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

Silicon Graphics

Challenge L 1 x 200 MHz R10000

Server Hardware

CPU, Memory, & Power

Model No.	L 10000
CPU	200MHz MIPS R10000
# of CPUs	1
Primary Cache	32KBI+32KBD on chip
Secondary Cache	1MB(I+D) off chip
Other Cache	None
Memory	1024MB 4-way interleaved
UPS	None
Other hardware	FDDI

Server Software

OS Version	IRIX 6.2
Other software	FDDIXpress, NFS
File system	XFS

Load Generators (LGs)

Number of Load Generators:	4
Processes Per Load Generator:	16
Biod_Max_Reads:	3
Biod_Max_Writes:	2

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	4
Num Disks	33
Num File Systems	32 (FS0-FS31)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	2
Num Networks	2 (N1-N2)
Type Network	FDDI

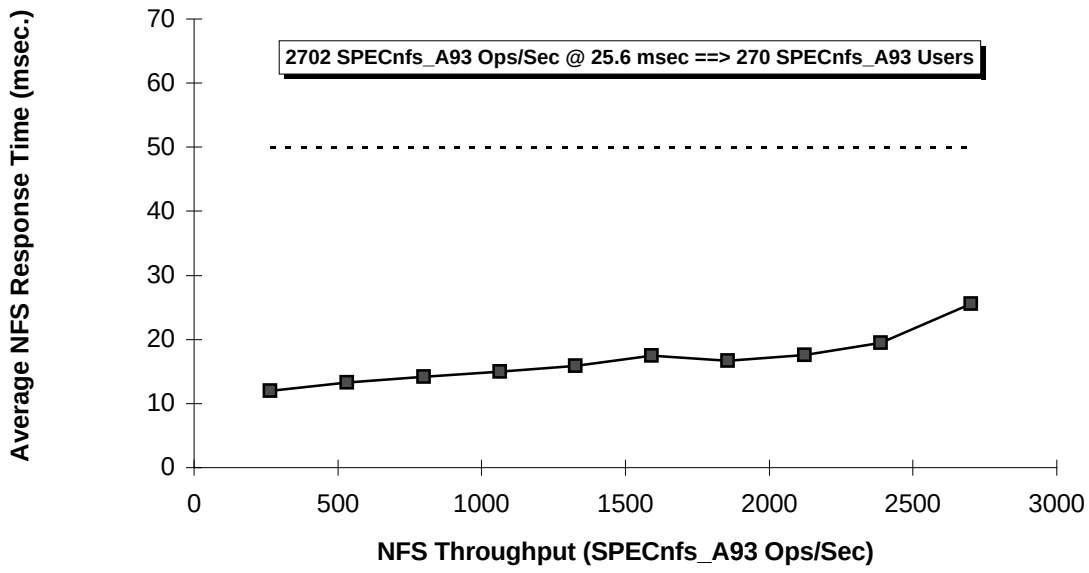
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	70
Fileset Size	15GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
265	12.0
531	13.3
799	14.2
1063	15.0
1326	15.9
1591	17.5
1855	16.7
2123	17.6
2389	19.5
2702	25.6
	50.0

Hardware Availability:	Mar-96			**Software Availability:**	Mar-96		
License #:	4	**Tested:**	Jan-96	**By:**	Silicon Graphi	**Of:**	Mountain View, CA



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

ncsize = 25000

All filesystems are mounted in wsync mode.

All filesystems are exported in wsync mode.

Two SCSI channels were used on each of two SCIP cards.

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Detailed Server Description

Network Subsystem

1 C8-FDDIXPHID FDDI controller
each controller connects to 2 FDDI rings

Disk Subsystem & Filesystems

Controller 1: SCSI Fast/Wide Diff
Disks: 1 SCSI 2GB
Contents: OS, swap space
Controllers 2-5: SCIP-SCSI Fast/Wide Diff
Disks 1-32: 2GB(7200RPM)
Controller 2: Disks: 1-8,FS0,4,8,12,16,20,24,28
Controller 3: Disks: 9-16,FS1,5,9,13,17,21,25,29
Controller 4: Disks: 17-24,FS2,6,10,14,18,22,26,30
Controller 5: Disks: 25-32,FS3,7,11,15,19,23,27,31

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Indy	1 200MH	32MB	IRIX 5.3	Ansi C, 3.17

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	FS0-FS15	
2	LG1	N1	FS15-FS31	
3	LG1	N2	FS0-FS15	
4	LG1	N2	FS15-FS31	

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