Subject: Re: overlaying arrow plots
Posted by David Fanning on Wed, 01 Nov 2006 14:00:51 GMT
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## metachronist writes:

- > I used convert\_coord to convert the time indices (1sec
- > data-1,2,3,4,....etc.) to device coordinates and kept the second
- > coordinate, a constant. How can I overlay the arrowplots created from
- > the 1D timeseries on the same 'postscript' plot with the time series
- > and on a map projection? And is there a better way to tackle such
- > problems?

Well, let's just say that of the three coordinate systems available, you chose the only one that isn't going to work for you in PostScript. :-)

Put your arrows and other overlays into DATA or NORMAL coordinates and you will be golden.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: overlaying arrow plots
Posted by news.verizon.net on Wed, 01 Nov 2006 20:34:52 GMT
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## metachronist wrote:

- > Dear All,
- >
- > I started using IDL more only recently. So please be kind :-) I have
- > made arrow plots from a 1D timeseries using one arrow, which in turn
- > calls one\_ray. I want to be able to overlay these vector plots on maps
- > and regular x-y plots of the timeseries/other derived quantities.

one\_arrow and one\_ray are old routines from the IDL Astronomy Library and are not part of the standard IDL distribution. They only accepted device coordinates, so you had to be careful to convert both the arrow position and length to device coordinates. If you just want to draw an arrow without annotation, then you might have better

luck with the standard IDL routine ARROW, which accepts /DATA and /NORMAL keywords.

I have now updated one\_arrow.pro so that it accepts both /DATA and /NORMAL keywords (at http://idlastro.gsfc.nasa.gov/ftp/pro/misc/)

--Wayne

Subject: Re: overlaying arrow plots
Posted by rkombiyil on Thu, 02 Nov 2006 05:49:51 GMT
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Hi Wayne,

Thanks for your time and help! Yes, I could overlay them arrows without any problems now. I chose one\_arrow because it accepts angles as input (Maybe I could do the same with ARROW also, I haven't checked the code/syntax yet.). My angles are time dependent.

Hmm, at first glance it seems like them arrows are inverted?? For example, my min(angle) is 36.3610 and max(angle) is 124.032. So these should be plotted pointing in the north-east and north-west respectively?? I mean, aren't the angles counterclockwise from +x? The directions were fine earlier. I didn't read your modifications yet. But now directions seem off. FYI.

```
After I do:
--
plot,time,tseries
--
I make a call to one_arrow via:
--
for i=0,n_elements(tseries)-1 do $
  one_arrow,time(i),zeroarray(i),angle[i],",arrowsize=[(angle [i]/maxangle),9.0,35.0],charsize=0.1,thick=1.
--
Thanks for the modifications and the help!
Cheers,
```

Wayne Landsman wrote:

- > metachronist wrote:
- >> Dear All.
- >>

/rk

- >> I started using IDL more only recently. So please be kind :-) I have
- >> made arrow plots from a 1D timeseries using one\_arrow, which in turn

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>
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                                                        If you just
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> --Wayne
```