



 AHELP for CIAO 3.4

chips_set_xrange

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Synopsis

Set the upper and/or lower x-axis limits of the plot

Syntax

```
Integer_Type chips_set_xrange(range)
```

Description

Sets the limits of the plot's x-axis.

Arguments for chips_set_xrange

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 $3e^{38}$ (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_xrange`.

Example 1

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

```
chips> chips_set_xrange(749,890)
0
```

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

Example 2

```
chips> spec=readfile("/data/threads/Chips/data1.pha")
chips> curve x spec.channels y spec.counts
chips> chips_set_xrange(20,"*")
0
chips> chips_set_xrange("auto","auto")
0
```

First, the lower limit of the plot is changed to 20, while the original upper limit is retained. The second "chips_set_xrange" 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 xscale](#), [chips set yrange](#), [chips set yscale](#), [chips set zrange](#), [chips set zscale](#), [chips split](#),
[chips version](#)