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

Falcon Systems

FastfilePro 9000 - RAID 5

Server Hardware

CPU, Memory, & Power

Model No.	FastfilePro 9000
CPU	200MHz PentiumPro
# of CPUs	1
Primary Cache	8KBI+8KBD on chip
Secondary Cache	512KB(I+D) on chip
Other Cache	None
Memory	256MB
UPS	None
Other hardware	FDDI/CDDI

Server Software

OS Version	Falcon AerReal 3.3
Other software	None
File system	JAS

Load Generators (LGs)

Number of Load Generators:	2
Processes Per Load Generator:	6
Biod_Max_Reads:	2
Biod_Max_Writes:	2

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	4
Num Disks	62
Num File Systems	12 (F1-F12)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	1
Num Networks	1 (N1)
Type Network	FDDI/CDDI

Server Tuning

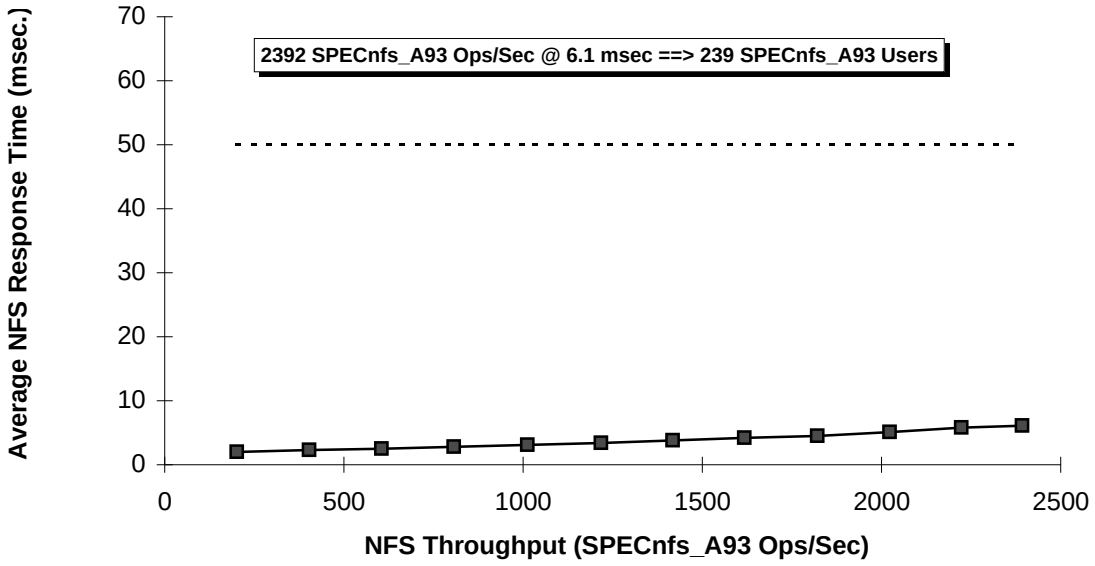
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	20
Fileset Size	13.0GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
202	2.0
404	2.3
605	2.5
808	2.8
1012	3.1
1218	3.4
1417	3.8
1618	4.2
1821	4.5
2023	5.1
2224	5.8
2392	6.1

Hardware Availability: Jan-97 **Software Availability:** Jan-97

License #: 950 **Tested:** Dec-96 **By:** Falcon **Of:** Sacramento, CA



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

The following command was placed in the CONFIG.NCF file

=sfs2_nra=1

JAS file system writes are synchronous to guarantee file system integrity against power interruptions.

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

Falcon Systems
FastfilePro 9000 - RAID 5

Detailed Server Description

Network Subsystem

1 DEC DEFPA-UA PCI CDDI Adapter
1 FDDI/CDDI Net (N1): 2 LGs

Disk Subsystem & Filesystems

Controller 1: Adaptec 2940W SCSI Disk Controller
Disks: 1 Seagate ST31051N 1GB
Contents: OS
Disks: 1 FF9420A 64MB Non-Volatile Solid-State Disk
Contents: File System Journals (F1-F12)
Controller 2: Mylex DAC960PD-3 RAID Controller with 8MB RAM and BBU
Disks: 20 Seagate ST34371W 4GB
Contents: F1-F4 (Each RAID 5: 4 Data Disks and 1 Parity Disk)
Controller 3: Mylex DAC960PD-3 RAID Controller with 8MB RAM and BBU
Disks: 20 Seagate ST19171W 9GB
Contents: F5-F8 (Each RAID 5: 4 Data Disks and 1 Parity Disk)
Controller 4: Mylex DAC960PD-3 RAID Controller with 8MB RAM and BBU
Disks: 20 Seagate ST19171W 9GB
Contents: F9-F12 (Each RAID 5: 4 Data Disks and 1 Parity Disk)

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Sun Ultra1 170	1	256MB	Solaris 2.5.1	SPARCWorks C 4.0
LG2	Sun Ultra2 170	2	192MB	Solaris 2.5.1	SPARCWorks C 4.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
Load Gen Number	Load Gen Type	Network	Target Filesys	Filesystem Mount Options
1	LG1	N1	F1,F3,F5...F11	Default
2	LG2	N1	F2,F4,F6...F12	Default

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