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	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:	14
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	256
Num File Systems	252

Network Subsystem

(Full Configuration On Side 2)

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

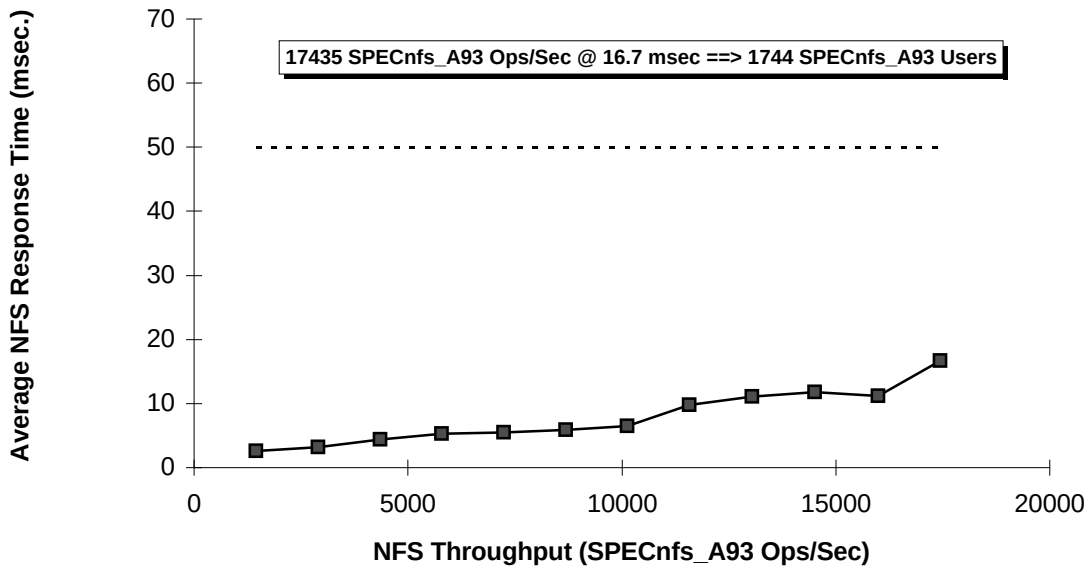
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	512
Fileset Size	89.7GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1445	2.6
2899	3.2
4348	4.4
5795	5.3
7235	5.5
8689	5.9
10126	6.5
11583	9.8
13043	11.1
14513	11.8
15987	11.2
17435	16.7

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 6000/16

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

Disks: SPARCstorage Array 102 w/ 18 2GB 7200rpm drives
Contents 8: F145-F162 Contents 9: F163-F180
Contents 10: F181-F198 Contents 11: F199-F216

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	rw,anon=0
3/4	LG1	N2	F3,F21,...,F219/F4,F22,...,F220	rw,anon=0
5/6	LG1	N3	F5,F23,...,F221/F6,F24,...,F222	rw,anon=0
7/8	LG1	N4	F7,F25,...,F223/F8,F26,...,F224	rw,anon=0
9/10	LG1	N5	F9,F27,...,F225/F10,F28,...,F226	rw,anon=0
11/12	LG1	N6	F11,F29,...,F227/F12,F30,...,F228	rw,anon=0
13/14	LG1	N7	F13,F31,...,F229/F14,F32,...,F230	rw,anon=0
15/16	LG1	N8	F15,F33,...,F231/F16,F34,...,F232	rw,anon=0
17/18	LG1	N9	F17,F35,...,F233/F18,F36,...,F234	rw,anon=0

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