



AHELP for CIAO 3.4

## chips\_set\_yrange

Context: [chips](#)

*Jump to:* [Description](#) [Examples](#) [Bugs](#) [See Also](#)

## 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](#)

---

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/chips\\_set\\_yrange.html](http://cxc.harvard.edu/ciao3.4/chips_set_yrange.html)  
Last modified: December 2006