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

Sun Microsystems Inc.
Enterprise 6000/16

Server Hardware

CPU, Memory, & Power

Model No.	Model 6000/16
CPU	167MHz UltraSPARC
# of CPUs	16
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	6GB
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:	18
Processes Per Load Generator:	16
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	292
Num File Systems	288

Network Subsystem

(Full Configuration On Side 2)

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

Server Tuning

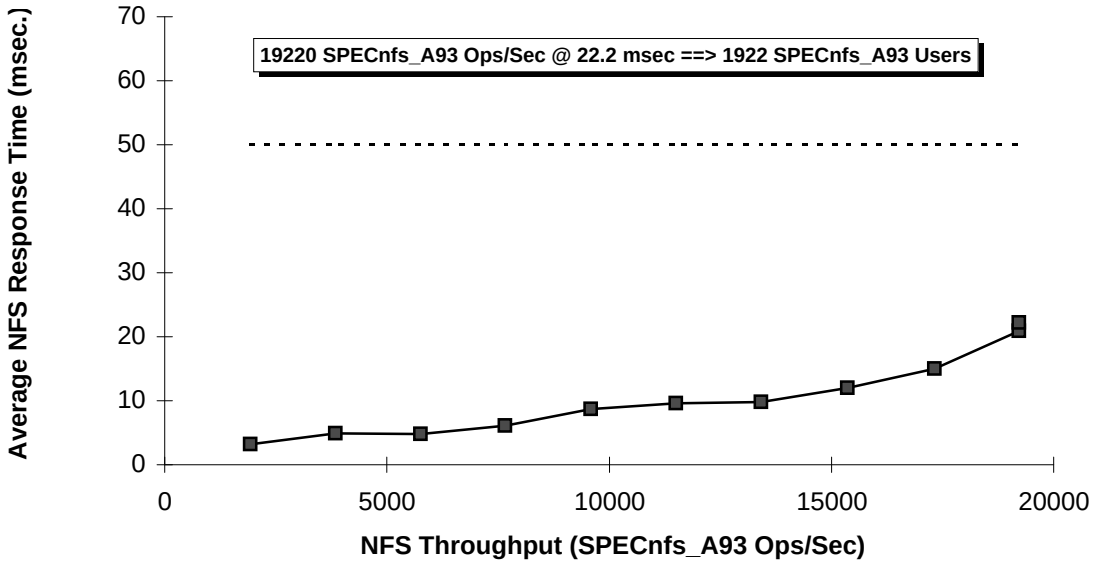
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	767
Fileset Size	101.8GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1923	3.2
3849	4.9
5757	4.8
7667	6.1
9584	8.7
11500	9.6
13419	9.8
15361	12.0
17324	15.0
19217	20.9
19220	22.2

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

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



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

IGNORE_KERNEL_PREEMPTION=1

ncsize=524288

bufhwm=524288

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 6000/16

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 Contents 5: F73-F96
Contents 6: F97-F120 Contents 7: F121-F144
Contents 8: F145-F168 Contents 9: F169-F192
Contents 10: F193-F216 Contents 11: F217-F240
Contents 12: F241-F264 Contents 13: F265-F288

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*
1/2	LG1	N1	F1,F19,...,F271/F2,F20,...,F272	
3/4	LG1	N2	F3,F21,...,F273/F4,F22,...,F274	
5/6	LG1	N3	F5,F23,...,F275/F6,F24,...,F276	
7/8	LG1	N4	F7,F25,...,F277/F8,F26,...,F278	
9/10	LG1	N5	F9,F27,...,F279/F10,F28,...,F280	
11/12	LG1	N6	F11,F29,...,F281/F12,F30,...,F282	
13/14	LG1	N7	F13,F31,...,F283/F14,F32,...,F284	
15/16	LG1	N8	F15,F33,...,F285/F16,F34,...,F286	
17/18	LG1	N9	F17,F35,...,F287/F18,F36,...,F288	

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