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

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 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/MaxFreeTcbs=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=0xffffffff, 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/LogFlushInterval=60, forces flush every 60 seconds, default 300.

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