

SPECweb99 Result

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Dell: PowerApp.web 120
Microsoft: Internet Information Server 5.0

SPECweb99 = 1159

Test Date: Jan-2001
Tester: Dell

Hardware Avail: Apr-2001 OS Avail: Feb-2000 HTTP Software Avail: Feb-2000 Sup. Software Avail: -- SPEC license #: 55

Hardware

Vendor: Dell
Model: PowerApp.web 120
Processor: 933MHz Pentium III
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 256KB ATC
Other Cache: None
Memory: 4 GB
Disk Subsystem: 1 9GB 10K RPM, 2 36GB 10KRPM
Disk Controllers: Onboard Adaptec AIC-7899 SCSI
Other Hardware: 1 Alteon ACEswitch 180

Software

Operating System: Windows Powered Appliance Software
File System: NTFS
Other Software: None

HTTP Software

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

Test Sponsor

Test Date: Jan-2001
Tested By: Dell
SPEC License: 55

Network

of Controllers: 1
Network Controllers: Intel PRO/1000 SC-Fiber
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: 5
Model: Dell Precision 410
Processor: 450MHz Pentium II
of Processors: 2
Memory: 128MB
Network Controller: Alteon AceNIC 1000SX
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

- IntFilter tool used to bind NIC IRQ to first CPU.
- Tuning parameters:
- AFD/Parameters/TransmitWorker = 32, adjusts system default thread, default 16.
 - Control/FileSystem/NtfsDisableLastAccessUpdate = 1, prevents updating LastAccess time stamp on NTFS directories, default 0.
 - Inetinfo/Parameters/ObjectCacheTTL = 0xffff, sets IIS object cache timeout, default 10 minutes.
 - Inetinfo/Parameters/ListenBackLog = 1000, default 25.
 - Inetinfo/Parameters/AcceptExTimeout = 1, sets time for accept ex socket to wait for receive, default 120.
 - Inetinfo/Parameters/MaxPoolThreads = 20, maximum network request threads per processor, default 10.
 - NDIS/Parameters/ProcessorAffinityMask = 0, forces processor that handled interrupt to also handle that DPC, default any processor.
 - Tcpiip/Parameters/MaxHashTableSize = 0x2000, sets TCB hash table size to 65,536 entries, default 512.
 - Tcpiip/Parameters/TcpTimedWaitDelay = 0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default 240.
 - Tcpiip/Parameters/MaxFreeTcbTcbs = 400000, sets maximum number of TIME_WAIT tcbs to 400,000.
 - Tcpiip/Parameters/MaxUserPort = 0xffff, sets maximum open ports to 65534.
 - Tcpiip/Parameters/TcpWindowSize = 17520, sets TCP send/receive window size, default 8192.
 - Tcpiip/Parameters/NumTcbTablePartitions = 16, sets number of independent TCB table segments, default 4.
- Intel NIC registry settings:
- NumTxDescriptors = 768, Number of buffers available for transmit acceleration, default 256.

HTTP API Notes

- Microsoft ISAPI for IIS 5.0 compiled with VC++ 6.0.

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Notes/Tuning Information (Continued)

Hardware Notes

One 9GB OS, pagefile and logs, 2 36GB 10KRPM disks striped for web pages.