

SPECweb99 Result

Sun Microsystems, Inc. : Sun Fire 4800
 iPlanet : iPlanet Web Server 6.0

NC SPECweb99

SPEC has determined that this result was not in compliance with the SPECweb99 run and reporting rules. Specifically, the result did not meet the 3 month availability requirement in the SPECweb99 run rules.

PERFORMANCE

Iteration	Conforming Simultaneous Connections
1	NC
2	NC
3	NC
Median	NC

Availability Dates

All Hardware Mar-2001
 HTTP Software May-2001
 Operating System Jul-2001
 Supplemental System --

Hardware

Vendor Sun Microsystems, Inc.
 Model Sun Fire 4800
 Processor 750MHz UltraSPARC III
 # Processors 12 cores, 12 chips, 1 core/chip
 Primary Cache 32KB(I), 64KB(D) on chip
 Secondary Cache 8MB(I+D) off chip
 Other Cache none
 Memory 44 GB
 Disk Subsystem 2 x SCSI Disk (18GB)
 2 x Sun StorEdge T3 (9x18GB)
 Disk Controllers PCI fast ethernet SCSI
 PCI Dual FC Network Adapter
 Other Hardware 8 x Extreme Summit 4 Switch

Software

Operating System Solaris 8 4/01 with patches
 File System UFS
 Other Software None

HTTP Software

Vendor iPlanet
 HTTP Software iPlanet Web Server 6.0
 API NSAPI
 Server Cache SNCA

Log Mode SNCA binary CLF

Test Sponsor

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

Network

of Controllers 12
Network Controllers SUN Gigabit Ethernet
of Nets 12
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 32
Model E220R
Processor 450Mhz Ultra Sparc II
of Processors 2
Memory 2GB
Network Controller Sun Gigabit Ethernet
Operating System Solaris 8 10/00
Compiler Sun Workshop 5.0 C

Benchmark Configuration

Requested Connections 8750
Fileset Size (MB) 28118.56

Notes/Tuning information

SUT Notes

Operating System Notes

```
sq_max_size=0, rlim_fd_max=260000, rlim_fd_cur=260000
nca:nca_conn_hash_size=262144, autoup=60, segmap_percent=90
nca:nca_ppmax=4006972, nca:nca_vpmax=4006972
nca:ncaurhash_sz=393209, nca:nca_vnodehash_sz=393209
nca:nca_conn_req_max_q0=10240
ge:ge_intr_mode=1, ge:ge_dmaburst_mode=1, ge:ge_nos_tmids=8192
ge:ge_tx_fastdvma_min=95, ge:ge_tx_bcopy_max=96
ge:ge_nos_txdvma=8192, ge:ge_tx_onemblk=2
pcisch:pci_stream_buf_enable = 0
ndd -set /dev/nca nca_use_segmap 1
/etc/nca/if: *
/etc/nca/ncalogd.conf: status=enabled, logd_file_size=4294967295
/etc/nca/ncalogd.conf: logd_path_name=/var/nca/log0 ... /var/nca/log11
Solaris 8 patches:
Kernel Update patch (108528-09 or newer),
TCP patch (109472-06 or newer), NCA patch (109234-03 or newer),
libproc patch (108995-02 or newer), pstack patch (111295-01 or newer),
truss patch (109025-03 or newer), libc patch (108991-13 or newer),
libsendfile patch (111297-01 or newer)
libdevinfo patch (111293-03 or newer)
Sun Gigabit Ethernet Driver patch (108813-06 or newer)
```

HTTP Software Notes

iWS 6.0 Tuning
StackSize 262144, ListenQ 8192, CGIStubIdleTimeout 10000
ThreadIncrement 10, ConnQueueSize 10000, RqThrottle 16
MaxKeepAliveConnections 0, KeepAliveTimeout 0
FileCacheEnable=true, CopyFiles=false, TransmitFile=true
CacheFileContent=true, MaxAge=86400, MaxFiles=240000
MaxOpenFiles=240000, SmallFileSizeLimit=1000000,
SmallFileSpace=1, MediumFileSizeLimit=1000001, MediumFileSpace=1
acceptorthreads=8, blocking=on

Hardware Notes

Disk Configuration:
OS - 1 internal SCSI disk
file_set & post log - T3, 9 disk RAID 0 LUN
access log - T3, 9 disk RAID 0 LUN
write cache auto and read_ahead off on T3

Network Notes

Network Configuration Details:
server-ge0: 2 clients; server-ge1: 2 clients
server-ge2: 2 clients; server-ge3: 2 clients
server-ge4: 2 clients; server-ge5: 4 clients
server-ge7: 4 clients; server-ge8: 4 clients
server-ge10: 2 clients;server-ge11: 2 clients
server-ge12: 2 clients;server-ge13: 4 clients
server-ge6 and ge9 unused

Client Notes

sq_max_size=0, hires_tick=1, rlim_fd_max=2048, rlim_fd_cur=2048
nnd -set /dev/tcp tcp_smallest_anon_port 2048
nnd -set /dev/tcp tcp_time_wait_interval 60000

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Test Run Details

Table with 8 columns: Run Num, Conforming Connections, Percent Conform, Throughput ops/sec, Response msec, ops/sec/loadgen, Kbits/sec. Contains 3 rows of test results, all showing 'NC' (Not Connected).