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

## Silicon Graphics
## Challenge XL 12 x 190 MHz R10000

**Server Hardware**

***CPU, Memory, & Power***

| | |
|---|---|
| Model No. | D-95612-S2 |
| CPU | 190MHz MIPS R10000 |
| # of CPUs | 12 |
| 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: | 12 |
| Biod_Max_Reads: | 2 |
| Biod_Max_Writes: | 2 |

***Disk Subsystem & Filesystems***

(Full Configuration on Side 2)

| | |
|---|---|
| Num Disk Controllers | 19 |
| Num Disks | 145 |
| Num File Systems | 144 |

***Network Subsystem***

(Full Configuration On Side 2)

| | |
|---|---|
| Num Net Controllers | 6 |
| Num Networks | 6 |
| Type Network | FDDI |

***Server Tuning***

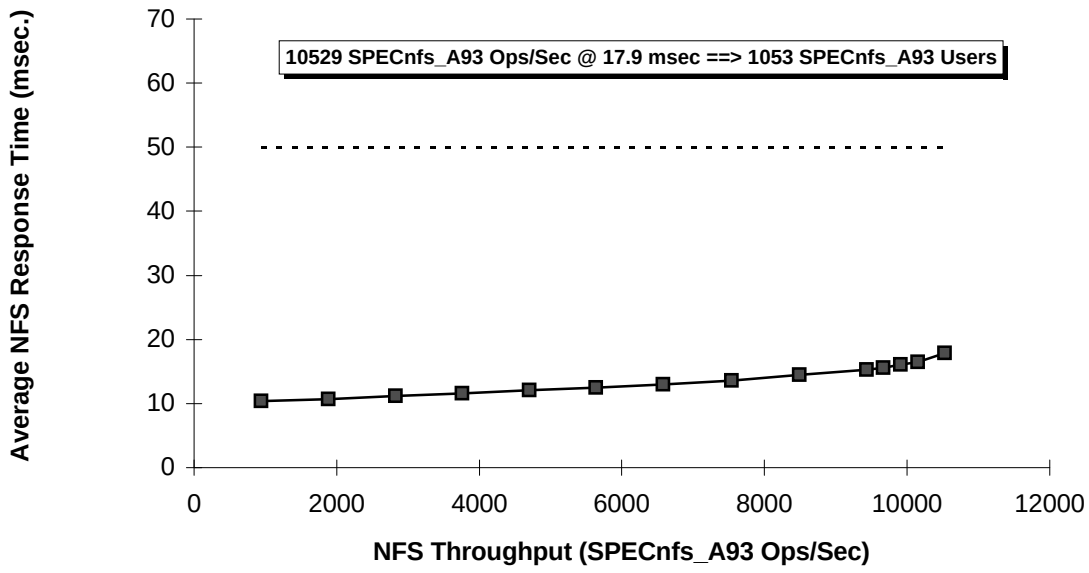
(Also see Notes/Tuning below)

| | |
|---|---|
| Buffer Cache Size | Dynamic |
| Num NFS Daemons | 180 |
| Fileset Size | 57GB |

| NFS Throughput SPECnfs_A93 Ops/Sec | Avg. Response Time (NFS) Milliseconds |
|---|---|
| 942 | 10.4 |
| 1884 | 10.7 |
| 2825 | 11.2 |
| 3760 | 11.6 |
| 4701 | 12.1 |
| 5639 | 12.5 |
| 6579 | 13.0 |
| 7536 | 13.6 |
| 8491 | 14.5 |
| 9432 | 15.3 |
| 9669 | 15.6 |
| 9910 | 16.1 |
| 10149 | 16.5 |
| 10529 | 17.9 |

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

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




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

ncsize=100000

All filesystems are mounted in wsync mode.

All filesystems are exported in wsync mode.

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

## Silicon Graphics
## Challenge XL 12 x 190 MHz R10000

### 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,FS0,18,36,54,72,90,108,126
Controller 3: Disks: 9-16,FS1,19,37,55,73,91,109,127
Controller 4: Disks: 17-24,FS2,20,38,56,74,92,110,128
Controller 5: Disks: 25-32,FS3,21,39,57,75,93,111,129
Controller 6: Disks: 33-40,FS4,22,40,58,76,94,112,130
Controller 7: Disks: 41-48,FS5,23,41,59,77,95,113,131
Controller 8: Disks: 49-56,FS6,24,42,60,78,96,114,132
Controller 9: Disks: 57-64,FS7,25,43,61,79,97,115,133
Controller 10: Disks: 65-72,FS8,26,44,62,80,98,116,134
Controller 11: Disks: 73-80,FS9,27,45,63,81,99,117,135
Controller 12: Disks: 81-88,FS10,28,46,64,82,100,118,136 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-FS11 | Default |
| 2 | LG1 | N1 | FS12-FS23 | Default |
| 3 | LG1 | N2 | FS24-FS35 | Default |
| 4 | LG1 | N2 | FS36-FS47 | Default |
| 5 | LG1 | N3 | FS48-FS59 | Default |
| 6 | LG1 | N3 | FS60-FS71 | Default |
| 7 | LG1 | N4 | FS72-FS83 | Default |
| 8 | LG1 | N4 | FS84-FS95 | Default |
| 9 | LG1 | N5 | FS96-FS107 | Default |
| 10 | LG1 | N5 | FS108-FS119 | Default |
| 11 | LG1 | N6 | FS120-FS131 | Default |
| 12 | LG1 | N6 | FS132-FS143 | Default |

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