

# SPECweb99 Result

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Compaq Computer Corporation: ProLiant DL380  
Microsoft: IIS 5.0

SPECweb99 = 1098

Test Date: Aug-2000  
Tester: Mindcraft, Inc.

Hardware Avail: Jul-2000 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: N/A SPEC license #: 2

## Hardware

Vendor: Compaq Computer Corporation  
Model: ProLiant DL380  
Processor: 933EBMHz Pentium III  
# Processors: 2 cores, 2 chips, 1 core/chip  
Primary Cache: 16KBI+16KBD on chip  
Secondary Cache: 256KB on chip  
Other Cache: None  
Memory: 4 GB  
Disk Subsystem: 1 CD-ROM, 6x9GB 10,000RPM Ultra2 SCSI  
Disk Controllers: 1 IDE, 1 Integrated Smart Array Controller, Smart Array 4200  
Other Hardware: 1x100Base-TX embedded Network Adapter, 1 Alteon WebSystems ACEnic PCI 1000Base-SX

## Software

Operating System: Windows 2000 Server  
File System: NTFS  
Other Software: None

## HTTP Software

Vendor: Microsoft  
HTTP Software: IIS 5.0  
API: ISAPI, CGI  
Server Cache: None  
Log Mode: W3C Extended Log File Format

## Test Sponsor

Test Date: Aug-2000  
Tested By: Mindcraft, Inc.  
SPEC License: 2

## Network

# of Controllers: 1  
Network Controllers: Alteon WebSystems ACEnic PCI 1000Base-SX  
# of Nets: 1  
Type of Nets: Gigabit Ethernet  
Network Speed: 1,000 Mb/s  
MSL (sec): 30 (Non RFC1122)  
Time-Wait (sec): 60 (Non RFC1122)  
MTU: 1500

## Clients

# of Clients: 5  
Model: HP NetServer E60  
Processor: 550 MHz Pentium III  
# of Processors: 2  
Memory: 128 MB  
Network Controller: Alteon WebSystems ACEnic PCI 1000Base-SX  
Operating System: Microsoft Windows 2000 Professional  
Compiler: Microsoft Visual C/C++, Version 6, SP3

## Notes/Tuning Information

### SUT Notes

System: Set as file server (background services), the default  
Disks on Smart Array 4200 as 2 logical drives in RAID 0, 128 KB stripe, Rebuild priority low, 56MB Cache - 50% Read yand 50% write acceleration.  
Logical Drive 1: 2 disks, 10,411 MB, holds C:, the OS and IIS log files  
Logical Drive 2: 4 disks, 7,080 MB, holds D:, the Web server data files  
Embedded 100Base-TX network adapter was disabled for the test.  
IDE controller not used for the test.

### Operating System Notes

Tcpip registry tuning parameters (HKLM\System\CurrentControlSet\Services\Tcpip\Parameters\):  
--MaxFreeTWTcbs=248000, sets maximum number of TIME\_WAIT tcbs to 248,000.  
--MaxHashTableSize=0x2000, sets TCB hash table size to 8,192 entries, default is 512.  
--MaxUserPort=0xffff, sets maximum open ports to 65534.  
--NumTcbTablePartitions=16, sets number of independent TCB table segments, default 4.  
--TcpTimedWaitDelay=60, sets TIME\_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.  
--TcpWindowSize=65535, sets TCP send/receive window size, default 8192.  
IIS registry tuning parameters (HKLM\System\CurrentControlSet\Services\Inetinfo\Parameters\):  
--ListenBacklog=1000, default 25.  
--LogFileFlushInterval=60, forces flush every 60 seconds, default 300.  
--ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes.  
--MaxPoolThreads=20, maximum network request threads per processor, default 4.  
--MemCacheSize=2000, maximum amount of memory IIS will use for its file cache in MB, default 50% of available memory.  
--MaxCachedFileSize=950000, maximum file size kept in IIS cache in bytes, default 262,144 bytes (256KB).  
Alteon NIC registry tuning parameters (HKLM\System\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\0007):  
--RecvCoalMax=80, sets number of frames received before notifying host, default 20.

For more  
Information  
Contact

SPEC

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http://www.spec.org

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## Notes/Tuning Information (Continued)

### Operating System Notes (Continued)

- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 1,000.
- RxFlowControl=0 (off), default 1 (on).
- SendCoalMax=40, sets number of frames sent before notifying host, default 20.
- SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 1,000.
- StatTicks=0, default 100000.

### HTTP Software Notes

IIS: Set for more than 100,000 hits/day  
IIS Home Directory: Read and write access only  
cgi-bin directory: read and Scripts and Executable access, low application protection  
IIS Logging: W3C Extended logging, defaults plus bytes sent; minus: user agent, server port, server IP address, username  
Dynamic programs in /cgi-bin.

### HTTP API Notes

Microsoft ISAPI for IIS 5.0 compiled with Visual C++, Version 6.0, SP3, code optimization=Pentium Pro  
API and CGI programs are in mc05232000.zip

### Network Notes

Switch: Alteon ACEswitch 180

### Client Notes

on clients, set RecvCoalMax=40 (default=20)  
on clients, set RecvCoalTicks=5000 (default=1000)