# SPECweb99 Result

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## IBM: Netfinity 6000R
## Microsoft: IIS 5.0

SPECweb99 = 1182

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: | 2 cores, 2 chips, 1 core/chip |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 2MB |
| Other Cache: | None |
| Memory: | 4GB |
| Disk Subsystem: | 1 CDROM, 10 9GB 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: | 2 |
| Network Controllers: | Alteon ACEnic PCI |
| # of Nets: | 2 |
| 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: | 8 |
| 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=0xfffe, 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 parameterto 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=1600, 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 affinitized 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 = 0xfffe, sets maximum open port to 65534