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

AHELP for CIAO 3.4

chips_set_yrange

Context: chips

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Synopsis

Set the upper and/or lower y−axis limits of the plot

Syntax

```
Integer_Type chips_set_yrange(range)
```

Description

Sets the limits of the plot's y−axis.

Arguments for chips_set_yrange

Name	Type	Options	Default
range	Numeric	a pair of numeric values, "auto", or "*" (see below)	auto

If a pair of values is used for the "range", it may either be two comma−separated values (minimum and maximum), or a single array whose first two elements will be used as minimum and maximum. The "*" character indicates no change in the current limit, while "auto" allows the underlying plotting package to select the limit value; both of these options must be quoted to work properly.

ChIPS converts double−precision numbers to floating−point values before plotting them, which can cause problems for values that are either too large or too small. The allowed range is approximately 1e−38 to 3e38 (for both positive and negative values).

The function returns a 0 on success and −1 on failure.

The current limits may be found with chips_get_yrange.

Example 1

```
chips> input=readfile("/data/chips/phas.fits")
chips> curve x input.x y input.y
```

```
chips> chips_set_yrange(−10,150)
0
```

A data file is read in and plotted, then the minimum and maximum values of the y−axis are changed.

Example 2

```
chips> spec=readfile("/data/threads/Chips/data1.pha")
chips> curve x spec.channels y spec.counts
chips> chips_set_yrange(10,"*")
0
chips> chips_set_yrange("auto","auto")
0
```

First, the lower limit of the plot is changed to 10, while the original upper limit is retained. The second "chips_set_yrange" command has the plotting package determine the best limits for the plot.

Bugs

See the bugs page for ChIPS on the CIAO website for an up−to−date listing of known bugs.

See Also

chips

chips_auto_redraw, chips_clear, chips_color_name, chips_color_value, chips_get_pane, chips_get_xrange, chips_get_xscale, chips_get_yrange, chips_get_yscale, chips_get_zrange, chips_get_zscale, chips_label, chips_line, chips_pickpoints, chips_redraw, chips_set_pane, chips_set_xrange, chips_set_xscale, chips_set_yscale, chips_set_zrange, chips_set_zscale, chips_split, chips_version

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