Chandra X-ray Center

AHELP for CIAO 3.4　　　**load_image**　　　Context: sherpa

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Synopsis

Module functions to load source and background data from a FITS image into Sherpa

Syntax

```
Integer_Type load_image([Integer_Type], {String_Type | Struct_Type})
Integer_Type load_bimage([Integer_Type], {String_Type | Struct_Type})

Success/Error Return Values: 1/0

Arguments:

(1) Data set number (default 1)

(2) FITS image filename, or

(2) S-Lang variable output by readimage()
```

Description

The function load_image() loads data from a FITS image file into a Sherpa data set. The function load_bimage() loads data from a FITS image file into the background associated with a Sherpa source data set. (The brackets indicate an optional letter in the function name, with ``[b]'' representing functions to use with background data. Note that background functions currently assume that the setting of multiback in the Sherpa state object is 0, i.e., that only one background dataset is allowed per source dataset.) WCS information is automatically loaded from the header into Sherpa, if it exists.

See the related Sherpa command READ for more information.

Example 1

```
sherpa> () = load_image(,"example.fits")
sherpa> () = load_image(1,"example.fits")
sherpa> () = load_bpha(,"example.fits")
sherpa> () = load_bpha(1,"example.fits")
```

The first two commands will load data from the FITS image file into Sherpa source data set 1. The last two commands will load data from the FITS image file into the background associated with Sherpa source data set 1.

Example 2

```
sherpa> foo = readimage("example.pha")
sherpa> () = load_image(1,foo)
```

Here the data are read into the S–Lang variable ``foo''. The load_image() function then reads the data from arrays which are part of the variable ``foo''.

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_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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