SPEC SFS 1 Summary (Side 1 of 2) 097.LADDIS

Sun Microsystems Inc.
Ultra Enterprise 3002/4

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 3002
CPU	250MHz UltraSPARC II
# of CPUs	4
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4096KB(I+D) off chip
Other Cache	None
Memory	1GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	8
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	122
Num File Systems	120

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	4
Num Networks	4
Type Network	100MBit Sun FastEthernet

Server Tuning

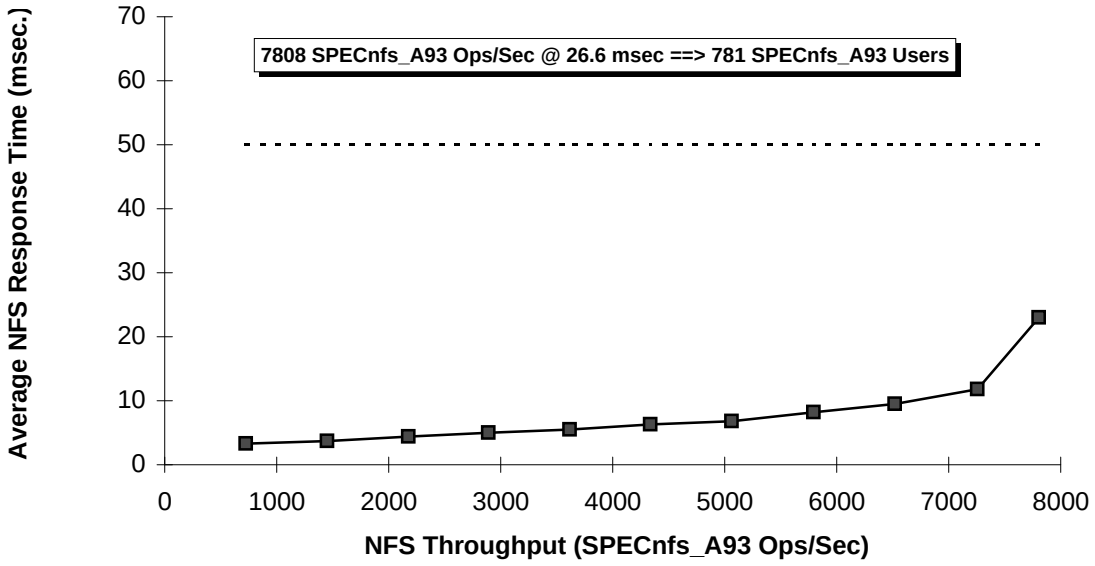
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	511
Fileset Size	41.1GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
724	3.3
1451	3.7
2176	4.4
2893	5.0
3618	5.5
4338	6.3
5062	6.8
5792	8.2
6520	9.5
7257	11.8
7808	23.0

Hardware Availability: Apr-97 **Software Availability:** May-96

License #: 6 **Tested:** Mar-97 **By:** Sun **Of:** Mountain View



Notes/Summary Of Tuning Parameters: (Continued on Side 2 of 2)

IGNORE_KERNEL_PREEMPTION=1
ncsize=131072
bufhwm=262144

SSA fast_write enabled

SPEC SFS 1 Summary (Side 2 of 2) 097.LADDIS

Sun Microsystems Inc.
Ultra Enterprise 3002/4

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 2 LGs
2 Sun FastEthernet (N2): 2 LGs
3 Sun FastEthernet (N3): 2 LGs
4 Sun FastEthernet (N4): 2 LGs

Disk Subsystem & Filesystems

Controller 1: On-board SCSI-2
Disks: 2 2GB 7200rpm

Controller 2-5: Fiber Channel SBus (FC25/S) /
Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 102 w/ 30 2GB 7200rpm drives
Contents 2: F1-F30
Contents 3: F31-F60
Contents 4: F61-F90
Contents 5: F91-F120

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra1-170	1	64MB	Solaris 2.5.1	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F9,...,F113	default
2	LG1	N1	F2,F10,...,F114	default
3	LG1	N2	F3,F11,...,F115	default
4	LG1	N2	F4,F12,...,F116	default
5	LG1	N3	F5,F13,...,F117	default
6	LG1	N3	F6,F14,...,F118	default
7	LG1	N4	F7,F15,...,F119	default
8	LG1	N4	F8,F16,...,F120	default

Notes/Summary Of Tuning Parameters: (Continued from Side 1 of 2)