

SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

IBM: Netfinity 6000R
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: -- SPEC license #: 11

Hardware

Vendor: IBM
Model: Netfinity 6000R
Processor: 700MHz Pentium III Xeon
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 2MB
Other Cache: None
Memory: 4GB
Disk Subsystem: 1 CDROM, 10 9GB SCSI Drives
Disk Controllers: IBM ServeRAID 3H
Other Hardware: 2 Alteon ACEswitch 180 GbE Switches

Software

Operating System: 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: W3SVC

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: 1000Mb/s
MSL (sec): 30 (Non RFC1122)
Time-Wait (sec): 60 (Non RFC1122)
MTU: 1500

Clients

of Clients: 8
Model: IBM IntelliStation Z Pro
Processor: 450MHz Pentium III Xeon
of Processors: 2
Memory: 256MB
Network Controller: Alteon AceNIC
Operating System: Microsoft Windows 2000 Professional
Compiler: Microsoft VC++ v6.0

Notes/Tuning Information

SUT Notes

IIS settings: Maximum Performance
IIS Home Directory: access for Read & Write, Scripts & Executables
IIS Virtual Directory sprc99 points back to web server root, low application protection
IIS Logging: W3C Extended logging, defaults plus bytes sent

Operating System Notes

Tuning Parameters:
- Tcpip/Parameters/MaxFreeTwTcbs=1000000, sets maximum number of TIME_WAIT tcbs to 400,000
- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 65,536 entries, default 512
- Tcpip/Parameters/MaxUserPort=0xffffe, sets maximum open ports to 65534
- Tcpip/Parameters/NumTcbTablePartions=32, sets number of independent TCB table segments, default 4
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default 240
- Tcpip/Parameters/TcpWindowSize=0xffff, sets TCP send/receive window size to 65535, default 8192
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120
- Inetinfo/Parameters/ListBacklog=1000, default 25
- Inetinfo/Parameters/LogFileFlushInterval=60, forces flush every 60 seconds, default 300
- Inetinfo/Parameters/ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes
- Inetinfo/Parameters/MaxPoolThreads=1, maximum network request threads per processor, default 10.
- Inetinfo/Parameters/PoolThreadLimit=4, maximum pool threads in system, default 2*#MB
- Inetinfo/Parameters/MemCacheSize=1600, maximum amount of memory that IIS will use for its file cache, default 50% of available memory
- Inetinfo/Parameters/MaxCachedFileSize=550000, maximum size of file in bytes that can be placed in the cache, default 262144
Alteon NIC settings:
- Rx Flow Control=Off, default On
Network interrupts affinized one NIC per processor using Microsoft Intfiltr

HTTP API Notes

Microsoft ISAPI for IIS 5.0 compiled with VC++6.0 code optimization=Pentium Pro

SPECweb99 Result

© Copyright 1999, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

Hardware Notes

1 disk for OS & pagefiles, 4 disks for web pages, 3 disks for log file

Client Notes

Tcpip/Parameters/MaxUserPort = 0xffff, sets maximum open port to 65534