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

| NFS Throughput SPECnfs_A93 Ops/Sec | Avg. NFS Response Time Milliseconds |
|---|---|
| 663 | 11.1 |
| 1329 | 12.8 |
| 1997 | 14.6 |
| 2659 | 16.2 |
| 3324 | 17.9 |
| 3987 | 18.7 |
| 4642 | 21.7 |
| 5308 | 24.6 |
| 5969 | 28.4 |
| 6603 | 34.5 |
| 6830 | 36.3 |
| 7023 | 37.1 |

## 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 | 109 |
| Num File Systems | 108 (FS0-FS107) |

***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***

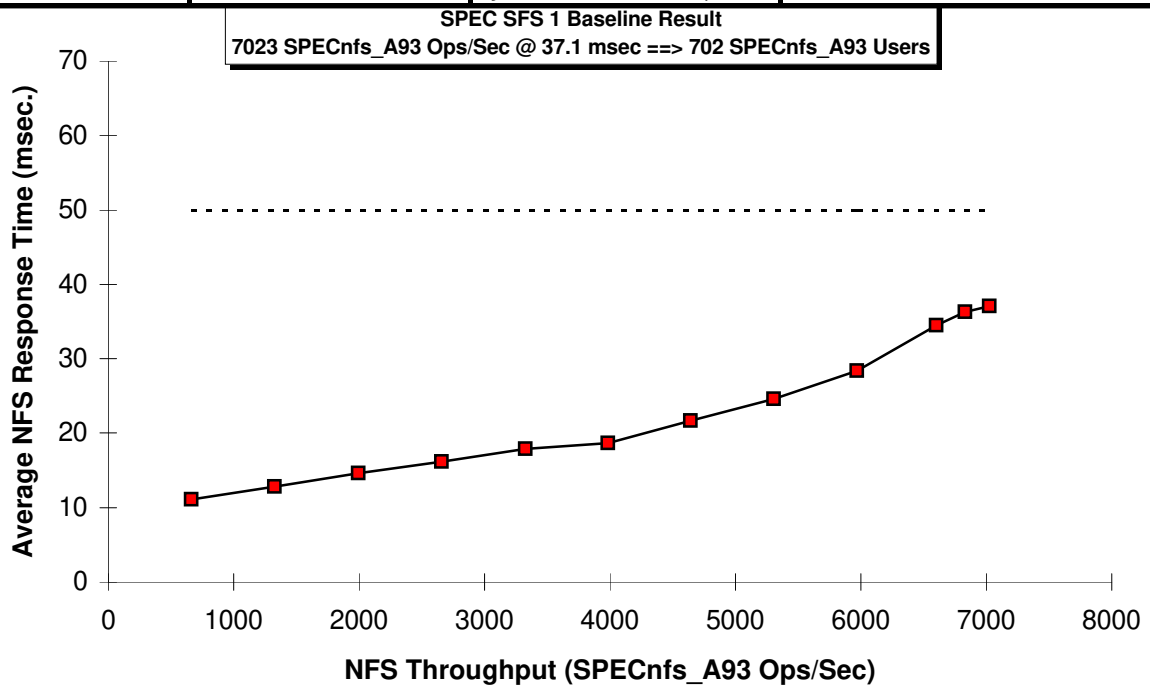
(Also see Notes/Tuning below)

| | |
|---|---|
| Buffer Cache Size | Dynamic |
| Num NFS Daemons | 240 |
| Fileset Size | 39GB |

***Load Generators (LGs)***

| | |
|---|---|
| Number of Load Generators: | 12 |
| Processes Per Load Generator: | 18 |
| Biod_Max_Reads: | 2 |
| Biod_Max_Writes: | 2 |

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




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

syssegsz = 35000
ncsize = 60000
maxphyscolors = 32
vnode_free_ratio = 24

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

## Silicon Graphics Challenge

### Detailed Server Description

***Network Subsystem***

VME 1:
FDDI controller 1: 2 LG1, 1 LG2
FDDI controller 2:
Crescendo 1000 Concentrator: 2 LG1, 1 LG2
VME2:
FDDI controller 3: 2 LG1, 1 LG2
FDDI controller 4:
Crescendo 1000 Concentrator: 2 LG1, 1 LG2

***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 1-48: 2GB(5400RPM)
Disks 49-108: 2GB(7200RPM)
Controller 2: Disks: 1-12, FS3,12,21,30,39,48,57,66,75,84,93,102
Controller 3: Disks: 13-24, FS4,13,22,31,40,49,58,67,76,85,94,103
Controller 4: Disks: 25-36, FS5,14,23,32,41,50,59,68,77,86,95,104
Controller 5: Disks: 37-48, FS6,15,24,33,42,51,60,69,78,87,96,105
Controller 6: Disks: 49-60, FS7,16,25,34,43,52,61,70,79,88,97,106
Controller 7: Disks: 61-72, FS8,17,26,35,44,53,62,71,80,89,98,107
Controller 8: Disks: 73-84, FS0,9,18,27,36,45,54,63,72,81,90,99
Controller 9: Disks: 85-96, FS1,10,19,28,37,46,55,64,73,82,91,100
Controller 10: Disks: 97-108, FS2,11,20,29,38,47,56,65,74,83,92,101

### Detailed Load Generator (LG) Description

| *Load Generator Type: LG1* | | *Load Generator Type: LG2* | |
|---|---|---|---|
| Model: | Indy | Model: | Indy |
| # of CPUs: | 1 100MHz MIPS R4000 | # of CPUs: | 1 150MHz MIPS R4400 |
| Main Mem | 64MB | Main Mem | 64MB |
| OS: | IRIX 5.2 | OS: | IRIX 5.2 |
| Compiler: | Ansi C, 3.17 | Compiler: | Ansi C, 3.17 |

### Testbed Configuration

| Load Generator Number | Load Generator Type | Network | Target Filesystems | Filesystem Mount Options |
|---|---|---|---|---|
| 1 | LG2 | N1 | FS0-FS17 | lbsize=32768 |
| 2 | LG1 | N1 | FS18-FS35 | lbsize=32768 |
| 3 | LG2 | N2 | FS36-FS53 | lbsize=32768 |
| 4 | LG1 | N2 | FS54-FS71 | lbsize=32768 |
| 5 | LG1 | N3 | FS72-FS89 | lbsize=32768 |
| 6 | LG1 | N3 | FS90-FS107 | lbsize=32768 |
| 7 | LG2 | N4 | FS0-FS17 | lbsize=32768 |
| 8 | LG1 | N4 | FS18-FS35 | lbsize=32768 |
| 9 | LG1 | N1 | FS36-FS53 | lbsize=32768 |
| 10 | LG2 | N3 | FS54-FS71 | lbsize=32768 |
| 11 | LG1 | N2 | FS72-FS89 | lbsize=32768 |
| 12 | LG1 | N4 | FS90-FS107 | lbsize-32768 |

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

svc_maxdupreqs = 6000
All filesystems are exported in wsync mode.

##
7023 SPECnfs_A93 Ops/Sec @