



 AHELP for CIAO 3.4

chips_set_zrange

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Synopsis

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

Syntax

```
Integer_Type chips_set_zrange(range)
```

Description

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

Arguments for chips_set_zrange

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_zrange`.

Example 1

```
chips> surface tabbed.data 0 150
chips> chips_set_zrange(-10,140)
```

```
0
```

The minimum and maximum values of the z-axis for a surface plot are changed.

Example 2

```
chips> surface tabbed.data 0 100
chips> chips_set_zrange(-25,"*")
0
chips> chips_set_zrange("auto","auto")
0
```

First, the lower limit of the plot is changed to -25 , 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 yrange](#), [chips set yscale](#), [chips set zscale](#), [chips split](#),
[chips version](#)

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URL:
http://cxc.harvard.edu/ciao3.4/chips_set_zrange.html
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