

# SPECweb99 Result

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Hewlett-Packard: HP NetServer LT6000  
Microsoft: Internet Information Server 5.0

SPECweb99 = 925  
Test Date: May-2000  
Tester: Hewlett-Packard Company

Hardware Avail: Mar-2000 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: Feb-2000 SPEC license #: 3

## Hardware

Vendor: Hewlett-Packard  
Model: HP NetServer LT6000  
Processor: 550 MHz Pentium III Xeon  
# Processors: 2 cores, 2 chips, 1 core/chip  
Primary Cache: 16KBI+16KBD on chip  
Secondary Cache: 2MB on chip  
Other Cache: None  
Memory: 4 GB  
Disk Subsystem: 1 CDR, 7 9GB 10K RPM  
Disk Controllers: 1 Integrated HP Netraid  
Other Hardware: None

## Software

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

## HTTP Software

Vendor: Microsoft  
HTTP Software: Internet Information Server 5.0  
API: ISAPI  
Server Cache: See Notes  
Log Mode: W3C Extended Log File

## Test Sponsor

Test Date: May-2000  
Tested By: Hewlett-Packard Company  
SPEC License: 3

## Network

# of Controllers: 1  
Network Controllers: Alteon ACEnic 1000-SX  
# of Nets: 1  
Type of Nets: Gigabit Ethernet  
Network Speed: 1Gb/sec  
MSL (sec): 30 (Non RFC1122)  
Time-Wait (sec): 60 (Non RFC1122)  
MTU: 1500

## Clients

# of Clients: 8  
Model: HP NetServer LPr  
Processor: 550 MHz Pentium III  
# of Processors: 2  
Memory: 256MB  
Network Controller: Alteon ACEnic 1000-SX  
Operating System: Windows 2000  
Compiler: Microsoft C++ Version 6

## Notes/Tuning Information

### SUT Notes

IIS settings: maximum performance.  
IIS Home Directory: Access for Read & Write, Scripts & Executables.  
IIS Virtual Directory specw99 points back to web server root, low application protection.  
IIS Logging: W3C Extended logging, defaults plus bytes sent.

### Operating System Notes

Tuning parameters:  
TCP/IP Settings in registry:  
- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 8,192 entries, default is 512.  
- 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.  
- Tcpip/Parameters/NumTcbTablePartitions = 16, sets number of independent TCB table segments, default 4.  
IIS Settings in Registry:  
- Inetinfo/Parameters/ObjectCacheTTL=0xfffff, sets IIS object cache timeout in seconds, default 10 minutes.  
- Inetinfo/Parameters/ListenBacklog=1000, default 25.  
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120.  
- Inetinfo/Parameters/MaxPoolThreads=20, maximum network request threads per processor, default 10.  
- Inetinfo/Parameters/LogFileFlushInterval=60, forces flush every 60 seconds, default 300.

Alteon NIC settings in registry:  
- StatTicks=0, default 100000.

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## Notes/Tuning Information (Continued)

### Operating System Notes (Continued)

- SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 100000.
- RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 100000.
- RecvCoalMax=80, sets number of frames received before notifying host, default 20.
- RxFlowControl=0 (off), default 1.

### HTTP API Notes

Microsoft ISAPI for IIS 5.0 compiled with VC++ 6.0, code optimization = Pentium Pro.

### Hardware Notes

One 9GB 10KRPM disk for OS, one for paging, and 5 striped for web pages.