

SPECweb99_SSL Result

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Hewlett-Packard Company: HP ProLiant DL360 G4p
Zeus Technology Limited: Zeus V4.2r4 (64 bit)

SPECweb99_SSL =2604

Test Date: Jun-2005
Tester: Hewlett-Packard Company

Hardware Avail: Apr-2005 OS Avail: Aug-2004 HTTPS Software Avail: Nov-2003 Sup. Software Avail: Nov-2003 SPEC license #: 3

Hardware

Vendor: Hewlett-Packard Company
Model: HP ProLiant DL360 G4p
Processor: 3.6GHz Intel Xeon
Processors: 2 cores, 2 chips, 1 core/chip (Hyper-Threading enabled)
Primary Cache: 12KBI+16KBD
Secondary Cache: 2MB L3
Other Cache: none
Memory: 12GB (6x2GB PC2-3200 DDR2)
Disk Subsystem: 2x72.8GB Ultra320 15Krpm
Disk Controllers: HP Smart Array 6i with 128MB BBWC
Other Hardware: 1xHP procurve 6108 switch

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP1
File System: ext2
Other Software: Intel e1000 v5.2.39

HTTPS Software

Vendor: Zeus Technology Limited
HTTPS Software: Zeus V4.2r4 (64 bit)
API: Zeus PEPP 0.9pre1 ISAPI for dynamic content
Server Cache: none
Log Mode: Binary Common Log Format

Test Sponsor

Test Date: Jun-2005
Tested By: Hewlett-Packard Company
SPEC License: 3

Network

of Controllers: 2
Network Controllers: HP NC7170
of Nets: 4
Type of Nets: Gigabit Ethernet
Network Speed: 1 Gb/s
MSL (sec): 30 (Non RFC1122)
Time-Wait (sec): 60 (Non RFC1122)
MTU: 1500

Clients

of Clients: 4
Model: HP ProLiant DL360 G3
Processor: 3.06GHz 1MB L3 cache Intel Xeon
of Processors: 2 cores, 2 chips, 1 core/chip
Memory: 1024MB
Network Controller: 2xIntegrated NC7781
Operating System: Windows Server 2003 Std. Edition
Compiler: Microsoft Visual C++ 6.0

Notes/Tuning Information

SUT Notes

1 drive RAID 0 used for OS and access log, 1 drive RAID 0 used for the file-set

Operating System Notes

File system mounted with noacl,noatime,nodiratime - no access control lists, no inode access time updating
irq_balancer daemon disabled, default enabled
Each NIC IRQ bound to a seperate logical CPU, default round-robin
Each NIC's TX queue length set to 40000, default 100
ulimit -n 12000, sets number of open files, default 1024

```
/proc/sys/net/ipv4/tcp_timestamps= 1 ,turns TCP timestamp support off, default 1
/proc/sys/net/ipv4/tcp_max_tw_buckets= 2000000 ,sets TCP time-wait buckets pool size, default 180000
/proc/sys/net/ipv4/tcp_rmem = 3000000 3000000 3000000 ,maximum TCP read-buffer space allocatable, default 4096 87380 174760
/proc/sys/net/ipv4/tcp_wmem= 3000000 3000000 3000000 ,maximum TCP write-buffer space allocatable, default 4096 16384 131072
/proc/sys/net/ipv4/tcp_mem= 3000000 3000000 3000000 ,maximum TCP buffer space allocatable, default 31744 32256 32768
/proc/sys/net/core/rmem_max= 10000000 ,maximum receive socket buffer size, default 65535
/proc/sys/net/core/rmem_default= 10000000 ,default receive socket buffer size, default 65535
/proc/sys/net/core/wmem_max= 10000000 ,maximum send socket buffer size, default 65535
/proc/sys/net/core/wmem_default= 10000000 ,default send socket buffer size, default 65535
/proc/sys/net/core/optmem_max= 10000000 ,default 10240
/proc/sys/fs/file-max= 350000 ,maximum number of open files, default 1024
Timer IRQ bound to logical processor #1, default round-robin
Storage IRQ bound to logical processor #0, default round-robin
TSO turned off on all 4 NICs, default on
```

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Notes/Tuning Information (Continued)

HTTPS Software Notes

tuning!bind_any no
tuning!cache_cooling_time 0
tuning!cache_files 282011
tuning!cache_files 384001
tuning!cache_flush_interval 180000
tuning!cache_large_file 1048576
tuning!cache_max_bytes 12884901888
tuning!cache_small_file 90000
tuning!cache_stat_expire 180000
tuning!cbuff_size 65536
tuning!clientfirst_optimise yes
tuning!keepalive yes
tuning!keepalive_max -1
tuning!keepalive_timeout 3600
tuning!listen_queue_size 8192
tuning!maxaccept 2048
tuning!modules!cgi!cleansize 0
tuning!modules!nsapi!enabled no
tuning!modules!stats!enabled no
tuning!sendfile no
tuning!sendfile_maxsize 0
tuning!sendfile_minsize 0
tuning!so_wbuff_size 1048576
tuning!softservers no
tuning!ssl_cbuff_size 32840
tuning!ssl_diskcache no
tuning!ssl_sessioncache_size 6037
tuning!unique_bind yes

HTTP API Notes

Dynamic API: HP-20020724-API.tgz
API configured with --ssl=yes

Client Notes

The alternate performance neutral alt.Win32 client was used.
Tcipip\Parameters\MaxUserPort=0xffff, sets maximum open ports to 65534
Tcipip\Parameters\TcpTimedWaitDelay=60, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default 240
Tcipip\Parameters\MaxFreeTWTcbs=100000, sets maximum number of TIME_WAIT tcbs to 100,000
Tcipip\Parameters\TcpWindowSize=65535, sets TCP receive window size, default 8192

Other Notes

Server kernel: default SLES 9 (2.6.5-7.139-smp)