

# SPECweb99 Result

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Fujitsu Siemens Computer: Primergy L200  
Microsoft: IIS 5.0

SPECweb99 = 1340

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: 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  
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

### 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=0xffff, 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.

IIS registry tuning parameters [HKLM\System\CurrentControlSet\Services\Inetinfo\Parameters]:  
- ObjectCacheTTL=0xffffffff, sets IIS object cache timeout, default 10 minutes  
- ListenBacklog=1000, default 25.

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## Notes/Tuning Information (Continued)

### Operating System Notes (Continued)

- 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-CGL.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

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