

SPECweb99 Result

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

SPECweb99 = 8739

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, Inc.
Model: Sun Fire 4800
Processor: 750MHz UltraSPARC III
Processors: 12 cores, 12 chips, 1 core/chip
Primary Cache: 32KBI+64KBD 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

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:ncaurihash_sz=393209, nca:ncavnodehash_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
nnd -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),
libsndfile patch (111297-01 or newer)
libdevinfo patch (111293-03 or newer)
Sun Gigabit Ethernet Driver patch (108813-06 or newer)
```

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Notes/Tuning Information (Continued)

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, SmallFilesSizeLimit=1000000,
SmallFileSpace=1, MediumFileSpaceLimit=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

Other Notes

The software was generally available on 13-July-01. The availability date is listed as July-01 per SPEC requirement and is exactly the same as the date listed on our original submission in Apr-01 for Sun Fire 4800