

# SPECweb99 Result

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Sun Microsystems: Sun Fire 280R  
Zeus Technology Ltd.: Zeus 3.3.8.4

SPECweb99 = 2136

Test Date: Apr-2001  
Tester: Sun Microsystems

Hardware Avail: Mar-2001 OS Avail: Jul-2001 HTTP Software Avail: May-2001 Sup. Software Avail: -- SPEC license #: 6

## Hardware

Vendor: Sun Microsystems  
Model: Sun Fire 280R  
Processor: 750MHz UltraSPARC III  
# Processors: 2 cores, 2 chips, 1 core/chip  
Primary Cache: 32KB(I)+64KB(D) on chip  
Secondary Cache: 8MB(I+D) off chip  
Other Cache: none  
Memory: 8GB  
Disk Subsystem: 1 x 36GB FC-AL  
9 x 18GB Sun StorEdge T3  
Disk Controllers: Integrated FC-AL  
PCI Single FC Network Adapter  
Other Hardware: 1 x Cisco Systems Catalyst 4912G

## Software

Operating System: Solaris 8 4/01 + patches  
File System: UFS  
Other Software: none

## HTTP Software

Vendor: Zeus Technology Ltd.  
HTTP Software: Zeus 3.3.8.4  
API: ISAPI  
Server Cache: SNCA  
Log Mode: SNCA binary CLF

## Test Sponsor

Test Date: Apr-2001  
Tested By: Sun Microsystems  
SPEC License: 6

## Network

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

## Clients

# of Clients: 8  
Model: Ultra 60  
Processor: 450MHz UltraSPARC II  
# of Processors: 2  
Memory: 512MB  
Network Controller: Sun Gigabit Ethernet  
Operating System: Solaris 8 10/00  
Compiler: Sun Workshop 5.0 C

## Notes/Tuning Information

### SUT Notes

### Operating System Notes

```
set sq_max_size=0, set segmap_percent=90
set ge:ge_intr_mode=1, set ge:ge_dmaburst_mode=1
set ge:ge_tx_fastdma_min = 512, set ge:ge_nos_tmnds = 2048
set rlim_fd_max=70000 set, rlim_fd_cur=70000
set pcisch:pci_stream_buf_enable = 0
set nca:nca_conn_req_max_q=100000, set nca:nca_conn_req_max_q0=100000
set nca:nca_ppmax=900000, set nca:nca_vpmax=900000
set nca:nca_conn_hash_size=82500, set nca:ncaurhash_sz = 12281
/usr/sbin/ndd -set /dev/nca nca_max_cache_size 900000
/usr/sbin/ndd -set /dev/nca nca_use_segmap 1
/etc/nca/nca.if: ge0 ge1, /etc/nca/ncakmod.conf: status=enabled
/etc/nca/ncalogd.conf: status=enabled, logd_file_size=1000000000
/etc/nca/ncalogd.conf: logd_path_name=/http_logs/log0 ... /http_logs/log12
Solaris 8 patches: Kernel Update patch (108528-09 or newer)
Solaris 8 patches: TCP patch (109472-06 or newer)
Solaris 8 patches: NCA patch (109234-04 or newer)
Solaris 8 patches: libproc patch (108995-02 or newer)
Solaris 8 patches: pstack patch (111295-01 or newer)
Solaris 8 patches: truss patch (109025-03 or newer)
Solaris 8 patches: libc patch (108991-13 or newer)
Solaris 8 patches: libsndfile patch (111297-01 or newer)
Solaris 8 patches: Sun Gigabit Ethernet patch (108813-06 or newer)
```

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## Notes/Tuning Information (Continued)

### Operating System Notes (Continued)

Solaris 8 patches: libdevinfo patch (111293-03 or newer)

### HTTP Software Notes

Zeus 3.3.8.4 Tuning  
Enabled Modules - runningsites/wstest:  
cgi, get, index, isapi, map, mime  
Parameters - global.cfg:  
tuning!modules!stats!enabled no  
tuning!use\_nca yes  
tuning!cache\_files 98041  
tuning!cache\_max\_bytes 0  
tuning!cache\_small\_file 4096  
tuning!cache\_large\_file 1048576  
tuning!cache\_stat\_expire 31536000  
tuning!cache\_flush\_interval 31536000  
tuning!cache\_cooling\_time 0  
tuning!sendfile yes  
tuning!listen\_queue\_size 8192  
tuning!so\_wbuff\_size 1048576  
tuning!so\_rbuff\_size 0  
tuning!modules!cgi!cleansize 0  
tuning!cbuff\_size 65536  
tuning!sendfile\_minsize 1  
tuning!sendfile\_reservefd 69000  
tuning!bind\_any no

### Hardware Notes

Disk Configuration:  
OS - 1 Internal FC-AL disk  
file\_set & post log - T3, 6 disk RAID 0 LUN  
access log - T3, 3 disk RAID 0 LUN  
Default rd\_ahead on and cache auto set in T3

### Client Notes

set sq\_max\_size=0, set hires\_tick=1  
nnd -set /dev/tcp tcp\_smallest\_anon\_port 2048  
nnd -set /dev/tcp tcp\_time\_wait\_interval 60000