

# SPECweb99 Result

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

SPECweb99 = 5094

Test Date: Jun-2002  
Tester: Hewlett-Packard Company

Hardware Avail: Aug-2002 OS Avail: Dec-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 cores, 4 chips, 1 core/chip  
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

Test Date: Jun-2002  
Tested By: Hewlett-Packard Company  
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: 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 = 0x4000000000  
max_per_proc_data_size = 0x4000000000  
max_proc_per_user = 2048  
max_threads_per_user = 0  
per_proc_address_space = 0x4000000000  
per_proc_data_size = 0x4000000000
```

```
inet:  
ipqmaxlen = 2000  
ipqs = 16  
tcblhashnum = 16  
tcblhashsize = 1024
```

For more  
Information  
Contact

SPEC

info@spec.org  
http://www.spec.org

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## 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/&lt;host&gt;:  
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

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## 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