

SPECweb99 Result

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Compaq Computer Corporation: ProLiant DL360
Microsoft: IIS 5.0

SPECweb99 = 1020

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

Hardware Avail: Jun-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 DL360
Processor: 800EBMHz 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, 2x9GB 10,000RPM Ultra2 SCSI
Disk Controllers: 1 IDE, 1 Compaq Integrated Smart Array Controller
Other Hardware: 2x100Base-TX embedded Network Adapters
1 HP ProCurve 4000M switch

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: May-2000
Tested By: Mindcraft, Inc.
SPEC License: 2

Network

of Controllers: 1
Network Controllers: Alteon 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: 8
Model: PC-Compatible, Abit BM-6 motherboard
Processor: 466 MHz Celeron
of Processors: 1
Memory: 128 MB
Network Controller: Intel Pro/100+ Management Adapter
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 in RAID 0, 128 KB stripe, Rebuild priority low, 8188 KB RAM - 100% Read Cache.
Defragmented disks before final test run.
Embedded 100Base-TX network adapters were disabled for the test.
IDE controller not used for the test.

Operating System Notes

Tcpip registry tuning parameters (HKLM\System\CurrentControlSet\Services\Inetinfo\Parameters):
MaxFreeTWTcbs=220000, sets maximum number of TIME_WAIT tcbs to 220,000.
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\Tcpip\Parameters):
AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120.
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=3500, 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):
IntCount=10000, default 1,000. It is the total number of "loops" DPC would process for events like receives and transmits before yielding to the OS.
RecvCoalMax=80, sets number of buffers received before notifying host, default 20.
RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 1,000.

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Notes/Tuning Information (Continued)

Operating System Notes (Continued)

RxFlowControl=0 (off), default 1 (on).

SendCoalMax=40, sets number of buffers 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

CGI program is in Mindcraft-20000526-CGI.zip

Network Notes

Switch: HP ProCurve 4000M with clients connected to 100Base-TX ports, server connected to 1000Base-SX port

Client Notes

Set NIC Coalesce Buffers=32, Receive Buffers=1024, Transmit Control Blocks=64