SPECweb99 Result

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Compaq Computer Corp.: Alphaserver ES40
Zeus Ltd: Zeus 3.3.7

SPECweb99 = 2304

Test Date: Oct-2000
Tester: Compaq

Hardware Avail:	Dec-1999	OS Avail:	Jan-2001	HTTP Software Avail:	Sep-2000	Sup. Software Avail:	Sep-2000	SPEC license #:	2

Hardware

Vendor:	Compaq Computer Corp.
Model:	Alphaserver ES40
Processor:	667 MHz 21264A
# Processors:	4 cores, 4 chips, 1 core/chip
Primary Cache:	64KB(I)+64KB(D) on chip
Secondary Cache:	8MB off chip
Other Cache:	none
Memory:	8 GB
Disk Subsystem:	6 x(COMPAQ BB00912301 9GB SCSI)
Disk Controllers:	2 x QLOGIC ISP1040B/V2 FW SCSI
Other Hardware:	2 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System:	Compaq Tru64 UNIX V5.1 + Patch kit 2
File System:	UFS & AdvFS
Other Software:	none

HTTP Software

Vendor:	Zeus Ltd
HTTP Software:	Zeus 3.3.7
API:	ISAPI
Server Cache:	none
Log Mode:	Binary Log Format

Test Sponsor

Test Date:	Oct-2000
Tested By:	Compaq
SPEC License:	2

Network

# of Controllers:	2
Network Controllers:	2 x DEGPA-SA
# of Nets:	2
Type of Nets:	Gigabit Ethernet
Network Speed:	1000Mbit
MSL (sec):	30 (Non RFC1122)
Time-Wait (sec):	60 (Non RFC1122)
MTU:	1500

Clients

# of Clients:	12
Model:	Digital Personal WorkStation 600au
Processor:	600MHz 21164
# of Processors:	1
Memory:	1GB
Network Controller:	DEGPA-SA
Operating System:	Compaq Tru64 UNIX V4.0F
Compiler:	DEC C V5.9-005

Notes/Tuning Information

SUT Notes

Operating System Notes

OS Tuning parameters:

vm:
swapdevice=/dev/disk/dsk20c

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 = 12
tcbhashnum = 12
tcbhashsize = 4096
tcp_recvspace = 60000
tcp_sendspace = 60000

net:
netisrthreads=2
netisrwakeupthreshold = 96

socket:
somaxconn = 32765
sominconn = 32765
umc = 1

vfs:
name_cache_hash_size = 16384
namei_cache_valid_time = 8400

advfs:
AdvfsCacheHashSize = 32768
AdvfsCacheMaxPercent = 25

HTTP Software Notes

Zeus 3.3.7 Tuning
runningsites/<host>: bindaddr text 10.76.76.76,11.76.76.76
global.cfg:
tuning!bind_any yes
tuning!cache_files 192461
tuning!cache_flush_interval 86400
tuning!cache_large_file 819200
tuning!cache_max_bytes 0
tuning!cache_small_file 4096
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!maxfds 65536
tuning!cache_cooling_time 0
tuning!cbuff_size 65536
tuning!cleansize 0

Hardware Notes

"Disk Configuration:
" disk1: OS (/, /usr) [Controller 1]
" disk2: URLroot (/www) [1]
" disk3: Swap [1]
" disk4 & 5: domain#file_set rw,noatimes (/www/file_set) [2]
" disk6: http logging (/log) [1]

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