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

Sun Microsystems Inc.
Enterprise 3000/6

Server Hardware

CPU, Memory, & Power

Model No.	Model 3000/6
CPU	167MHz UltraSPARC
# of CPUs	6
Primary Cache	16KBI+16KBD on chip
Secondary Cache	512KB(I+D) off chip
Other Cache	None
Memory	1GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1 pre-FCS
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	3
Processes Per Load Generator:	40
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	121
Num File Systems	120

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	3
Num Networks	3
Type Network	100MBit Sun FastEthernet

Server Tuning

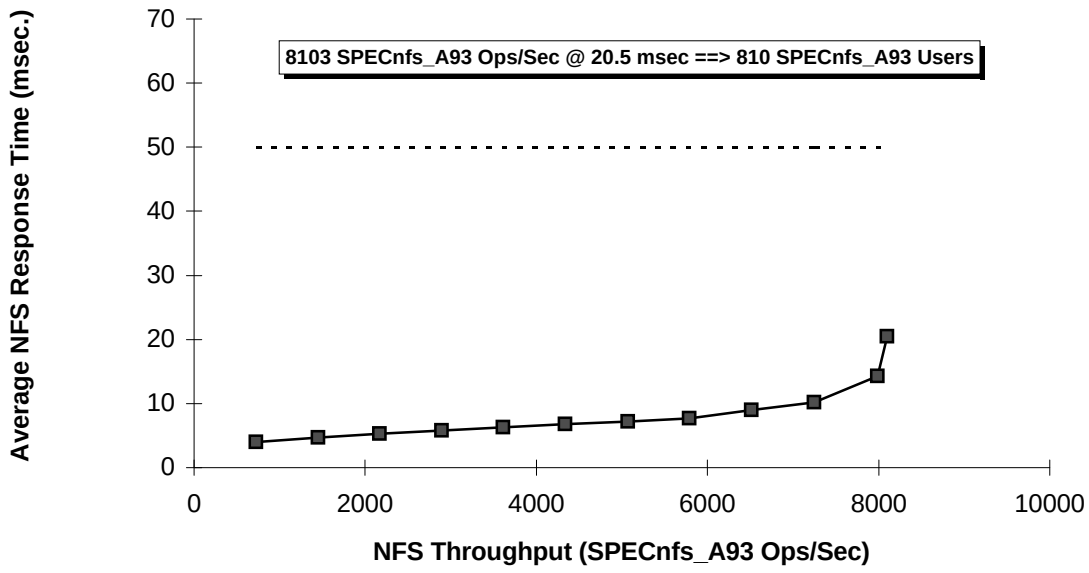
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	256
Fileset Size	44.8GB

Hardware Availability: May-96 **Software Availability:** May-96

License #: 6 **Tested:** Apr-96 **By:** Sun **Of:** Mountain View

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
723	4.0
1448	4.7
2172	5.3
2893	5.8
3613	6.3
4336	6.8
5072	7.2
5789	7.7
6516	9.0
7250	10.2
7986	14.3
8103	20.5



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

bufhwm=65536

IGNORE_KERNEL_PREEMPTION=1

ncsize=65536

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 3000/6

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 1 LGs
2 Sun FastEthernet (N2): 1 LGs
3 Sun FastEthernet (N3): 1 LGs

Disk Subsystem & Filesystems

Controller 1: On-board SCSI-2
Disks: 1 2GB 7200rpm

Controller 2-5:
Fiber Channel SBus (FC25/S) /Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 102 w/ 30 2GB 7200rpm drives
Contents 2: F1-F30
Contents 3: F31-F60
Contents 4: F61-F90
Contents 5: F91-F120

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra2-170	2	64MB	Solaris 2.5.1 pre-FCS	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F4,...,F118	default
2	LG1	N2	F2,F5,...,F119	default
3	LG1	N3	F3,F6,...,F120	default

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