

SPECweb99 Result

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Compaq Computer Corp.: Alphaserver ES45
Zeus Ltd: Zeus 3.3.8.1

SPECweb99 = 4482

Test Date: Jun-2001
Tester: Compaq

Hardware Avail: Oct-2001 OS Avail: Sep-2001 HTTP Software Avail: Mar-2001 Sup. Software Avail: Sep-2001 SPEC license #: 2

Hardware

Vendor: Compaq Computer Corp.
Model: Alphaserver ES45
Processor: 1000 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: 32 GB
Disk Subsystem: 15 x(COMPAQ BB00912301 9GB SCSI)
Disk Controllers: 2 x QLOGIC ISP1040B/V2 FW SCSI
Other Hardware: 3 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System: Compaq Tru64 UNIX V5.1A Spiked
File System: UFS & AdvFS
Other Software: none

HTTP Software

Vendor: Zeus Ltd
HTTP Software: Zeus 3.3.8.1
API: ISAPI
Server Cache: none
Log Mode: Binary Log Format

Test Sponsor

Test Date: Jun-2001
Tested By: Compaq
SPEC License: 2

Network

of Controllers: 3
Network Controllers: 3 x DEGPA-SA
of Nets: 3
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: 9
Model: Compaq DS20E
Processor: 667MHz 21264
of Processors: 2
Memory: 1GB
Network Controller: DEGPA-SA
Operating System: Compaq Tru64 UNIX V5.1
Compiler: Compaq C V6.3-026

Notes/Tuning Information

SUT Notes

Operating System Notes

OS Tuning parameters:

```
vm:  
swapdevice=/dev/disk/dsk14c,/dev/disk/dsk15c
```

```
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
```

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Notes/Tuning Information (Continued)

Operating System Notes (Continued)

inet:
ipqmaxlen = 2000
ipqs = 16
tcblhashnum = 16
tcblhashsize = 8192

tcp_sendspace = 1048576

net:
netisrthreads=2
netisrakeupthreshold = 96

socket:
somaxconn = 32765
sominconn = 32765
umc = 1

vfs:
name_cache_hash_size = 16384
namei_cache_valid_time = 8400

advfs:
AdvfsCacheHashSize = 32768
AdvfsCacheMaxPercent = 25

alt:
minimal_isr = 0
send_coal = 500
send_ticks = 31250
recv_coal = 500
recv_ticks = 200

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

HTTP Software Notes

Zeus Tuning
runningsites/<host>: bindaddr text 10.76.76.76,11.76.76.76,12.76.76.76
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 6
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

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Notes/Tuning Information (Continued)

Hardware Notes

"Disk Configuration:

" disk1: OS (/, /usr) [Controller 1]

" disk2: URLroot (/www) [2]

" disk3, disk9: http logging (log_dmn#log_fs) [2,3]

" disk4-7, disk10-13 wwwdomain#file_set rw,noatimes [2,3]

" disk14, disk15: swap [3]

Network Notes

Network Tuning: N/A

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-20010614.txt

Dynamic API: Compaq-ES45-20010614.tar.gz