SPECweb99 Result

Hewlett-Packard Company: Alphaserver ES45 68/1250
Zeus Ltd: Zeus 4.1r1

SPECweb99 = 5094

Test Date: Jun-2002
Tested By: Hewlett-Packard Company

Hardware Avail:	Aug-2002	OS Avail:	Nov-2002	HTTP Software Avail:	May-2002	Sup. Software Avail:	Oct-2002	SPEC license #:	2

Hardware

Vendor:	Hewlett-Packard Company
Model:	Alphaserver ES45 68/1250
Processor:	1.25 GHz 21264C
# Processors:	4
Primary Cache:	64KBI+64KBD on chip
Secondary Cache:	16MB off chip
Other Cache:	none
Memory:	32 GB
Disk Subsystem:	13 x(BB00912301 9GB SCSI)
Disk Controllers:	2 x QLOGIC ISP1040B/V2 FW SCSI
Other Hardware:	3 x ALTEON ACEswitch 180 GbE Switch

Software

Operating System:	Tru64 UNIX T5.1B
File System:	UFS & AdvFS
Other Software:	none

HTTP Software

Vendor:	Zeus Ltd
HTTP Software:	Zeus 4.1r1
API:	ISAPI
Server Cache:	none
Log Mode:	Binary Log Format

Test Sponsor

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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:	12
Model:	HP DS20E
Processor:	667MHz 21264
# of Processors:	2
Memory:	1GB
Network Controller:	DEGPA-SA
Operating System:	Tru64 UNIX V5.1
Compiler:	Compaq C V6.3-026

Notes/Tuning Information

Operating System Notes

OS Tuning parameters:

vm:
swapdevice=/dev/disk/dsk8c

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

inet:
ipqmaxlen = 2000
ipqs = 16
tcbhashnum = 16
tcbhashsize = 1024

Notes/Tuning Information (Continued)

Operating System Notes (Continued)

tcp_dont_winscale = 1048576
tcp_recvspace = 1048576
tcp_sendspace = 1048576

net:
netisrthreads=2
netisrwakeupthreshold = 96

socket:
somaxconn = 32765
sominconn = 32765
umc = 1

vfs:
name_cache_hash_size = 16384
namei_cache_valid_time = 86400

advfs:
AdvfsSyncMmapPages = 0

alt:
send_ticks = 31250
recv_ticks = 200
send_coal = 500
recv_coal = 32

HTTP Software Notes

Zeus Tuning

global.cfg:
tuning!bind_any yes
tuning!cache_files 237911
tuning!cache_flush_interval 86400
tuning!cache_large_file 1048576
tuning!cache_max_bytes 0
tuning!cache_small_file 0
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!keepalive yes
tuning!keepalive_max -1
tuning!modules!isapi!writeclient_limit 524288000

runningsites/<host>:
bindaddr text 10.76.76.76,11.76.76.76,12,76.76.76
modules!fastcgi!enabled yes
modules!map!alias!/fast-cgi/!filepath /www/fast-cgi
modules!isapi!enabled yes
modules!map!alias!/isapi/!filepath /www/isapi

SPECweb99 Result

Notes/Tuning Information (Continued)

Hardware Notes

Disk Configuration:
disk1: OS (/, /usr) [Controller 1]
disk2: URLroot (/www) [1]
disk3, disk9: http logging (log_dmn#log_fs) [1,2]
disk4-7, disk10-13 wwwdomain#file_set rw,noatimes [1,2]

disk8: swap [1]

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 = 1048576

Other Notes

Other Notes
Tuning Disclosure: HP-20020805-Alpha-Tru64-5.1b.txt
Dynamic API: Compaq-ES45-20011115.tar.gz
Client code built: ./configure --enable-posix-threads i
--enable-safe-gethostbyname ; make