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

Sun Microsystems Inc.
Enterprise 6000/12

Server Hardware

CPU, Memory, & Power

Model No.	Model 6000/12
CPU	167MHz UltraSPARC
# of CPUs	12
Primary Cache	16KBI+16KBD on chip
Secondary Cache	512KB(I+D) off chip
Other Cache	None
Memory	4GB
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:	18
Processes Per Load Generator:	13
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	238
Num File Systems	234

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	9
Num Networks	9
Type Network	100MBit Sun FastEthernet

Server Tuning

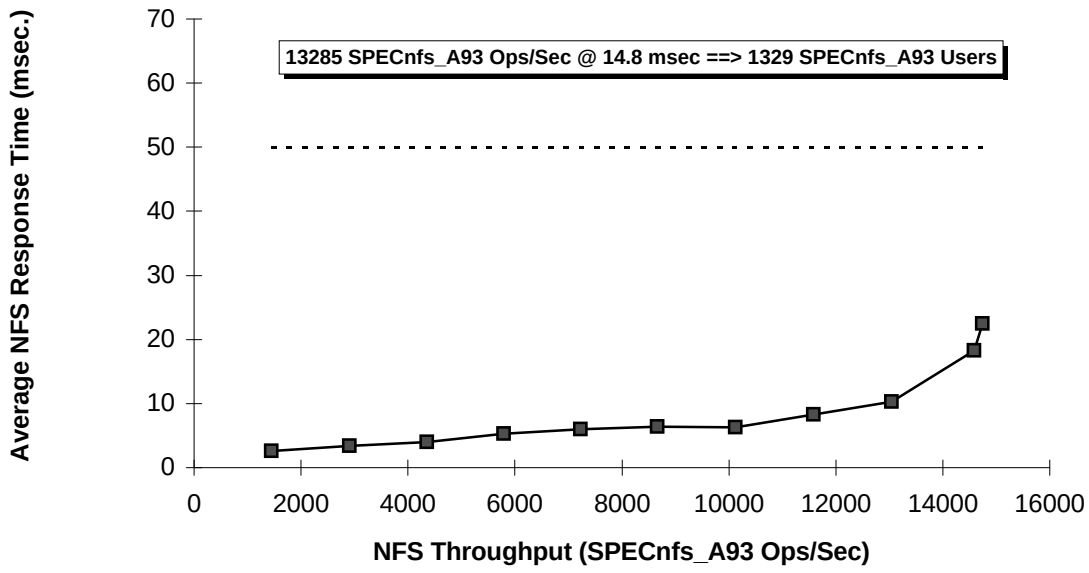
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	512
Fileset Size	82.2GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1447	2.6
2905	3.4
4352	4.0
5787	5.3
7234	6.0
8670	6.4
10121	6.3
11582	8.3
13047	10.3
14582	18.3
14747	22.5

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

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



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

bufhwm=131072

IGNORE_KERNEL_PREEMPTION=1

ncsize=131072

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 6000/12

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
9 Sun FastEthernet (N9): 2 LGs

Disk Subsystem & Filesystems

Controller 1: On-board SCSI-2
Disks: 4 2GB 7200rpm

Controller 2-13:
Fiber Channel SBUS (FC25/S) /Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 102 w/ 24 2GB 7200rpm drives
Contents 2: F1-F24 Contents 3: F25-F48
Contents 4: F49-F72

Disks: SPARCstorage Array 102 w/ 18 2GB 7200rpm drives
Contents 5: F73-F90 Contents 6: F91-F108
Contents 7: F109-F126 Contents 8: F127-F144

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	SS20-72	2	64MB	Solaris 2.5.1 pre-FCS	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1/2	LG1	N1	F1,F19,...,F217/F2,F20,...,F218	default
3/4	LG1	N2	F3,F21,...,F219/F4,F22,...,F220	default
5/6	LG1	N3	F5,F23,...,F221/F6,F24,...,F222	default
7/8	LG1	N4	F7,F25,...,F223/F8,F26,...,F224	default
9/10	LG1	N5	F9,F27,...,F225/F10,F28,...,F226	default
11/12	LG1	N6	F11,F29,...,F227/F12,F30,...,F228	default
13/14	LG1	N7	F13,F31,...,F229/F14,F32,...,F230	default
15/16	LG1	N8	F15,F33,...,F231/F16,F34,...,F232	default
17/18	LG1	N9	F17,F35,...,F233/F18,F36,...,F234	default

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