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

Sun Microsystems Inc.
Ultra Enterprise 4002/8

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 4002
CPU	250MHz UltraSPARC II
# of CPUs	8
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4096KB(I+D) off chip
Other Cache	None
Memory	2.5GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	16
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	9
Num Disks	242
Num File Systems	240

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	8
Num Networks	8
Type Network	100MBit Sun FastEthernet

Server Tuning

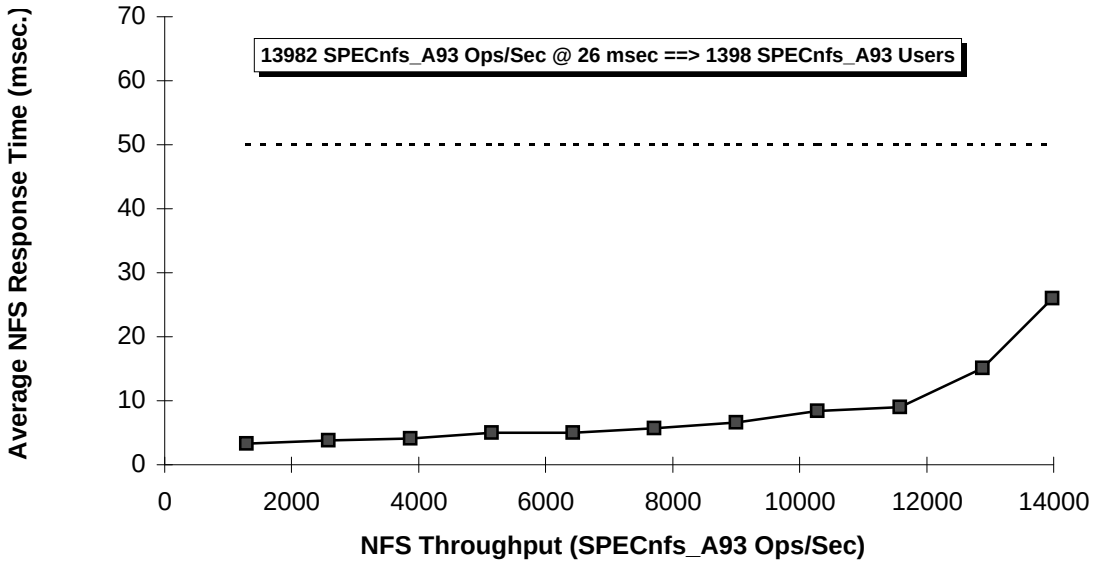
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	767
Fileset Size	73.1GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1287	3.3
2576	3.8
3868	4.1
5146	5.0
6431	5.0
7715	5.7
8997	6.6
10281	8.4
11583	9.0
12882	15.1
13982	26.0

Hardware Availability: Apr-97 **Software Availability:** May-96

License #: 6 **Tested:** Mar-97 **By:** Sun **Of:** Mountain View



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

IGNORE_KERNEL_PREEMPTION=1
ncsize=262144
bufhwm=524288

SSA fast_write enabled

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

Sun Microsystems Inc.
Ultra Enterprise 4002/8

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 2 LGs
2 Sun FastEthernet (N2): 2 LGs
3 Sun FastEthernet (N3): 2 LGs
4 Sun FastEthernet (N4): 2 LGs
5 Sun FastEthernet (N5): 2 LGs
6 Sun FastEthernet (N6): 2 LGs
7 Sun FastEthernet (N7): 2 LGs
8 Sun FastEthernet (N8): 2 LGs

Disk Subsystem & Filesystems

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

Controller 2-9: 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
Contents 6: F121-F150
Contents 7: F151-F180

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra1-170	1	64MB	Solaris 2.5.1	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F17,...,F225	default
2	LG1	N1	F2,F18,...,F226	default
3	LG1	N2	F3,F19,...,F227	default
4	LG1	N2	F4,F20,...,F228	default
5	LG1	N3	F5,F21,...,F229	default
6	LG1	N3	F6,F22,...,F230	default
7	LG1	N4	F7,F23,...,F231	default
8	LG1	N4	F8,F24,...,F232	default
9	LG1	N5	F9,F25,...,F233	default
10	LG1	N5	F10,F26,...,F234	default
11	LG1	N6	F11,F27,...,F235	default
12	LG1	N6	F12,F28,...,F236	default
13	LG1	N7	F13,F29,...,F237	default
14	LG1	N7	F14,F30,...,F238	default
15	LG1	N8	F15,F31,...,F239	default
16	LG1	N8	F16,F32,...,F240	default

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