



AHELP for CIAO 3.4

## chips\_get\_xrange

Context: [chips](#)

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### Synopsis

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

### Syntax

```
Integer_Type chips_get_xrange()
```

### Description

Determines the limits of the plot's x-axis. On success, two float values will be returned. Two NULLs are returned on error (e.g. if there is no drawing area). Note that the limits returned are those used internally by ChIPS to draw the plot axes, so they may not match the numeric limits of the plotted data.

To return either the minimum or the maximum value, the syntax

```
(xmin,) = chips_get_xrange()  
(,xmax) = chips_get_xrange()
```

can be used.

The limits may be adjusted with `chips_set_xrange`.

### Example 1

```
chips> input=readfile("/data/chips/phas.fits")  
chips> curve x input.x y input.y  
chips> (xmin,xmax) = chips_get_xrange()  
chips> vmessage("xmin = %f, xmax = %f",xmin,xmax)  
xmin = 751.849976, xmax = 887.150024
```

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

## Example 2

```
chips> spec=readfile("/data/threads/Chips/data1.pha")
chips> curve x spec.channels y spec.counts
chips> (,rmax) = chips_get_xrange()
chips> print(rmax)
72.45
```

Here only the upper (maximum) x-axis limit was desired.

## 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 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 yrange](#), [chips set yscale](#), [chips set zrange](#), [chips set zscale](#), [chips split](#), [chips version](#)

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URL:  
[http://cxc.harvard.edu/ciao3.4/chips\\_get\\_xrange.html](http://cxc.harvard.edu/ciao3.4/chips_get_xrange.html)  
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