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

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. NFS Response Time Milliseconds
503	9.7
1007	11.1
1511	12.2
2014	13.9
2518	14.9
3027	16.7
3526	18.6
4018	21.0
4529	24.4
5029	27.7
5519	30.7
5785	34.6
5863	38.6

Silicon Graphics Challenge

Server Hardware

CPU, Memory, & Power

Model No.	XL
CPU	200MHz MIPS R4400
# of CPUs	12
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

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	10
Num Disks	101
Num File Systems	100 (FS0-FS99)

Network Subsystem

(Full Configuration On Side 2)

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

Server Software

OS Version	IRIX 5.3
Other software	FDDIXpress, NFS
File system	EFS

Server Tuning

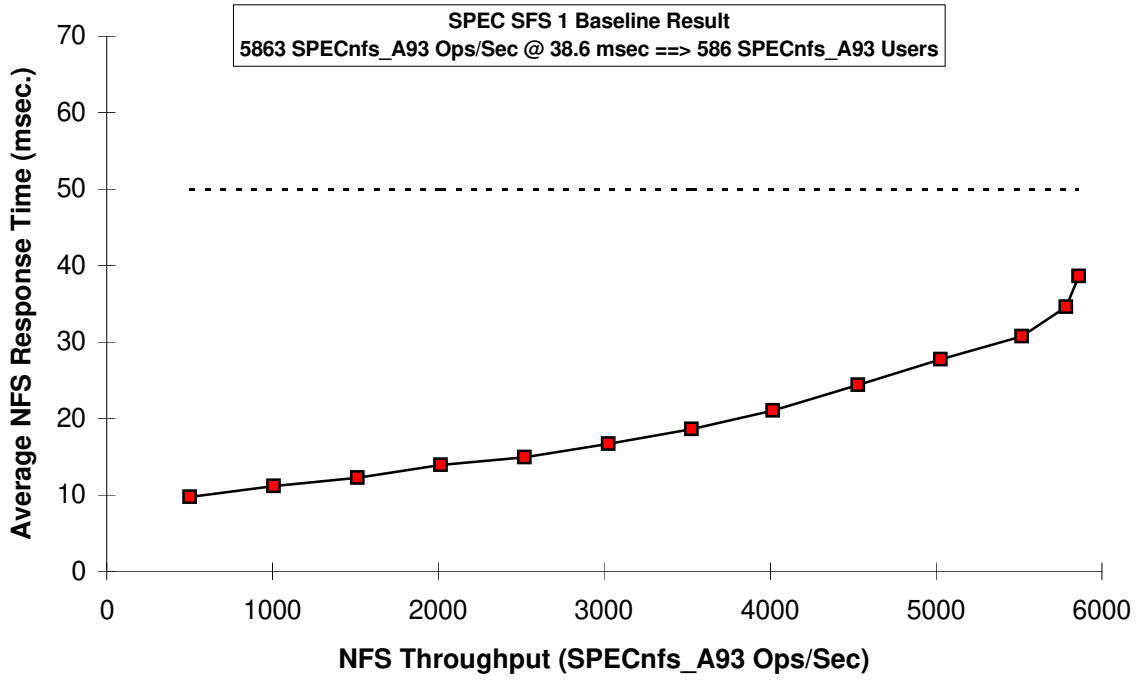
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	180
Fileset Size	33GB

Load Generators (LGs)

Number of Load Generators:	10
Processes Per Load Generator:	20
Biod_Max_Reads:	2
Biod_Max_Writes:	2

Hardware Availability:	Dec-94		**Software Availability:**	Dec-94	
License #:	4	**Tested:** Oct-94	**By:**	Silicon Graphics	**Of:** Mountain View, CA



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

```
syssegsz = 31000
nfsq_momentum = 5
ncsize = 50000
max_physcolors = 128
All exported filesystems are 500MB in size and exported in wsync mode.
```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SPEC SFS 1 *Baseline* Summary (Side 2 of 2) 097.LADDIS

Silicon Graphics Challenge

Detailed Server Description

Network Subsystem

VME 1:

VME 2:

Disk Subsystem & Filesystems

Controller 1: SCSI Fast/Wide Diff
Disks: 1 SCSI 2GB
Contents: OS, swap space

Controllers 2-10: SCIP-SCSI Fast/Wide Diff
Disks 1-40: 2GB(5400RPM)
Disks 41-100: 2GB(7200RPM)

Controller 2: Disks: 1-12, FS3,12,21,30,39,48,57,66,74,81,88,95
Controller 3: Disks: 13-24, FS4,13,22,31,40,49,58,67,75,82,89,96
Controller 4: Disks: 25-36, FS5,14,23,32,41,50,59,68,76,83,90,97
Controller 5: Disks: 37-48, FS6,15,24,33,42,51,60,69,77,84,91,98
Controller 6: Disks: 49-60, FS7,16,25,34,43,52,61,70,78,85,92,99
Controller 7: Disks: 61-68, FS8,17,26,35,44,53,62,71
Controller 8: Disks: 69-80, FS0,9,18,27,36,45,54,63,72,79,86,93
Controller 9: Disks: 81-92, FS1,10,19,28,37,46,55,64,73,80,87,94
Controller 10: Disks: 93-100, FS2,11,20,29,38,47,56,65

Detailed Load Generator (LG) Description

Load Generator Type: LG1

Model:	Indy
# of CPUs:	1 100MHz MIPS R4000
Main Mem	64MB
OS:	IRIX 5.2
Compiler:	Ansi C, 3.17

Load Generator Type: LG2

Model:	Indy
# of CPUs:	1 150MHz MIPS R4400
Main Mem	64MB
OS:	IRIX 5.2
Compiler:	Ansi C, 3.17

Testbed Configuration

Load Generator Number	Load Generator Type	Network	Target Filesystems	Filesystem Mount Options
1	LG1	N1	FS0-FS19	lbsize=32768
2	LG1	N1	FS20-FS39	lbsize=32768
3	LG2	N1	FS40-FS59	lbsize=32768
4	LG1	N2	FS60-FS79	lbsize=32768
5	LG2	N2	FS80-FS99	lbsize=32768
6	LG1	N3	FS0-FS19	lbsize=32768
7	LG1	N3	FS20-FS39	lbsize=32768
8	LG2	N3	FS40-FS59	lbsize=32768
9	LG1	N4	FS60-FS79	lbsize=32768
10	LG2	N4	FS80-FS99	lbsize=32768

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

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