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

Sun Microsystems Inc.
Enterprise 3000/4

Server Hardware

CPU, Memory, & Power

Model No.	Model 3000/4
CPU	167MHz UltraSPARC
# of CPUs	4
Primary Cache	16KBI+16KBD on chip
Secondary Cache	512KB(I+D) off chip
Other Cache	None
Memory	1GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1 pre-FCS
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	3
Processes Per Load Generator:	32
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	97
Num File Systems	96

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	3
Num Networks	3
Type Network	100MBit Sun FastEthernet

Server Tuning

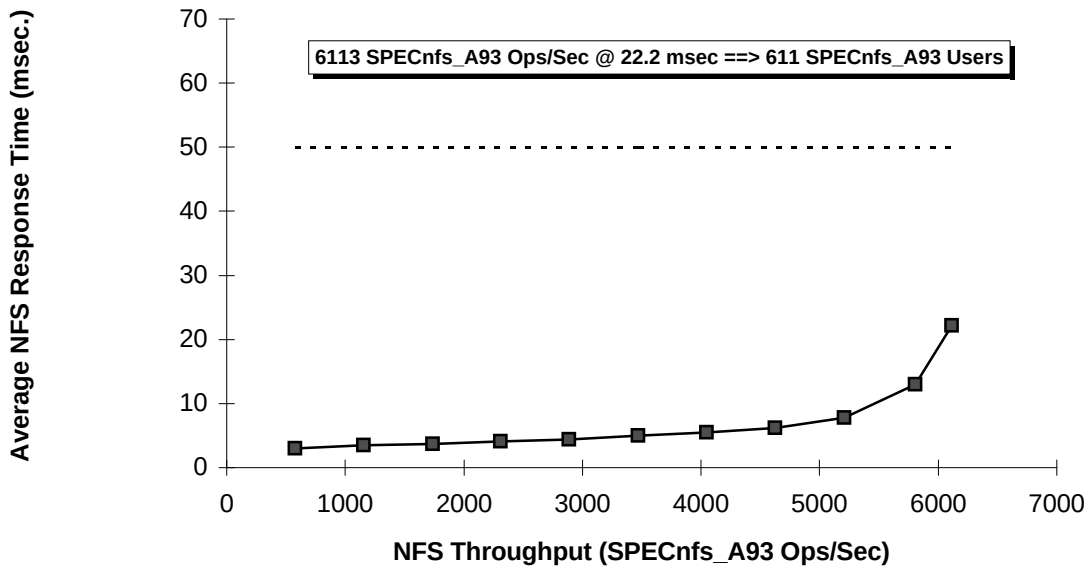
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	256
Fileset Size	32.9GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
579	3.0
1157	3.5
1737	3.7
2312	4.1
2889	4.4
3469	5.0
4046	5.5
4625	6.2
5208	7.8
5807	13.0
6113	22.2

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

License #: 6 **Tested:** Apr-96 **By:** Sun **Of:** Mountain View



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

bufhwm=65536

IGNORE_KERNEL_PREEMPTION=1

ncsize=65536

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 3000/4

Detailed Server Description

Network Subsystem

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

Disk Subsystem & Filesystems

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

Controller 2-5:
Fiber Channel SBus (FC25/S) /Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 102 w/ 24 2GB 7200rpm drives
Contents 2: F1-F24
Contents 3: F25-F48
Contents 4: F49-F72
Contents 5: F73-F96

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra2-170	2	64MB	Solaris 2.5.1 pre-FCS	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F4,...,F94	default
2	LG1	N2	F2,F5,...,F95	default
3	LG1	N3	F3,F6,...,F96	default

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