Chandra X-ray Center

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

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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
set_erron()	Set x_errorbars = 1 and y_errorbars = 1
set_xerron()	Set x_errorbars = 1
set_yerron()	Set y_errorbars = 1

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 "LPLOT 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.