

# 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=0xffff, 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