

SPECweb99_SSL Result

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Compaq Computer Corp.: Alphaserver ES40 833
Zeus Ltd: Zeus 4.0r1

SPECweb99_SSL = 500

Test Date: Mar-2002
Tester: Compaq

Hardware Avail: Jan-2001 OS Avail: Sep-2001 HTTPS Software Avail: Aug-2001 Sup. Software Avail: Sep-2001 SPEC license #: 2

Hardware

Vendor: Compaq Computer Corp.
Model: Alphaserver ES40 833
Processor: 833 MHz 21264B
Processors: 4 cores, 4 chips, 1 core/chip
Primary Cache: 64KBI+64KBD on chip
Secondary Cache: 8MB off chip
Other Cache: none
Memory: 8 GB
Disk Subsystem: 9 x (COMPAQ BB00912301 9GB SCSI)
Disk Controllers: 3 x QLOGIC ISP1040B/V2 FW SCSI
Other Hardware: 1 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System: Compaq Tru64 UNIX V5.1A (Rev. 1885) Spiked
File System: UFS & AdvFS & mfs
Other Software: none

HTTPS Software

Vendor: Zeus Ltd
HTTPS Software: Zeus 4.0r1
API: ISAPI
Server Cache: none
Log Mode: Binary Log Format

Test Sponsor

Test Date: Mar-2002
Tested By: Compaq
SPEC License: 2

Network

of Controllers: 1
Network Controllers: 1 x DEGPA-SA
of Nets: 1
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: 3
Model: Compaq DS20E
Processor: 667MHz 21264
of Processors: 2
Memory: 1GB
Network Controller: DEGPA-SA
Operating System: Compaq Tru64 UNIX V5.1
Compiler: DEC C V6.3-028

Notes/Tuning Information

SUT Notes

Operating System Notes

OS Tuning parameters:

```
vm:  
swapdevice=/dev/disk/dsk8c,/dev/disk/dsk9c
```

```
vm_swap_eager = 0
```

```
proc:  
max_per_proc_address_space = 0x4000000000  
max_per_proc_data_size = 0x4000000000  
max_proc_per_user = 2048  
max_threads_per_user = 0  
per_proc_address_space = 0x4000000000  
per_proc_data_size = 0x4000000000  
maxusers = 16384
```

```
inet:  
ipqmaxlen = 2000  
ipqs = 16  
tcblhashnum = 16  
tcblhashsize = 1024
```

```
tcp_sendspace = 1048576
```

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Notes/Tuning Information (Continued)

Operating System Notes (Continued)

net:
netisrthreads=1
netisrwakeupthreshold = 96

socket:
somaxconn = 32765
sominconn = 32765
umc = 1

vfs:
name_cache_hash_size = 16384
namei_cache_valid_time = 8400

Additional kernel tuning:
Spike feedback-based optimization applied to kernel.

HTTPS Software Notes

Zeus Tuning
runningsites/<host>; bindaddr text 25.76.76.76
global.cfg:
tuning!bind_any yes
tuning!cache_files 192461
tuning!cache_flush_interval 86400
tuning!cache_large_file 1048576
tuning!cache_max_bytes 0
tuning!cache_small_file 8192
tuning!cache_stat_expire 86400
tuning!num_children 4
tuning!so_wbuff_size 1048576
tuning!softservers no
tuning!unique_bind no
tuning!use_poll no

tuning!cache_cooling_time 0
tuning!cbuff_size 65536
tuning!ssl_sessioncache_size 5011
tuning!ssl_sessioncache_expiry 120
tuning!ssl_keepalive yes
tuning!ssl_diskcache yes
tuning!keepalive yes
tuning!keepalive_max -1

ssl_diskcache mounted on 120MB mfs partition

Hardware Notes

Disk Configuration:
disk1: OS (/usr) [Controller 2]
disk2: URLroot (/www) [2]
disk3: http logging [3]
disk4-7: wwwdomain#file_set rw,noatimes [1,3]

disk8-9: swap [2]

Network Notes

Network Tuning: N/A

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Notes/Tuning Information (Continued)

Client Notes

max-proc-per-user = 0
proc:
maxusers = 1024
max-threads-per-user = 1024
socket:
sominconn = 32765
somaxconn = 32765
inet:
ipport_userreserved = 65000
tcp_recvspace = 60000

Other Notes

Tuning Disclosure: Compaq-20020315.txt
Dynamic API: Compaq-20011115-ES45_Z4.tar.Z