Subject: Re: Reversing an axis with IDLgrAxis Posted by Mark Hadfield on Tue, 02 Feb 1999 08:00:00 GMT View Forum Message <> Reply to Message

- > OK, I give. I would like to plot an axis (object graphics) with values
- > descending rather than ascending in the normal positive direction. I can do
- > this using (XY)COORD CONV, but when I do, the tick text and axis title are
- > reversed as well (mirror image) and I can't figure out how to reverse them
- > back to read normally.

Plot against the inverse of the variable and get the labels you want via the TICKFORMAT property. The TICKFORMAT NEGATIVE function below is designed to do this.

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NAME:

TICKFORMAT_NEGATIVE

PURPOSE:

This function is designed for use with the TICKFORMAT property of IDLgrAxis.

Given a real value, it returns a string representing the inverse of that value.

CATEGORY:

Miscellaneous

Object graphics

CALLING SEQUENCE:

Result = FUNCTION_NAME(Direction, Index, Value)

INPUTS:

Direction: Axis direction, required by the TICKFORMAT interface but ianored.

Index: Axis index, required by the TICKFORMAT interface but

ignored.

The real value to be formatted. Value:

OUTPUTS:

The function returns a scalar string.

EXPLANATION:

IDLgrAxis objects always have the values increasing from left to right. The axis can be reversed, but then the axis labels are seen from behind! So to get an axis with values decreasing from left to right, we have to plot the inverse of the variable and reformat the axis labels.

TO DO:

Allow format control via the DATA keyword.

MODIFICATION HISTORY:

Mark Hadfield, Jun 1998:

Written.

function TICKFORMAT_NEGATIVE, Direction, Index, Value

return, (format_axis_values(-Value))[0]

end