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

Silicon Graphics
Challenge DM 4 x 200 MHz R4400

Server Hardware

CPU, Memory, & Power

Model No.	D-48604-S3
CPU	200MHz MIPS R4400
# of CPUs	4
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4MB(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:	8
Processes Per Load Generator:	12
Biod_Max_Reads:	4
Biod_Max_Writes:	2

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	7
Num Disks	49
Num File Systems	48 (FS0-FS47)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	4
Num Networks	4 (N1-N4)
Type Network	FDDI

Server Tuning

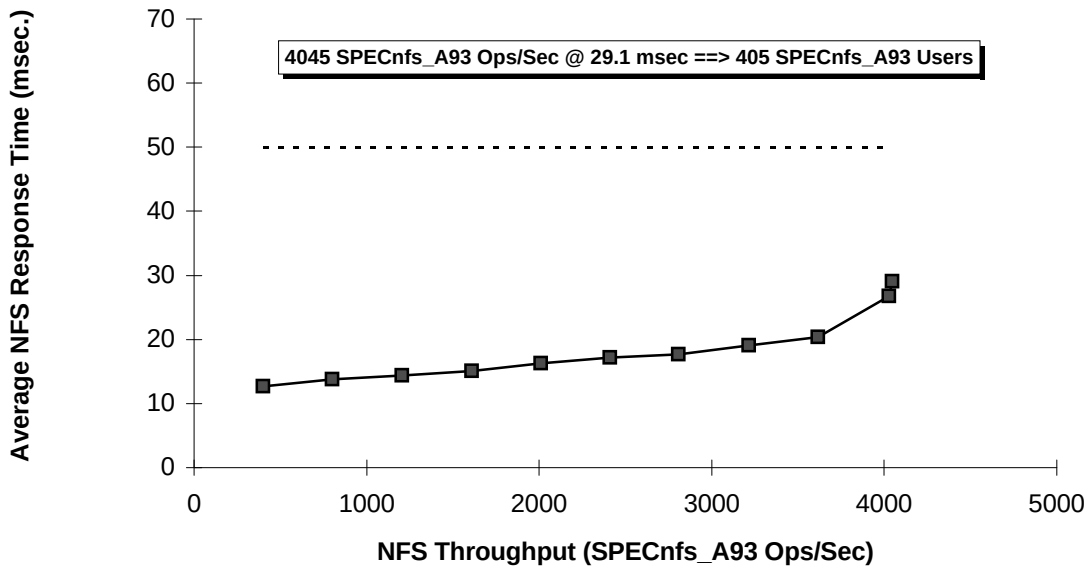
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	112
Fileset Size	22GB

Hardware Availability: Jan-96 **Software Availability:** Mar-96

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

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
402	12.7
803	13.8
1206	14.4
1609	15.1
2010	16.3
2410	17.2
2809	17.7
3217	19.1
3616	20.4
4027	26.8
4045	29.1



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

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 C8-FDDIXPHID FDDI controllers
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 2-7: SCIP-SCSI Fast/Wide Diff (3 per card)
Disks 1-48: 2GB(7200RPM)
Controller 2: Disks: 1-8,FS0,6,12,18,24,30,36,42
Controller 3: Disks: 9-16,FS1,7,13,19,25,31,37,43
Controller 4: Disks: 17-24,FS2,8,14,20,26,32,38,44
Controller 5: Disks: 25-32,FS3,9,15,21,27,33,39,45
Controller 6: Disks: 33-40,FS4,10,16,22,28,34,40,46
Controller 7: Disks: 41-48,FS5,11,17,23,29,35,41,47

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-FS11	
2	LG1	N1	FS12-FS23	
3	LG1	N2	FS24-FS35	
4	LG1	N2	FS36-FS47	
5	LG1	N3	FS0-FS11	
6	LG2	N3	FS12-FS23	
7	LG1	N4	FS24-FS35	
8	LG1	N4	FS36-FS47	

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