

SPECweb99 Result

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IBM Corp.: Netfinity 5100
Microsoft: IIS 5.0

SPECweb99 = 746

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: 1 core, 1 chip, 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: 5
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, default 4
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default 240
- Tcpip/Parameters/TcpWindowSize=17520, sets TCP send/receive window size, default 8192
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120
- Inetinfo/Parameters/ListBacklog=1000, default 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 before notifying host, default 20
- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 1000
- RxFlowControl=0 (off), default 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