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 AHELP for CIAO 3.4

## load\_pha

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### Synopsis

Module function to load source and background data from PHA Type I files into Sherpa

### Syntax

```
Integer_Type load_pha([Integer_Type], {String_Type | Struct_Type})
Integer_Type load_bpha([Integer_Type], {String_Type | Struct_Type})
```

Success/Error Return Values: 1/0

Arguments:

- (1) Data set number (default 1)
- (2) PHA Type I filename, or
- (2) S-Lang variable output by readpha()

### Description

The function `load_pha()` loads data from a PHA Type I file into a Sherpa data set. The function `load_bpha()` loads data from a PHA Type I 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.)

If the file contains the header keywords `BACKFILE`, `RESPFILE`, and/or `ANCRFILE`, the background, RMF, and/or ARF file contents are automatically read in as well. (`BACKFILE` is ignored for `load_bpha`.)

See the related Sherpa command `READ` for more information.

### Example 1

```
sherpa> () = load_pha(,"example.pha")
```

```
sherpa> () = load_pha(1, "example.pha")
sherpa> () = load_bpha(, "example.pha")
sherpa> () = load_bpha(1, "example.pha")
```

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

## Example 2

```
sherpa> foo = readpha("example.pha")
sherpa> () = load_pha(1, foo)
```

Here the data are read into the S-Lang variable ``foo". The load\_pha() 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\\_image](#), [load\\_inst](#), [load\\_inst\\_from](#), [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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URL:  
[http://cxc.harvard.edu/ciao3.4/load\\_pha.html](http://cxc.harvard.edu/ciao3.4/load_pha.html)  
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