

SPECweb99 Result

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IBM: Netfinity 7600
Microsoft: IIS 5.0

SPECweb99 = 1182

Test Date: Jun-2000
Tester: IBM

Hardware Avail: May-2000 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: Feb-2000 SPEC license #: 11

Hardware

Vendor: IBM
Model: Netfinity 7600
Processor: 700 MHz Pentium III Xeon
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 2MB
Other Cache: none
Memory: 8GB
Disk Subsystem: 7 X 9GB (Seagate ST39103LC)
Disk Controllers: IBM ServeRaid 3H
Other Hardware: 2 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System: Microsoft Windows 2000 Advanced Server
File System: NTFS
Other Software: none

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: Jun-2000
Tested By: IBM
SPEC License: 11

Network

of Controllers: 2
Network Controllers: Alteon ACEnic PCI
of Nets: 2
Type of Nets: Gigabit Ethernet
Network Speed: 1Gb/s
MSL (sec): 30 (Non RFC1122)
Time-Wait (sec): 60 (Non RFC1122)
MTU: 1500

Clients

of Clients: 6
Model: Intellistation Z Pro
Processor: 450Mhz Pentium II Xeon
of Processors: 2
Memory: 256MB
Network Controller: Alteon ACEnic PCI
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 application protection

Operating System Notes

Tuning parameters:
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240
- Tcpip/Parameters/MaxFreeTwtcb=400000, sets maximum number of TIME_WAIT tcbs to 400,000
- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 65,536 entries, default is 512
- Tcpip/Parameters/MaxUserPort=0xffff, sets maximum open ports to 65534
- Tcpip/Parameters/NumTcbTablePartitions=32, sets number of independent TCB table segments, default 4
- Inetinfo/Parameters/ListenBacklog= 4500, default 25
- Inetinfo/Parameters/ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes
- Inetinfo/Parameters/AcceptExTimeout=0x1, sets time for accept ex socket to wait for receive, default 120
- Inetinfo/Parameters/MemCacheSize=2000, sets the cache size for IIS, default is 50% of available memory
- Inetinfo/Parameters/MaxCachedFileSize=1000000, sets the maximum file size (in bytes) that IIS will cache, default is 256KB
- Inetinfo/Parameters/MaxPoolThreads=2, sets the number of threads per processor, default 4
- Inetinfo/Parameters/PoolThreadLimit=8, sets the maximum number of threads per system, default 2*(amount of memory in MB)
Alteon NIC settings in registry
- StatTicks=0, default 100000
- RxFlowControl=0, default 1
Network adapters affinity 1 per CPU

HTTP API Notes

IBM ISAPI v1.10 for IIS5.0 compiled with Intel Optimizing Compiler 4.0, code optimization = Pentium Pro

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Notes/Tuning Information (Continued)

Hardware Notes

1 disk for OS, 2 disk RAID 0 for logs, 4 disk RAID 0 for web pages