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

Silicon Graphics
Challenge XL 8 x 190 MHz R10000

Server Hardware

CPU, Memory, & Power

Model No.	D-95608-S2
CPU	190MHz MIPS R10000
# of CPUs	8
Primary Cache	32KBI+32KBD on chip
Secondary Cache	1MB(I+D) off chip
Other Cache	None
Memory	2048MB
UPS	None
Other hardware	FDDI

Server Software

OS Version	IRIX 6.2
Other software	NFS
File system	XFS

Load Generators (LGs)

Number of Load Generators:	12
Processes Per Load Generator:	10
Biod_Max_Reads:	2
Biod_Max_Writes:	2

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	16
Num Disks	121
Num File Systems	120 (FS0-FS119)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	6
Num Networks	6 (N1-N6)
Type Network	FDDI

Server Tuning

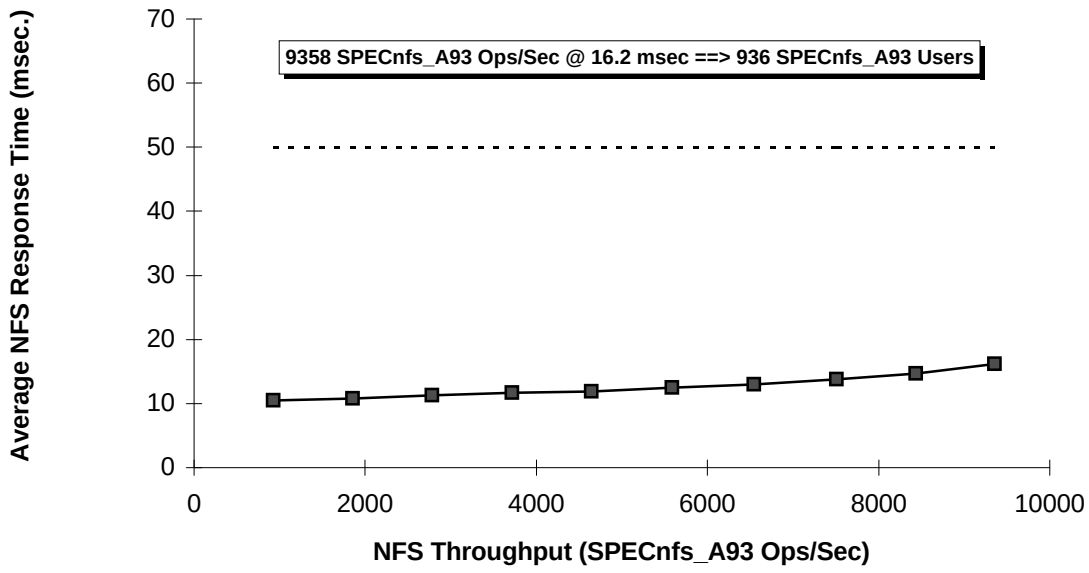
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	150
Fileset Size	51GB

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

License #: 4 **Tested:** Mar-96 **By:** SGI **Of:** Mountain View, CA

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
929	10.5
1857	10.8
2784	11.3
3714	11.7
4642	11.9
5590	12.5
6543	13.0
7507	13.8
8435	14.7
9358	16.2



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

ncsize=80000

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

3 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 2-16: SCIP-SCSI Fast/Wide Diff
Disks 1-120: 2GB Quantum
Controller 2: Disks: 1-8,FS0,15,30,45,60,75,90,105
Controller 3: Disks: 9-16,FS1,16,31,46,61,76,91,106
Controller 4: Disks: 17-24,FS2,17,32,47,62,77,92,107
Controller 5: Disks: 25-32,FS3,18,33,48,63,78,93,108
Controller 6: Disks: 33-40,FS4,19,34,49,64,79,94,109
Controller 7: Disks: 41-48,FS5,20,35,50,65,80,95,110
Controller 8: Disks: 49-56,FS6,21,36,51,66,81,96,111
Controller 9: Disks: 57-64,FS7,22,37,52,67,82,97,112
Controller 10: Disks: 65-72,FS8,23,38,53,68,83,98,113
Controller 11: Disks: 73-80,FS9,24,39,54,69,84,99,114
Controller 12: Disks: 81-88,FS10,25,40,55,70,85,100,115 etc.

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Indy 200MHz MIPS R4400	1	32MB	IRIX 5.3	Ansi C, 3.17

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	FS0-FS9	Default
2	LG1	N1	FS10-FS19	Default
3	LG1	N2	FS20-FS29	Default
4	LG1	N2	FS30-FS39	Default
5	LG1	N3	FS40-FS49	Default
6	LG1	N4	FS50-FS59	Default
7	LG1	N4	FS60-FS69	Default
8	LG1	N4	FS70-FS79	Default
9	LG1	N5	FS80-FS89	Default
10	LG1	N5	FS90-FS99	Default
11	LG1	N6	FS100-FS109	Default
12	LG1	N6	FS110-FS119	Default

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