

# SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

IBM: Netfinity 5600  
Microsoft: IIS 5.0

SPECweb99 = 788  
Test Date: Jun-2000  
Tester: IBM

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

## Hardware

Vendor: IBM  
Model: Netfinity 5600  
Processor: 800 MHz 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: 4 X 9GB (Seagate ST39103LC)  
Disk Controllers: IBM ServeRaid 3L  
Other Hardware: 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: Jun-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 400,000  
- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 65,536 entries, default is 512  
- Tcpip/Parameters/MaxUserPort=0xffffe, sets maximum open ports to 65534  
- Tcpip/Parameters/NumTcbTablePartitions=16, sets number of independent TCB table segments, default 4  
- NDIS/Parameters/ProcessorAffinityMask=0, default 0xffffffff  
- Inetinfo/Parameters/ListenBacklog= 1000, default 25  
- Inetinfo/Parameters/ObjectCacheTTL=0xfffff, 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/MemCacheSize=1000, sets the cache size for IIS, default is 50% of available memory  
- Inetinfo/Parameters/MaxCachedFileSize=93000, sets the maximum file size (in bytes) that IIS will cache, default is 256KB  
Alteon NIC settings in registry  
- StatTicks=0, default 100000  
- SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 1000  
- RecvCoalTicks=10000 sets number of microsec before rcv buffers are returned to host, default 1000  
- SendCoalMax=30, sets number of frames sent before notifying host, default 20  
- RecvCoalMax=80, sets number of frames received before notifying host, default 20  
- RxFlowControl=0, default 1

### HTTP API Notes

IBM ISAPI v1.10 for IIS5.0 compiled with Intel Optimizing Compiler 4.0, code optimization = Pentium Pro

For more  
Information  
Contact

SPEC

info@spec.org  
http://www.spec.org

# SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

## Notes/Tuning Information (Continued)

### Hardware Notes

2 disk RAID 0 for OS and logs, 2 disk RAID 0 for web pages