

# **SFSC4AD**

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# Chapter 1

## SFSC4AD

### 1.1 SmartFileSystem Configuration For All Devices AmigaGuide documentation

SmartFileSystem Configuration For All Devices V3.2

Introduction

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### 1.2 Introduction

This is a small utility to set some parameters of all SmartFilesystem partitions.

You can set the cache, some data flush timeouts and the maximum filename length.

### 1.3 Legal

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The author are NOT responsible for any damage resulting from the use of this tool.

THERE ARE NO WARRANTIES !

SFSC4AD may be freely distributed. It is freeware!

## 1.4 Requirements

- AmigaOS 2.04
- 68020+
- SmartFilesystem 1.78+

## 1.5 Usage

Program may be started from CLI or from Workbench.

SFSC4AD has the following template:

```
L=LINES/K/N, RAHS=READAHEADSIZE/K/N,  
MXNL=MAXNAMELENGTH/K/N,  
AF=ACTIVITYFLUSH/K/N, INAF=INACTIVITYFLUSH/K/N,  
CPB=COPYBACK/K,  
P=PATTERN/K, F=FORCE/S, V=VERBOSE/S"
```

L=LINES/K/N (ToolType: LINES)

Cache lines to be used.

Please note: you can't set this option to less than 4 and more than 1024

RAHS=READAHEADSIZE/K/N (ToolType: READAHEADSIZE)

Number of !! KBytes !! each read ahead cache line should contain.

For example, 64 becomes 65536 bytes.

Please note: parameter will be rounded to a power of 2 automatically  
minimum for this option is 1 (1024)

MXNL=MAXNAMELENGTH/K/N (ToolType: MAXNAME)

Maximum filename length. Can be from 30 to 107.

AF=ACTIVITYFLUSH/K/N (ToolType: ACTFLUSHTIME)

Activity flush timeout.

The number of seconds after SFS must flush pending writes even when it is active.  
Can be from 5 seconds to 120 seconds.

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INAF=INACTIVITYFLUSH/K/N (ToolType: INACTFLUSHTIME)

Inactivity flush timeout.

The number of seconds after SFS must flush pending writes even when it is ←  
inactive.

Can be from 1 to 5.

This value is calculated like this  $(x * 0.5)$  where x is the value you supply as ←  
INAF.

e.g. if you enter 2 as INAF you set it to  $(2 * 0.5) = 1s$

CB=COPYBACK/K (Yes||No) (ToolType: COPYBACK)

Enable or disable copyback mode for the read ahead cache.

!!! There shouldn't be any reasons why you would like to do this !!!

P=PATTERN/K (ToolType: PATTERN)

Standard AmigaDOS pattern.

F=FORCE/S (ToolType: FORCE)

Forces check/configure of no defined or too old SFS devices

Please Note: IT CAN BE DANGEROUS !!

V=VERBOSE/S (ToolType: VERBOSE)

With this option SFSC4AD sends some more information to the serial port.  
If you do not have problems with SFSC4AD there is no need to use it.

None of this settings is permanent. SFS forgets them after reboot.  
To make them permanent, add the proper SFSC4Ad command line to your  
Startup-Sequence or User-Startup.

For Example: C:SFSC4AD L=16 RAHS=32

If you run program without arguments or with only PATTERN  
it gives you a list of all SFS devices and displays short info  
about all of it.

And final note: if you do not specify any of the parameters,  
the program will leave it with the actual state.

## 1.6 History

1.0: Created

1.1: Removed some enforcer hits  
Improved SFSCheck()

Added some more info in VERBOSE mode

1.2: Crash when device has no name, fixed

Crash when any device was mounted or unmounted when program running, fixed

Now prints all SFS devices information when run without parameters (PATTERN ←  
supported)

- Fixed some weird lockups when seeking SFS partitions ... I hope so :((
- 1.3: Fixed some problems with SFS device list
  - 1.4: Some optimization and cleanups
    - Modify Template
    - Add some more info in device list
  - 1.5: Removed IsFS() call when DOSList is locked
  - 2.0: Completely rewritten, for now it works in safer way
    - No longer sends some packets when DL is locked
    - Now checks the FS when DL is not locked
  - 2.1: Some cleanups
  - 2.2: Now you can start it from WB (for example WBStartup drawer)
    - Configure it using ToolTypes
  - 2.3: WB startup was broken, now fixed
    - Removed some enforcer hits when started from WB
  - 3.0: Better error handling added
    - READAHEADSIZE now accepts values in KBytes, then you must convert you'r ←  
SFSC4AD commandline or ToolTypes from bytes to KBytes  
for example if you have this set to 16384 now you enter 16
    - Some small bug fixes
    - Program do not relase internal queue when error ocured, fixed
    - General cleanups
    - Some file size optimization
  - 3.0a: Added notes for the LINES and READAHEADSIZE
    - Added SFSC tool
  - 3.1: Reduce Memory Fragmentation
    - Some Optimizations
    - Added check for SFS version, now requires a 1.78+
  - 3.2: Fixed handling of undefined SFS devices
    - Added F=FORCE/S switch

## 1.7 Bugs

As far as I know ... none.

## 1.8 ToDo

- Modify the List output
- Detach
- ... any sugestions ??

## 1.9 ThX

John Hendrikx - For wonderful SFS of coz :)  
Jörg Strohmayr - For keep it alive  
Sensei - for help to do this tool as good as possible  
OPI - for general support, testing and for some nice ideas

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## 1.10 Support

Email suggestions, bug reports to:

morgoth6@box43.pl

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