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

Silicon Graphics
Origin2000 8 X 250 MHz

Server Hardware

CPU, Memory, & Power

Model No.	HU1-H6502-8
CPU	250 MHz R10000
# of CPUs	8
Primary Cache	32KBI+32KBD on chip
Secondary Cache	4MB(I+D) off chip
Other Cache	None
Memory	5120MB
UPS	None
Other hardware	100baseT Full Duplex

Server Software

OS Version	IRIX 6.5
Other software	NFS
File system	XFS

Load Generators (LGs)

Number of Load Generators:	8
Processes Per Load Generator:	27
Biod_Max_Reads:	2
Biod_Max_Writes:	4

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	217
Num File Systems	216

Network Subsystem

(Full Configuration On Side 2)

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

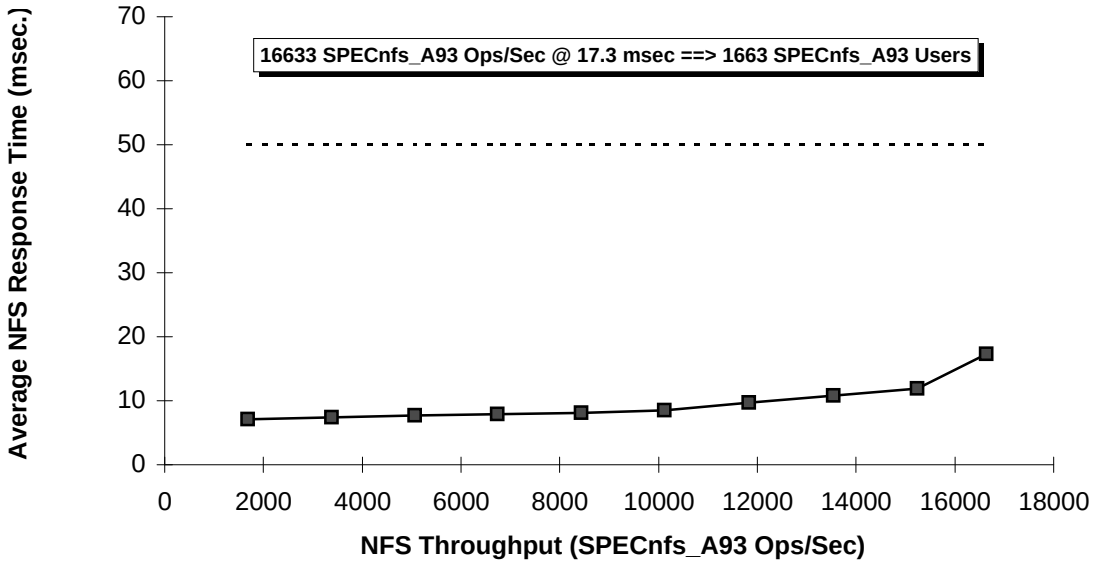
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	216
Fileset Size	105GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1691	7.1
3384	7.4
5068	7.7
6744	7.9
8434	8.1
10123	8.5
11834	9.7
13545	10.8
15240	11.9
16633	17.3

Hardware Availability:	Apr-98			**Software Availability:**	Jul-98		
License #:	4	**Tested:**	Feb-98	**By:**	SGI	**Of:**	Mountain View, CA



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

ncsize=180000

All filesystems are mounted in wsync mode.

All filesystems are exported in wsync mode.

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

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Detailed Server Description

Network Subsystem

2 XT-FE-4TX-6A 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 2,3,4,5: 2 XT-FC-2P Fibre Channel XIO Cards

Disks: 216 9.1 GB Dual Port FibreChannel Disks

Controller 2: Contents: FS0,4,8,.....,212

Controller 3: Contents: FS1,5,9,.....,213

Controller 4: Contents: FS2,6,10,.....,214

Controller 5: Contents: FS3,7,11,.....,215

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Origin200 180 MHz R10000	2	64MB	IRIX 6.4 S2MP + OCTANE	IRIX Pro 7.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	FS0-26	Default
2	LG1	N2	FS27-53	Default
3	LG1	N3	FS54-80	Default
4	LG1	N4	FS81-107	Default
5	LG1	N5	FS108-134	Default
6	LG1	N6	FS135-161	Default
7	LG1	N7	FS162-188	Default
8	LG1	N8	FS189-215	Default

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