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

Sun Microsystems Inc.

Ultra Enterprise 6001/12

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 6001
CPU	250MHz UltraSPARC II
# of CPUs	12
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	4GB
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:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	10
Num Disks	272
Num File Systems	270

Network Subsystem

(Full Configuration On Side 2)

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

Server Tuning

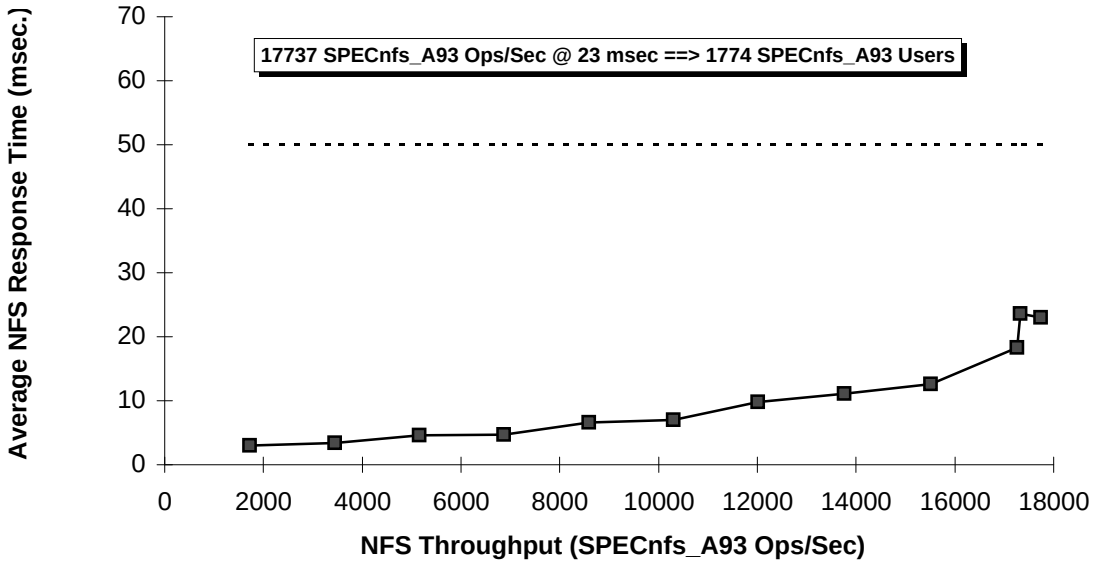
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	767
Fileset Size	93.4GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1721	3.0
3445	3.4
5164	4.6
6874	4.7
8591	6.6
10306	7.0
12011	9.8
13764	11.1
15510	12.6
17256	18.3
17321	23.6
17737	23.0

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 6001/12

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: 2 2GB 7200rpm

Controller 2-10: 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

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,...,F253/F10,F28,...,F262	rw,anon=0
3/4	LG1	N2	F2,F20,...,F254/F11,F29,...,F263	rw,anon=0
5/6	LG1	N3	F3,F21,...,F255/F12,F30,...,F264	rw,anon=0
7/8	LG1	N4	F4,F22,...,F256/F13,F31,...,F265	rw,anon=0
9/10	LG1	N5	F5,F23,...,F257/F14,F32,...,F266	rw,anon=0
11/12	LG1	N6	F6,F24,...,F258/F15,F33,...,F267	rw,anon=0
13/14	LG1	N7	F7,F25,...,F259/F16,F34,...,F268	rw,anon=0
15/16	LG1	N8	F8,F26,...,F260/F17,F35,...,F269	rw,anon=0
17/18	LG1	N9	F9,F27,...,F261/F18,F36,...,F270	rw,anon=0

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