

# SPECweb99 Result

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Advanced Micro Devices: Asus A7M266-D/AMD Athlon MP  
Microsoft: IIS 5.0

SPECweb99 = 1585

Test Date: Feb-2002  
Tester: Advanced Micro Devices

Hardware Avail: Mar-2002 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: Feb-2000 SPEC license #: 49

## Hardware

Vendor: Advanced Micro Devices  
Model: Asus A7M266-D/AMD Athlon MP  
Processor: Athlon MP 1900+, 1.6 Ghz  
# Processors: 2 cores, 2 chips, 1 core/chip  
Primary Cache: 64KBI+64KBD on chip  
Secondary Cache: 256KB  
Other Cache: None  
Memory: 3 GB pc2100 DDR  
Disk Subsystem: 4 18GB 15K Ultra160 SCSI  
Disk Controllers: AMI Elite 1600  
Other Hardware: 1 Extreme Summit 7i Gigabit Switch

## Software

Operating System: Windows 2000 Advanced Server  
File System: NTFS  
Other Software: SP2

## HTTP Software

Vendor: Microsoft  
HTTP Software: IIS 5.0  
API: ISAPI  
Server Cache: None  
Log Mode: W3C Extended Log File Format

## Test Sponsor

Test Date: Feb-2002  
Tested By: Advanced Micro Devices  
SPEC License: 49

## Network

# of Controllers: 1  
Network Controllers: Intel Gigabit Pro 1000F  
# 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: 5  
Model: Dell PE1400  
Processor: Intel Pentium III 800MHz  
# of Processors: 2  
Memory: 256MB  
Network Controller: Intel Gigabit Pro 1000F  
Operating System: Windows 2000 Professional  
Compiler: Microsoft Visual C++ 6.0

## Notes/Tuning Information

### SUT Notes

IIS settings: maximum performance.  
IIS Home Directory: Access for Read & Write, Scripts & Executables.  
IIS Virtual Directory spec99 points back to web server root, low app protection.

### Operating System Notes

Tuning parameters:  
TCPIP/Parameters/NumTcbTablePartitions= 16, sets number of independent TCB table segments, default 4.  
TCPIP/Parameters/MaxFreeTwTcbs= 400000, sets maximum number of Time\_Wait tcbs to 400,000.  
TCPIP/Parameters/TcpTimedWaitDelay= 60, sets TIME\_WAIT parameter to 60 seconds(non-RFC1122), default 240.  
TCPIP/Parameters/MaxHashTableSize= 0x2710, sets TCB hash table size to 10000 entries, default 512.  
TCPIP/Parameters/TCPWindowSize= 17520, sets TCP send/receive window size, default 8192.  
TCPIP/Parameters/MaxUserPort= 0xfffe, sets maximum open ports to 65534.  
Inetinfo/Parameters/AcceptExTimeout= 1, sets time for accept ex socket to wait for receive, default 120.  
Inetinfo/Parameters/LogFileFlushInterval= 60, forces flush every 60 seconds, default 300.  
Inetinfo/Parameters/MaxPoolThreads= 20, maximum network request threads per processor, default 10.  
Inetinfo/Parameters/ObjectCacheTTL= 0xffff, sets IIS object cache timeout, default 10 minutes.  
Inetinfo/Parameters/ListenBackLog= 1000, default 25.  
AFD/Parameters/TransmitWorker= 32, adjusts system default thread, default 16.  
Control/FileSystem/NtfsDisableLastAccessUpdate= 1, prevents updating LastAccess time stamp on NTFS directories, default 0.  
Control/SessionManager/MemoryManagement/IoPageLockLimit= 65536, increases I/O Pages limit to 64MB, default 512KB.  
NDIS/Parameters/ProcessorAffinityMask= 0, forces processor that handled interrupt to also handle that DPC, default any processor.  
Intel nic registry settings:  
NumTxDescriptors= 768, Number of descriptors to send packets, default 256.  
NumCoalesceBuffers= 768, Number of coalesce buffers for transmit acceleration, default 128.  
ChecksumRxTcp= 1, offloads RX checksums to nic, default 0.  
FlowControl= 0, Disables flow control default On (1).

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## Notes/Tuning Information (Continued)

### Hardware Notes

1 18GB 15Krpm disk for OS and logs,3 18GB 15Krpm disks for fileset.

### Other Notes

SUT requires an Asus A7M266-D motherboard, an ATX 4 hd capable case and an NSpire ps Model NSP-420P4B. Intfltr to bind NIC IRQ to CPU0.