

# SPECweb99 Result

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IBM: Netfinity 6000R  
Microsoft: IIS 5.0

SPECweb99 = 1582

Test Date: Jun-2000  
Tester: IBM

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

## Hardware

Vendor: IBM  
Model: Netfinity 6000R  
Processor: 700MHz Pentium III Xeon  
# Processors: 4 cores, 4 chips, 1 core/chip  
Primary Cache: 16KBI+16KBD on chip  
Secondary Cache: 2MB  
Other Cache: None  
Memory: 8GB  
Disk Subsystem: 1 CDROM, 8 9GB 10K RPM SCSI Drives  
Disk Controllers: IBM ServeRAID 3H  
Other Hardware: 2 Alteon ACEswitch 180 GbE Switches

## Software

Operating System: 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: W3SVC

## Test Sponsor

Test Date: Jun-2000  
Tested By: IBM  
SPEC License: 11

## Network

# of Controllers: 4  
Network Controllers: Alteon ACEnic PCI  
# of Nets: 4  
Type of Nets: Gigabit Ethernet  
Network Speed: 1000Mb/s  
MSL (sec): 30 (Non RFC1122)  
Time-Wait (sec): 60 (Non RFC1122)  
MTU: 1500

## Clients

# of Clients: 12  
Model: IBM IntelliStation Z Pro  
Processor: 450MHz Pentium III Xeon  
# of Processors: 2  
Memory: 256MB  
Network Controller: Alteon AceNIC  
Operating System: Microsoft Windows 2000 Professional  
Compiler: Microsoft VC++ v6.0

## 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=1000000, 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/MaxUserPort=0xffffe, sets maximum open ports to 65534  
- Tcpip/Parameters/NumTcbTablePartions=32, 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=0xffff, sets TCP send/receive window size to 65535, 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  
- Inetinfo/Parameters/MaxPoolThreads=1, maximum network request threads per processor, default 10.  
- Inetinfo/Parameters/PoolThreadLimit=4, maximum pool threads in system, default 2\*#MB  
- Inetinfo/Parameters/MemCacheSize=2000, maximum amount of memory that IIS will use for its file cache, default 50% of available memory  
- Inetinfo/Parameters/MaxCachedFileSize=550000, maximum size of file in bytes that can be placed in the cache, default 262144  
Alteon NIC settings:  
- Rx Flow Control=Off, default On  
Network interrupts affinized one NIC per processor using Microsoft Intfiltr

### 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 disk for OS & pagefiles, 4 disks for web pages, 3 disks for log file

### Client Notes

Tcpip/Parameters/MaxUserPort = 0xffff, sets maximum open port to 65534