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

Silicon Graphics
Origin 2000 2 x 195 MHz

Server Hardware

CPU, Memory, & Power

Model No.	D1-H6402-4
CPU	195 MHz R10000
# of CPUs	2
Primary Cache	32KBI+32KBD on chip
Secondary Cache	4MB(I+D) off chip
Other Cache	None
Memory	512MB
UPS	None
Other hardware	100baseT Full Duplex

Server Software

OS Version	IRIX 6.4 S2MP+OCTANE
Other software	NFS
File system	XFS

Load Generators (LGs)

Number of Load Generators:	8
Processes Per Load Generator:	6
Biod_Max_Reads:	2
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	9
Num Disks	49
Num File Systems	48

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	8
Num Networks	8 (N1 - N8)
Type Network	100baseT Full Duplex

Server Tuning

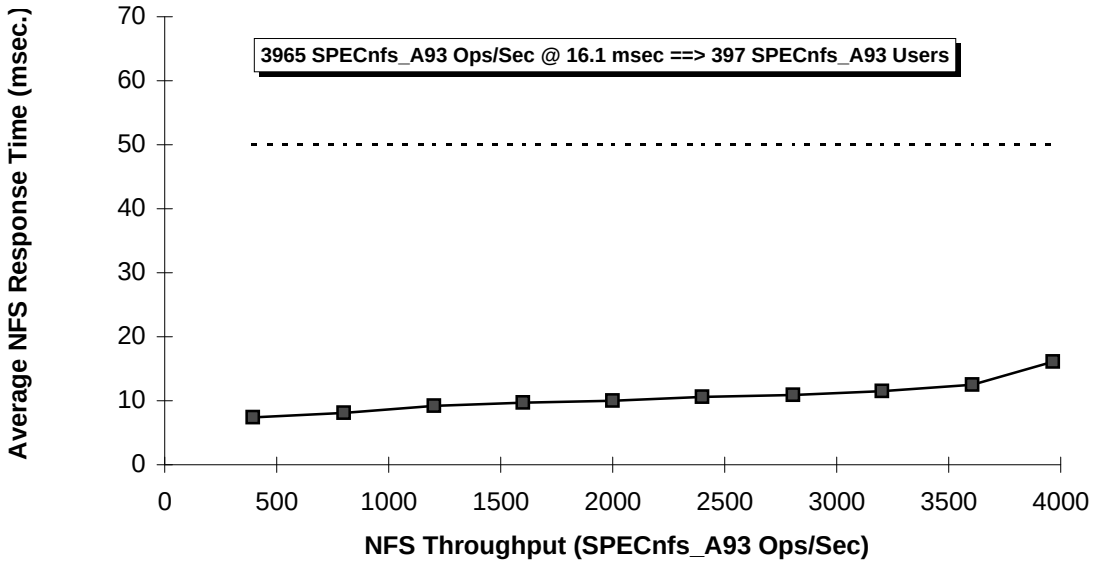
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	46
Fileset Size	21GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
395	7.4
801	8.1
1203	9.2
1600	9.7
2000	10.0
2399	10.6
2805	10.9
3204	11.5
3606	12.5
3965	16.1

Hardware Availability: Dec-96 **Software Availability:** Mar-97

License #: 4 **Tested:** Feb-97 **By:** SGI **Of:** Mountain View, CA



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

ncsize=36000

ef_rxdelay=100

All filesystems are mounted in wsync mode.

All filesystems are exported in wsync mode.

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

Silicon Graphics
Origin 2000 2 x 195 MHz

Detailed Server Description

Network Subsystem

2 XT 100baseT 4 port controller cards
Each port wired point-to-point to one load generator

Disk Subsystem & Filesystems

Controller 1: Ultra SCSI base I/O
Disks: 1 Origin 4GB
Contents: OS, page space
Controllers 2-9: 2 XT-SCSI-4P XIO 4 port cards
Disks: 48 Challenge 2GB Fast/Wide Differential
Controller 2: Contents: FS0,8,16,24,32,40
Controller 3: Contents: FS1,9,17,25,33,41
Controller 4: Contents: FS2,10,18,26,34,42
Controller 5: Contents: FS3,11,19,27,35,43
Controller 6: Contents: FS4,12,20,28,36,44
Controller 7: Contents: FS5,13,21,29,37,45
Controller 8: Contents: FS6,14,22,30,38,46
Controller 9: Contents: FS7,15,23,31,39,47

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	O2 180 MHz R5000SC	1	64MB	IRIX 6.3 for O2 including R1	IRIX Pro 7.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	FS0-5	Default
2	LG1	N2	FS6-11	Default
3	LG1	N3	FS12-17	Default
4	LG1	N4	FS18-23	Default
5	LG1	N5	FS24-28	Default
6	LG1	N6	FS30-35	Default
7	LG1	N7	FS36-41	Default
8	LG1	N8	FS42-47	Default

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