Model:	IBM Netfinity 7600
Processor:	550MHz Pentium III
# Processors:	1 core, 1 chip, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	2048KB
Other Cache:	none
Memory:	4GB
Disk Subsystem:	5 X 9GB (Seagate ST39103LC)
Disk Controllers:	IBM SERVRAID 3H
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:	Mar-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=400000, sets maximum number of TIME_WAIT tcbs to 400000
- Tcpip/Parameters/MaxUserPort=0xfffe, sets maximum open ports to 65534
- Tcpip/Parameters/TcpWindowSize=17520, sets TCP send/receive window size, default 8192
- NDIS/Parameters/ProcessorAffinityMask=0, The initiating processor services DPC events, default 0xffffffff
- Inetinfo/Parameters/ListenBacklog=1000, default 10
- Inetinfo/Parameters/ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes
- Inetinfo/Parameters/AcceptExTimeout=0x1, sets time for accept ex socket to wait for receive, default 120

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 1000
- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 1000
- 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)
- 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.

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