

URL: http://cxc.harvard.edu/ciao3.4/data.html Last modified: December 2006

AHELP for CIAO 3.4

data

Context: sherpa

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Synopsis

Inputs the contents of one or more source data files.

Syntax

sherpa> DATA [#] <filespec> [, [#] <filespec>,...]

where # specifies the number of the dataset to be associated with this source data file (default dataset number is 1).

Description

Alternative means of reading in source datasets involve using the load functions of the Sherpa/S–Lang module (e.g., load_pha).

The help file for the READ command explains the <filespec> definition and has a listing of allowed file types; see also the related commands SOURCE, ERRORS, and SETDATA.

Using Data Model Filters

This command is able to take any Data Model virtual file specification (see "ahelp dmsyntax"). If you can do

```
unix% dmcopy "infile.fits[spec 1][spec 2]" outfile.fits
you can also do
```

sherpa> data "infile.fits[spec 1][spec 2]"

This is especially useful when working with very large files. For example:

sherpa> data "evt.fits[bin sky=4][opt mem=100]"

bins the event file by a factor of four and allocates additional memory. A similar command (omitting the binning factor) can be used to read in an image.

Example 1

Input an ASCII data file having a .dat extension name:

sherpa> DATA example.dat

This command reads the first two columns of the ASCII data file example.dat, as dataset number 1.

Example 2

Input an ASCII data file not having a .dat extension name:

sherpa> DATA example.qdp ASCII 1 2

This command reads columns 1 and 2 of the ASCII data file example.qdp, as dataset number 1.

Example 3

Input a FITS image data file:

sherpa> DATA 3 data/example_img.fits FITS This command reads the FITS image data/example_img.fits,as dataset number 3.

Bugs

See the <u>Sherpa bug pages</u> online for an up-to-date listing of known bugs.

See Also

chandra

guide sherpa

> autoest, back, berrors, bsyserrors, coord, 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, setback, setdata, subtract, ungroup, unsubtract, use

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