

SPECweb99 Result

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Dell: PowerEdge 4400/800
Microsoft: IIS 5.0

SPECweb99 = 1060

Test Date: Jun-2000
Tester: Dell

Hardware Avail: Apr-2000 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: Feb-2000 SPEC license #: 55

Hardware

Vendor: Dell
Model: PowerEdge 4400/800
Processor: 800MHz Pentium III Xeon
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 256KB(I+D) ATC
Other Cache: None
Memory: 4 GB
Disk Subsystem: 5 9GB 10KRPM drives
Disk Controllers: Onboard Adaptec AIC-7899 SCSI
Other Hardware: 1 Alteon ACEswitch 180

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: W3C Extended Log File Format

Test Sponsor

Test Date: Jun-2000
Tested By: Dell
SPEC License: 55

Network

of Controllers: 1
Network Controllers: Alteon ACEnic 1000-SX
of Nets: 1
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: 7
Model: Dell Precision 410
Processor: 450MHz Pentium II
of Processors: 2
Memory: 128MB
Network Controller: Alteon ACEnic 1000-SX
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.
IIS Logging: W3C Extended logging, defaults plus bytes sent.

Operating System Notes

Tuning parameters:
- Tcpip/Parameters/MaxHashTableSize=0x2000, sets TCB hash table size to 8,192 entries, default 512.
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default 240.
- Tcpip/Parameters/MaxFreeTwTcbs=400000, sets maximum number of TIME_WAIT TCBS to 400,000.
- Tcpip/Parameters/MaxUserPort = 0xffff, sets maximum open ports to 65534.
- Tcpip/Parameters/TcpWindowSize = 65535, sets TCP send/receive window size, default 8192.
- Tcpip/Parameters/NumTcbTablePartitions = 32, sets number of independent TCB table segments, default 4.
- Inetinfo/Parameters/ObjectCacheTTL=0xffff, sets IIS object cache timeout, default 10 minutes
- Inetinfo/Parameters/ListenBacklog=1000, default 25.
- Inetinfo/Parameters/MemCacheSize=2000, sets IIS cache to 2 gigabytes, default 50% of available memory.
- Inetinfo/Parameters/MaxCachedFileSize=1000000, sets max file size IIS caches to 1,000,000 bytes, default 256KB.
- Inetinfo/Parameters/MaxPoolThreads=20, maximum network request threads per processor, default 10.
- Inetinfo/Parameters/PoolThreadLimit=20, maximum pool threads in system, default 2*(amount of memory in MB).
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120.
Alteon NIC registry settings:
- StatTicks=0, default 100000.
- RxFlowControl=0 (off), default 1
Network interrupts affinized one per CPU

HTTP API Notes

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

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Notes/Tuning Information (Continued)

Hardware Notes

1 disk for OS and logs, 4 disk software RAID0 stripe for file set.