

SPECweb99 Result

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Dell: PowerEdge 6400/700
Microsoft: Internet Information Server 5.0

SPECweb99 = 1598

Test Date: Apr-2000
Tester: Dell

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

Hardware

Vendor: Dell
Model: PowerEdge 6400/700
Processor: 700MHz Pentium III Xeon
Processors: 4 cores, 4 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 2MB(I+D) off chip
Other Cache: None
Memory: 8 GB
Disk Subsystem: 7 9GB 10KRPM drives
Disk Controllers: Dell PERC2
Other Hardware: 4 Alteon ACEswitch 180

Software

Operating System: Windows 2000 Advanced Server
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: Apr-2000
Tested By: Dell
SPEC License: 55

Network

of Controllers: 4
Network Controllers: Alteon AceNIC PCI
of Nets: 4
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: 20
Model: Dell Precision 410
Processor: 450MHz Pentium II
of Processors: 2
Memory: 128MB
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.
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 is 512.
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.
- Tcpip/Parameters/MaxFreeTwTcbs=1098000, sets maximum number of TIME_WAIT tcbs to 1,098,000.
- 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 in seconds, default 10 minutes
- Inetinfo/Parameters/ListenBacklog=1000, default 25.
- Inetinfo/Parameters/MemCacheSize=2000, sets IIS cache to 2000KB, default sized dynamically.
- Inetinfo/Parameters/MaxCachedFileSize=1000000, sets max file size IIS caches to 1,000,000 bytes, no default.
Network interrupts affinized one NIC per processor.

HTTP API Notes

Microsoft ISAPI for IIS 5.0 compiled with VC++ 6.0, code optimization = Pentium Pro.
Code same as Dell-19991214.zip in Dynamic API Sources directory.

Hardware Notes

One 9GB 10KRPM disk for OS and paging, 2 for logs, and 4 striped for web pages.

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Notes/Tuning Information (Continued)

Client Notes

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