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 = 0x40000000000
max_per_proc_data_size = 0x40000000000
max_proc_per_user = 2048
max_threads_per_user = 0
per_proc_address_space = 0x40000000000
per_proc_data_size = 0x40000000000
maxusers = 16384

inet:
ipqmaxlen = 2000
ipqs = 16
tcbhashnum = 16
tcbhashsize = 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