# SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

## Hewlett-Packard Co.: HP NetServer LP 1000r
## Microsoft: Microsoft Internet Information Server 5.0

SPECweb99 = 1117

Test Date: Dec-2000
Tester: Hewlett-Packard Company

| Hardware Avail: | Jan-2001 | OS Avail: | Feb-2000 | HTTP Software Avail: | Feb-2000 | Sup. Software Avail: | -- | SPEC license #: | 3 |
|---|---|---|---|---|---|---|---|---|---|

### Hardware

| | |
|---|---|
| Vendor: | Hewlett-Packard Co. |
| Model: | HP NetServer LP 1000r |
| Processor: | Intel Pentium III at 933MHz |
| # 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: | 3 18GB 15K Ultra3 SCSI |
| Disk Controllers: | Integrated Ultra3 SCSI |
| Other Hardware: | none |

### Software

| | |
|---|---|
| Operating System: | Windows 2000 Advanced Server |
| File System: | NTFS |
| Other Software: | none |

### HTTP Software

| | |
|---|---|
| Vendor: | Microsoft |
| HTTP Software: | Microsoft Internet Information Server 5.0 |
| API: | ISAPI |
| Server Cache: | None |
| Log Mode: | W3C Extended Log Fileat |

### Test Sponsor

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

### Network

| | |
|---|---|
| # of Controllers: | 1 |
| Network Controllers: | hp procurve routing switch 9308M |
| # of Nets: | 1 |
| Type of Nets: | Gigabit Ethernet |
| Network Speed: | 1 gigabit/second |
| MSL (sec): | 30 (Non RFC1122) |
| Time-Wait (sec): | 60 (Non RFC1122) |
| MTU: | 1500 |

### Clients

| | |
|---|---|
| # of Clients: | 5 |
| Model: | HP Kayak XU |
| Processor: | Intel Pentium II at 550MHz |
| # of Processors: | 2 |
| Memory: | 256MB |
| Network Controller: | Alteon |
| Operating System: | Microsoft Windows 2000 Pro |
| 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 spec99 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=0x2000, 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 = 0xfffe, 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.

Intel Pro/1000 NIC settings in registry:
- MaxFrameSIze=1514, default.

© Copyright 1999, Standard Performance Evaluation Corporation

## Notes/Tuning Information (Continued)

### Operating System Notes (Continued)

- NumTxDescriptors=768, Number of buffers available for transmit acceleration, default 128.

### HTTP API Notes

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

### Hardware Notes

One 18GB 15KRPM disk for OS and paging, and 2 18GB 15KRPM OS striped for web pages.

### Other Notes

none