SPECweb99 Result

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Fujitsu Siemens Computer: Primergy L200
Microsoft: IIS 5.0

SPECweb99 = 1159

Test Date: Jan-2002
Tester: Fujitsu Siemens

Hardware Avail:	Nov-2001	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:	1.26GHz Pentium III/T
# Processors:	1 core, 1 chip, 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
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:	Jan-2002
Tested By:	Fujitsu Siemens
SPEC License:	22

Network

# of Controllers:	1
Network Controllers:	3Com Gigabit Etherlink Server NIC(3C985B-SX)
# 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:	7
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

Operating System Notes

3Com Gigabit Etherlink Server
- StatTicks=0, default 100000.
- SendCoalTicks=10000, sets the number of microsec before send buffers are returned to host, default 1000.
- RecvCoalTicks=10000, sets the number of microsec before recv buffers are given to host, default 1000.
- SendCoalMax=30, sets number of frames sent before notifying host, default 20.
- RecvCoalMax=80, sets number of frames received before notifying host, default 20.
- RxFlowControl=0 (off), default 1.

TCP/IP registry tuning parameters (HKLMSystemCurrentControlSetServicesTcpipParameters\
- MaxHashTableSize=0x2000, 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=0x8000, 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 = 16, sets number of independent TCB table segments, default 4.

IIS registry tuning parameters (HKLMSystemCurrentControlSetServicesInetinfoParameters\
- 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.

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Notes/Tuning Information (Continued)

Operating System Notes (Continued)

- LogFileFlushInterval=60, forces flush every 60 seconds, default 300.
- MaxPoolThreads=20, maximum network request threads per processor, default 10.
- PoolThreadLimit=20, 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
Archieved in 'Fujitsu-Siemens-20020201-ISAPI.zip'
Archieved in 'Fujitsu-Siemens-20020201-CGI.zip'

Hardware Notes

1 disk for OS, pagefile, applications, data; default NTFS
2 disk for 'Default Web Site' (cgi_bin, 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
- Receive Descriptors=768, default 160
- Transmit Descriptors=512, default 256