



 AHELP for CIAO 3.4

set_erron

Context: [sherpa](#)

Jump to: [Description](#) [Examples](#) [Bugs](#)

Synopsis

Switch on the drawing of error bars in Sherpa plots

Syntax

```
set_erron
set_xerron
set_yerron
```

Description

These commands allow a user to turn on the drawing of error bars in all Sherpa plots. A plotting command LPLOT needs to be issued in order for these commands to take effect.

Errors bars can be turned on or off in plots (from LPLOT) by setting the `x_errorbars` and `y_errorbars` fields in the corresponding Sherpa configuration variable (also called "state object") `sherpa.plot`, `sherpa.dataplot`, `sherpa.fitplot`, or `sherpa.resplot`.

The functions `set_erron`, `set_xerron`, and `set_yerron` allow you to change these fields in all the configuration variables (`sherpa.plot`, `sherpa.dataplot`, `sherpa.fitplot`, `sherpa.resplot`) in one go as shown in the following table:

Function Name	Description
<code>set_erron()</code>	Set <code>x_errorbars = 1</code> and <code>y_errorbars = 1</code>
<code>set_xerron()</code>	Set <code>x_errorbars = 1</code>
<code>set_yerron()</code>	Set <code>y_errorbars = 1</code>

Example 1

```
sherpa> set_erron
```

This turns on the drawing of errorbars (both in x and y directions) in all Sherpa plots.

Example 2

```
sherpa> set_xerron
```

This turns on the drawing of errorbars in only the x direction in all Sherpa plots.

Example 3

```
sherpa> set_yerron
sherpa> print(sherpa.fitplot.y_errorbars)
1
sherpa> lplot 2 fit delchi
```

The first command (`set_yerron`) turns on the drawing of errorbars in only the y direction in all Sherpa plots. The second command prints out the value of the `y_errorbars` field of the `sherpa.fitplot` variable; it is set to 1 because of the `set_yerron` command. The third command displays two plots with the errorbars in only the y direction.

Example 4

```
sherpa> set_yerron
sherpa> sherpa.fitplot.y_errorbars = 0
sherpa> lplot fit
```

The first command (`set_yerron`) turns on the drawing of errorbars in only the y direction in all Sherpa plots. The second command changes the `sherpa.fitplot` variable so that its `y_errorbars` field is set to 0 which means that "L PLOT FIT" will not include y error bars. The third command displays the fit with no errorbars in y direction.

Bugs

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

The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory.
60 Garden Street, Cambridge, MA 02138 USA.
Smithsonian Institution, Copyright © 1998–2006. All rights reserved.

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