

# SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

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, 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

# SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

## 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