

AH_{ELP} for CIAO 3.4

setback

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Synopsis

Sets attributes of a background dataset.

Syntax

```
sherpa> SETBACK [# [ID]] <arg> = <numeric>
```

where # specifies the number of the background dataset (default dataset number is 1). The ID modifier is used if and only if the Sherpa state object variable multiback is set to 1, i.e., if more than one background dataset is to be associated with a single source dataset. The ID modifier may be any unreserved string (e.g., A, foo, etc.), i.e., a string that is not a parsable command.

Description

The argument <arg> is one of the following options:

SETBACK Command Arguments

Argument	Description
BACKSCALE	A normalizing quantity which can indicate the the ratio of the area of the background extraction region in an image to the full image area.
TIME	The exposure time of the background observation.

The primary use of this command is to set the attributes of non-PHA datasets (e.g., ASCII datasets). Setting TIME affects the normalization of the background model, which is entered with the BACKGROUND command.

Setting BACKSCAL affects the relative normalization of the background model when it is applied to a source region. For instance, if the background model amplitude in a background dataset bin is M_B , the BACKSCAL of that dataset is B_B , and the BACKSCAL of the source dataset is B_S , then the contribution of the background to the source region spectrum is

$$M_B' = (B_S/B_B) * M_B$$

For related information, see SETDATA.

Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

See Also

chandra

[guide](#)

sherpa

[autoest](#), [back](#), [berrors](#), [bsyserrors](#), [coord](#), [data](#), [dataspace](#), [fakeit](#), [feffile](#), [group](#), [guess](#), [is subtracted](#), [load](#), [load arf](#), [load ascii](#), [load back from](#), [load backset](#), [load dataset](#), [load fitsbin](#), [load image](#), [load inst](#), [load inst from](#), [load pha](#), [load pha2](#), [load rmf](#), [read](#), [set analysis](#), [set axes](#), [set backscale](#), [set coord](#), [set data](#), [set exptime](#), [set subtract](#), [set weights](#), [setdata](#), [subtract](#), [ungroup](#), [unsubtract](#), [use](#)

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URL:
<http://cxc.harvard.edu/ciao3.4/setback.html>
Last modified: December 2006