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

Sun Microsystems Inc.

Ultra Enterprise 6001/10

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 6001
CPU	250MHz UltraSPARC II
# of CPUs	10
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	3GB
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

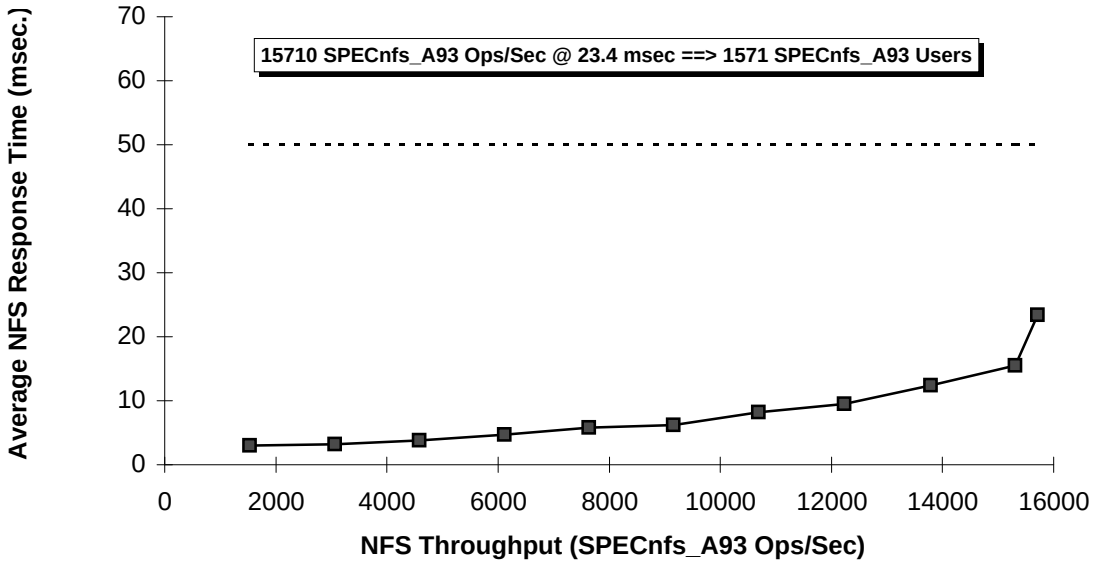
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	767
Fileset Size	86.3GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1530	3.0
3062	3.2
4590	3.8
6111	4.7
7637	5.8
9159	6.2
10690	8.2
12234	9.5
13783	12.4
15304	15.5
15710	23.4

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

License #: 6 **Tested:** Nov-96 **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 6001/10

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
Contents 8: F181-F210
Contents 9: F211-F240

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,F17,...,F225/F9,F25,...,F233	rw,anon=0
3/4	LG1	N2	F2,F18,...,F226/F10,F26,...,F234	rw,anon=0
5/6	LG1	N3	F3,F19,...,F227/F11,F27,...,F235	rw,anon=0
7/8	LG1	N4	F4,F20,...,F228/F12,F28,...,F236	rw,anon=0
9/10	LG1	N5	F5,F21,...,F229/F13,F29,...,F237	rw,anon=0
11/12	LG1	N6	F6,F22,...,F230/F14,F30,...,F238	rw,anon=0
13/14	LG1	N7	F7,F23,...,F231/F15,F31,...,F239	rw,anon=0
15/16	LG1	N8	F8,F24,...,F232/F16,F32,...,F240	rw,anon=0

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