![Chandra X-ray Center logo]

AHELP for CIAO 3.4   **chips_get_xrange**   Context: chips

Jump to: Description Examples Bugs See Also

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