SPECweb99 Result

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Compaq Computer Corp.: Alphaserver ES40 6/667
Zeus Ltd: Zeus 3.3.4

SPECweb99 = 1800

Test Date: Feb-2000
Tester: Compaq

Hardware Avail:	Feb-2000	OS Avail:	Apr-1999	HTTP Software Avail:	Dec-1999	Sup. Software Avail:	Apr-1999	SPEC license #:	2

Hardware

Vendor:	Compaq Computer Corp.
Model:	Alphaserver ES40 6/667
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:	3x4GB(RZ1CF-CF), 3x9GB(RZ1DB-CS)
Disk Controllers:	Integral FW SCSI
Other Hardware:	2 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System:	Compaq Tru64 UNIX V4.0F
File System:	UFS and AdvFS
Other Software:	none

HTTP Software

Vendor:	Zeus Ltd
HTTP Software:	Zeus 3.3.4
API:	ISAPI
Server Cache:	none
Log Mode:	Common Log Format

Test Sponsor

Test Date:	Feb-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:	10
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:
proc:
maxusers = 2048
max-proc-per-user = 0
max-threads-per-user = 1024
per-proc-data-size = 0x40000000000
max-per-proc-data-size = 0x40000000000
max-per-proc-address-space = 0x40000000000
per-proc-address-space = 0x40000000000
socket:
sominconn = 32765
somaxconn = 32765
umc = 1
inet:
ipqs = 10
tcbhashnum = 10
tcbhashsize = 8192
tcp_sendspace = 60000
tcp_recvspace = 60000
ipqmaxlen=2000
vm:
ubc-maxpercent = 60
vm-mapentries = 50000

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Notes/Tuning Information (Continued)

Operating System Notes (Continued)

vm-vpagemax = 131072
vm-maxvas = 0x40000000000

vfs:
name-cache-hash-size = 8192
namei-cache-valid-time = 8400
advfs:
AdvfsCacheMaxPercent = 25
AdvfsCacheHashSize = 65536

AdvfsPreallocAccess = 65536

net:
netisrthreads=2
netisrwakeupthreshold=240

HTTP Software Notes

Zeus 3.3.4 Tuning
runningsites/<host>: bindaddr text 16.45.205.151,16.49.209.151
global.cfg:
tuning!bind_any yes
tuning!cache_files 44089
tuning!cache_flush_interval 9000
tuning!cache_large_file 1048576
tuning!cache_max_bytes 0
tuning!cache_small_file 102
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

Hardware Notes

"Disk Configuration:
" disk1: OS and swap (/, /usr, swap)
" disk2: URLroot (/www)
" disk3 & disk4: file_set (/www/file_set) [AdvFS Domain]
" disk5 & disk6: http logging (/log) [lsm stripeset]

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
ipqmaxlen=2000
tcbhashsize=8192