SPECweb99 Result

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Sun Microsystems, Inc.: Sun Fire 4810
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 4810
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_tmds=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)

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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, 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
ndd -set /dev/tcp tcp_smallest_anon_port 2048
ndd -set /dev/tcp tcp_time_wait_interval 60000