Subject: Re: Limits of custom axis
Posted by David Fanning on Mon, 03 Apr 2006 13:48:51 GMT
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burkina writes:

> I'm plotting an astronomical image with imcontour, suppressing two
> axes:
>
> imcontour, alog10(sm), hdr, position=pos, Levels=vals,
> color=fsc_color('white'), TYPE=0,/keep_aspect, /noerase, xstyle=8,
> ystyle=8, XMID=xmid, YMID=ymid
>
> I want those two axes to show a distance in pc, instead of arcsec.
> That's why I use:
>
> axis, xaxis=1, xrange=[9.5*dist, -16.5*dist], xstyle=1, xtitle="pc",
> /save,color=fsc_color('black')
>
> where dist is the distance in pc corresponding to 1 arcsec for that
> source.
> The problem is that I get the numbers 9.5 and -16.5 directly by eye. I
> wish I had a command which would return exactly the lower and upper
> limit of the axis created by imcontour.
> How can I do that?

I think you are looking for ![XYZ].CRANGE.

```
  axis, xaxis=1, xrange=[!X.CRange[0]*dist, !X.CRange[1]*dist], $
    xstyle=1, xtitle="pc, etc.
```

> I would also like to plot the contours in white, the ticks also in
> white, but the ticknumbers in black.
> All I can do now is to plot the contours in white and then call another
> time imcontour with /nodata and plot the rest in black. But I would
> like to draw the ticks also in white....

Be careful what you wish for: you could probably do this in
object graphics. :-)

Cheers,

David

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