SPECweb99 Result

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

SPECweb99 = 1420

Test Date: Jul-2001
Tester: Hewlett-Packard Company

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

Hardware

Vendor:	Hewlett-Packard Co.
Model:	HP Netserver LP 1000r
Processor:	Intel Pentium III/512 at 1.26Ghz
# Processors:	2 cores, 2 chips, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	512KB 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 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 File Format

Test Sponsor

Test Date:	Jul-2001
Tested By:	Hewlett-Packard Company
SPEC License:	3

Network

# of Controllers:	1
Network Controllers:	Intel Pro/1000F Server Adapter
# of Nets:	1
Type of Nets:	Gigabit Ethernet
Network Speed:	1 Gb/s
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.

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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 15K RPM disk for OS, IIS logs and paging, and 2 striped for web pages.