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

Sun Microsystems Inc.

Ultra Enterprise 2 Model 2170

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 2 Model 2170
CPU	167MHz UltraSPARC
# of CPUs	2
Primary Cache	16KBI+16KBD on chip
Secondary Cache	512KB(I+D) off chip
Other Cache	None
Memory	1024MB
UPS	None
Other hardware	100BaseT

Server Software

OS Version	Solaris 2.5.1 BETA
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	3
Num Disks	61
Num File Systems	60

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	3
Num Networks	3
Type Network	100BaseT

Server Tuning

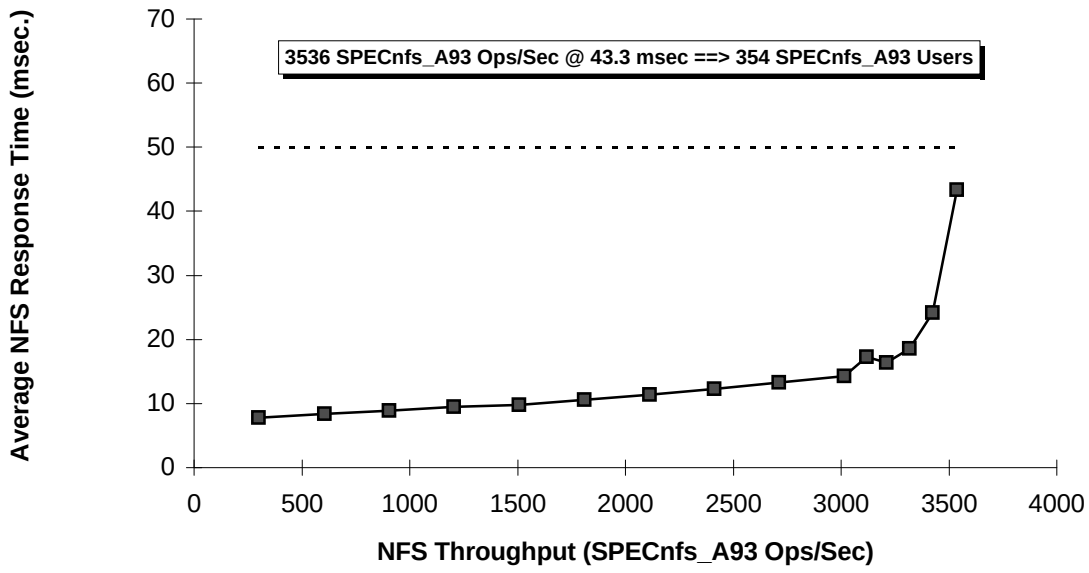
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	120
Fileset Size	19.0GB

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

License #: 6 **Tested:** Mar-96 **By:** Sun **Of:** Mountain View, CA

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
301	7.8
604	8.4
905	8.9
1206	9.5
1507	9.8
1810	10.6
2112	11.4
2412	12.3
2712	13.3
3015	14.3
3118	17.3
3210	16.4
3317	18.6
3423	24.2
3536	43.3



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

set IGNORE_KERNEL_PREEMPTION=1
set ncsize=65536
set bufhwm=65546
set minfree=512
set desfree=2048
set lotsfree=8192
set autoup=600
set tune_t_fsflushr=600

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

Sun Microsystems Inc.

Ultra Enterprise 2 Model 2170

Detailed Server Description

Network Subsystem

3 SunSwift 100BaseT Fast Ethernet Controller

Disk Subsystem & Filesystems

Controller 1: FEPS Fast Wide SCSI
Disks: 1 SCSI 2.1GB
Contents: OS, swap space
Controller 2-3: FiberChannel Sbus (FC25/S) w/
Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 112 w/ 30 2GB 7200rpm Drives
Contents 2: F1-F30 Contents 3: F31-F60

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra 2 Model 2170	2	64MB	Solaris 2.5.1 BETA	Sun C 4.2 Alpha

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1-5 F16-20 F31-F35 F46-F50	default
2	LG1	N2	F6-F10 F21-F25 F36-F40 F51-F55	default
3	LG1	N3	F11-F15 F26-F30 F41-F45 F56-F60	default

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

set hme:hme_adv_100fdx_cap = 1