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
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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 (HKLMSystemCurrentControlSetServicesInetinfoParameters\
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=0xfffe, 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 (HKLMSystemCurrentControlSetServicesTcpipParameters\
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 (HKLMSystemCurrentControlSetControlClass{4D36E972-E325-11CE-BFC1-08002BE10318} 7):
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