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

Digital Equipment Corporation

AlphaServer 2000 4/233

Server Hardware

CPU, Memory, & Power

Model No.	AlphaServer 2000 4/233
CPU	233 MHz DECchip 21064A
# of CPUs	1
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1MB(I+D) off chip
Other Cache	None
Memory	1GB
UPS	None
Other hardware	Prestoserve

Server Software

OS Version	DEC OSF/1 V3.2
Other software	OSF patch # OSF32_60
File system	UFS

Load Generators (LGs)

Number of Load Generators:	4
Processes Per Load Generator:	6
Biod_Max_Reads:	32
Biod_Max_Writes:	32

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	25
Num File Systems	24 (F1-F24)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	1
Num Networks	1 (N1)
Type Network	FDDI

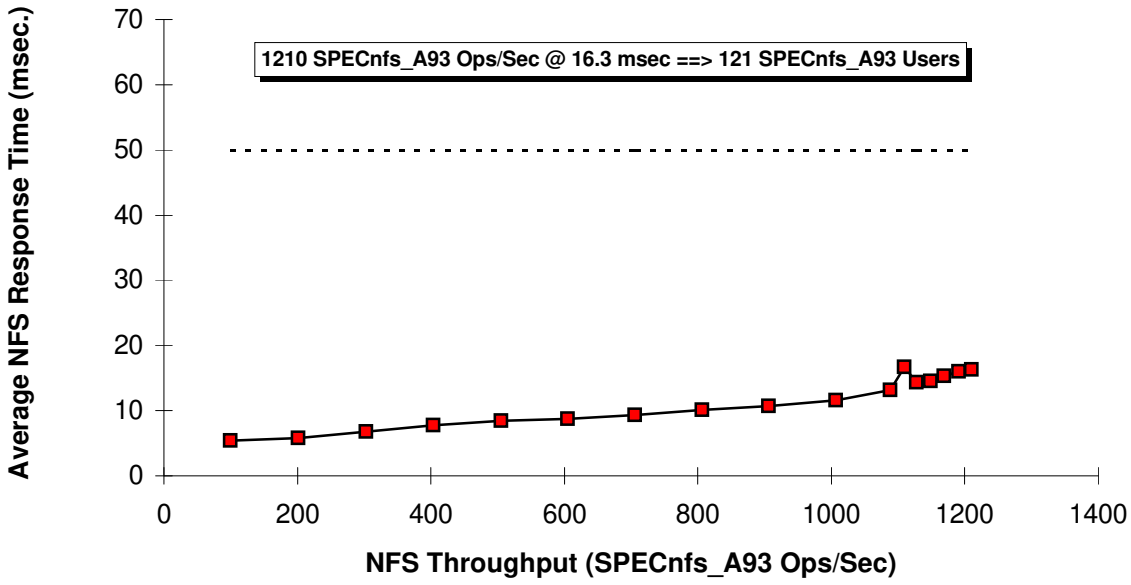
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic (UBC Cache)
Num NFS Daemons	32
Fileset Size	5.9GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
100	5.4
201	5.8
303	6.8
404	7.8
505	8.4
605	8.7
706	9.3
806	10.1
906	10.7
1007	11.6
1088	13.2
1109	16.7
1128	14.3
1149	14.5
1169	15.3
1191	16.0
1210	16.3

Hardware Availability:	Mar-95	**Software Availability:**	Mar-95				
License #:	2	**Tested:**	Mar-95	**By:**	Digital	**Of:**	Nashua, NH



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

bufcache: 10% (102 MB)
ubcbuffers: 1024
maxusers: 1024
ubc-maxdirtywrites: 100
prmetaonly: 1
vnode_age: 600
vnode_dealloc_enable: 0
ufs_disable_reada: 1

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

Digital Equipment Corporation

AlphaServer 2000 4/233

Detailed Server Description

Network Subsystem

1 DEC FDDI Controller (DEFPA-AA) on the Server
1 FDDI (N1): 4 LGs
1 DECconcentrator 500 (DEFCN-BC)

Disk Subsystem & Filesystems

1 On-board Adaptec 810 Controller:
Controller 1: 1 RZ26L 1.05 GB disk -- OS and swap
3 Mylex SWXR (EISA) controllers:
Controller 2: 6 RZ26L 1.05 GB disk (partition c) -- F1-F6
Controller 3: 6 RZ26L 1.05 GB disk (partition c) -- F7-F12
Controller 4: 6 RZ26L 1.05 GB disk (partition c) -- F12-F18
1 Mylex SWXR (PCI) controller:
Controller 5: 6 RZ26L 1.05 GB disk (partition c) -- F19-F24
1 PCI Prestoserve Filesystem Accelerator
Enabled for File systems F1-F24

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	DEC 3000 Model 600 AXP	1	64 MB	DEC OSF/1 V2.0	cc

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F7,F13,F19,F2,F8	Default
2	LG1	N1	F14,F20,F3,F9,F15,F21	Default
3	LG1	N1	F4,F10,F16,F22,F5,F11	Default
4	LG1	N1	F17,F23,F6,F12,F18,F24	Default

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

lad_sync: 1

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