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*AHELP for CIAO 3.4*

## acis\_set\_ardlib

Context: [tools](#)

*Jump to:* [Description](#) [Examples](#) [Parameters](#) [CHANGES IN CIAO 3.2 NOTES](#) [Bugs](#) [See Also](#)

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## Synopsis

Sets the bad pixel parameters of the ardlb file to the given file

## Syntax

```
acis_set_ardlib badpixfile [absolutepath] [ardlibfile] [verbose]
```

## Description

This script tells ardlb to use the specified ACIS bad pixel file. It does this by setting the AXAF\_ACIS<n>\_BADPIX\_FILE parameters in the ardlb parameter file for all the blocks in the input file which match the string "BADPIX<n>". It does not work with HRC bad pixel files.

Each Chandra observation comes with an observation-specific bad pixel file (the \*bpix1.fits file in the primary/ directory of the distribution). It is also possible to create a bad pixel file in CIAO, with the "acis\_run\_hotpix" tool (see "ahelp acis\_run\_hotpix"). See the "[Use Observation-specific Bad Pixel Files](#)" and "[Identify ACIS Hot Pixels and Cosmic Ray Afterglows](#)" threads for more information.

## Example 1

```
unix% acis_set_ardlib bpix1.fits
```

This sets the ACIS bad pixel parameters to use bpix1.fits, for all the BADPIX<n> blocks in that file. The script will print out the settings of all the AXAF\_ACIS<n>\_BADPIX\_FILE parameters and the location of the ardlb parameter file.

## Example 2

```
unix% acis_set_ardlib ../bpix1.fits
```

This sets the ACIS bad pixel parameters to use ../bpix1.fits. Using the default parameter settings – namely absolutepath=yes – means that the file name will be changed to an absolute path before the parameter names are set.

## Example 3

```
unix% acis_set_ardlib bpix1.fits verbose=0
```

This runs the script without producing any screen output.

## Parameters

name	type	ftype	def	min	max	reqd
<u>badpixfile</u>	string	input	""			yes
<u>absolutepath</u>	boolean		yes			
<u>ardlibfile</u>	string	input	ardlib			
<u>verbose</u>	integer		0	0	5	

## Detailed Parameter Descriptions

**Parameter=badpixfile (string required filetype=input default="")**

*Bad pixel file for the observation.*

This parameter is used to specify the name of the bad pixel file to use in the ardlb parameter file. It is searched for blocks that are called "BADPIX<n>", and the corresponding AXAF\_ACIS<n>\_BADPIX\_FILE parameters in ardlb are set.

**Parameter=absolutepath (boolean default=yes)**

*Use an absolute path in the parameter file.*

Should the AXAF\_ACIS<n>\_BADPIX\_FILE parameters use the absolute path to the bad pixel file? If set to yes then the current working directory is prepended to the badpixfile parameter, which is then cleaned up to remove all occurrences of "." and "..". If set to no then the badpixfile parameter is used.

The following table shows what the AXAF\_ACIS0\_BADPIX\_FILE parameter would be set to when:

- the current working directory is /data/chandra/work,
- and the script is called with badpixfile set to "../obs/bpix1.fits", which contains a BADPIX0 block.

absolutepath parameter	AXAF_ACIS0_BADPIX_FILE setting
yes	/data/chandra/obs/bpix1.fits[BADPIX0]
no	../obs/bpix1.fits[BADPIX0]

**Parameter=ardlibfile (string filetype=input default=ardlib)**

*Parameter file to change.*

The name of the parameter file to change. This should be left as "ardlib" for most users.

**Parameter=verbose (integer default=0 min=0 max=5)**

*Verbosity (0 for no screen output)*

If set to 0 then the script will produce no screen output, other than parameter prompts, unless there is an error . When set to the default value of 1, the script will display the values of the AXAF\_ACIS<n>\_BADPIX\_FILE parameters after it has set them. Values of 2 and higher provide debugging information.

## CHANGES IN CIAO 3.2

Prior to CIAO 3.2 the script would look for a file that ended in "bpix1.fits" in either the working directory or in "./secondary/". The script now requires you to explicitly specify the file to use due to the introduction of the acis\_run\_hotpix tool.

## NOTES

This script is not an official part of the CIAO release but is made available as "contributed" software via the [CIAO scripts page](#). Please see the [installation instructions page](#) for help on installing the package.

## Bugs

See the [bugs page for this script](#) on the CIAO website for an up-to-date listing of known bugs.

## See Also

*calibration*

[ardlib](#)

*tools*

[acis\\_bkgrnd\\_lookup](#), [acis\\_fef\\_lookup](#), [acispec](#), [add\\_grating\\_orders](#), [add\\_grating\\_spectra](#), [asphist](#), [dither\\_region](#), [dmarfadd](#), [dmfilth](#), [dmregrid](#), [fullgarf](#), [mkacisrmf](#), [mkarf](#), [mkexpmap](#), [mkgarf](#), [mkgrmf](#), [mkinstmap](#), [mkpsf](#), [mkrmf](#), [mkwarf](#), [psextract](#), [psf\\_project\\_ray](#), [rmfimg](#), [speextract](#)



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URL:  
[http://cxc.harvard.edu/ciao3.4/acis\\_set\\_ardlib.html](http://cxc.harvard.edu/ciao3.4/acis_set_ardlib.html)  
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Ahelp: acis\_set\_ardlib – CIAO 3.4