

SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

Fujitsu Siemens Computer: Primergy L200
Microsoft: IIS 5.0

SPECweb99 = 1660

Test Date: Feb-2002
Tester: Fujitsu Siemens

Hardware Avail: Feb-2002 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: Feb-2000 SPEC license #: 22

Hardware

Vendor: Fujitsu Siemens Computer
Model: Primergy L200
Processor: 1.40GHz Pentium III
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 512KB
Other Cache: none
Memory: 4 GB
Disk Subsystem: 1x8.5GB Fujitsu MAJ3091MC
2x18 GB Seagate ST318451LC
Disk Controllers: LSI 53C1010-66
Other Hardware: 3Com SuperStackII Switch 9300SX

Software

Operating System: MS Windows 2000 Advanced Server
SP2 (May-2001)
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: Feb-2002
Tested By: Fujitsu Siemens
SPEC License: 22

Network

of Controllers: 1
Network Controllers: Intel PRO/1000 XF 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: 8
Model: Scenic 800
Processor: 550MHz Pentium III
of Processors: 1
Memory: 128 MB
Network Controller: Intel Pro/1000
Operating System: MS Windows 2000 Professional
Compiler: MS Visual C++ 6.0

Notes/Tuning Information

SUT Notes

System properties: Performance options
- Optimize performance for applications, default: background services
NIC interrupt bound to CPU 1

Operating System Notes

Intel PRO/1000 XF Server Adapter
[HKLM\System\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\0009]
- NumCoalesceBuffers=768, default 128
- FlowControl=0 (off), default 1
- NumRxDescriptors=768, default 256
- NumTxDescriptors=4096, default 256
- ChecksumRxTcp=1 (on), default 0

TCP/IP registry tuning parameters [HKLM\System\CurrentControlSet\Services\Tcpip\Parameters]:
- MaxHashTableSize=0x4000, sets TCB hash table size to 16384 entries, default is 512.
- TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.
- MaxFreeTwTcbs=400000, sets maximum number of TIME_WAIT tcbs to 400,000.
- MaxFreeTcbs=0x16000, sets number of cached (pre-allocated) TCBs, default 1000
- MaxUserPort=0xfffe, sets maximum open ports to 65534.
- TcpWindowSize=65535, sets TCP send/receive window size, default 8192.
- NumTcbTablePartitions=32, sets number of independent TCB table segments, default 4.
NDIS registry tuning parameters [HKLM\System\CurrentControlSet\Services\NDIS\Parameters]:
- ProcessorAffinityMask=0, default 1 (any processor)

SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

Operating System Notes (Continued)

- IIS registry tuning parameters [HKLM\System\CurrentControlSet\Services\Inetinfo\Parameters\]:
- ObjectCacheTTL=0xffffffff, sets IIS object cache timeout, default 10 minutes
 - ListenBacklog=1000, default 25.
 - AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120.
 - LogFileFlushInterval=60, forces flush every 60 seconds, default 300.
 - MaxPoolThreads=2, maximum network request threads per processor, default 10.
 - PoolThreadLimit=8, maximum pool threads in system, default 2*#MB.
 - MemCacheSize=2000, sets the cache size for IIS, default is 50% of available memory.
 - MaxCachedFileSize=93000, sets the maximum file size (in bytes) that IIS will cache, default is 256KB.

HTTP Software Notes

- IIS: Home directory: Access: read,write
IIS: Execute permissions: Scripts and Executable
IIS: Application protect: low (IIS process)
IIS: Logging: W3C Extended Log File Format
IIS: default: plus bytes send
IIS: minus user agent, server port, server IP, username
IIS: More than 100,000 hits/day

HTTP API Notes

- Microsoft ISAPI V1.1 for IIS 5.0 compiled with VC++ 6.0, code optimization = Pentium Pro
Archived in 'Fujitsu-Siemens-20020201-ISAPI.zip'
Archived in 'Fujitsu-Siemens-20020201-CGI.zip'

Hardware Notes

- 1 disk for OS, pagefile, applications, data; default NTFS
2 disk for 'Default Web Site' (wwwroot, file_set, logs),RAID0

Client Notes

- Intel PRO/1000 NIC settings
- Coalesce Buffers=512, default 128
 - Fast Transmit=on, default off
 - Flow Control=off, default on
 - Offload Receive TCP checksum=on, default off
 - Receive Descriptors=768, default 160
 - Transmit Descriptors=512, default 256

- TCP/IP registry tuning parameters [HKLM\System\CurrentControlSet\Services\Tcpip\Parameters\]:
- MaxHashTableSize=0x4000, sets TCB hash table size to 16384 entries, default is 512.
 - TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.
 - MaxFreeTwTcbs=400000, sets maximum number of TIME_WAIT tcbs to 400,000.
 - MaxFreeTcbs=0x16000, sets number of cached (pre-allocated) TCBs, default 1000
 - MaxUserPort=0xfffe, sets maximum open ports to 65534.
 - TcpWindowSize=65535, sets TCP send/receive window size, default 8192.
 - NumTcbTablePartitions=32, sets number of independent TCB table segments, default 4.