Subject: problem with vector plots
Posted by rkombiyil on Fri, 07 Dec 2007 09:10:08 GMT
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Greetings all!
I am trying to plot vectors using one_arrow. For example, If the aspect ratio is 1 (!x.crange=!y.crange), then I can see nice sexy looking vectors.. In data coordinates, the arrowsize is scaled by(!x.crange[1]-!x.crange[0])/512 in the original program. When the aspect ratio changes (for example),

```
IDL> print,!x.crange
     28797.000      84597.000
IDL> print,!y.crange
     0.0000000      80.000000
```

then the "angle information" is lost (meaning, they appear as small straight lines and "not" drawn based on the angle and neither can I see the arrow head). This happens when I scale the arrowsize by large number to make it fit within the plot window. To give an example of what I am trying to do:

```
;-------- code snippet ------------------
;ori_scale is (!x.crange[1]-!x.crange[0])/512
inv_scale=1./ori_scale
for i=!x.crange[0],!x.crange[1],3600L do one_arrow,i,
40.,a[i],'',arrowsize=[30.,9.,35.]*inv_scale,/data
;---------------------------------------------
```

a[i] has the angle info and I tried to cheat by setting !x.crange=!y.crange and also tried different scalings (as a function of ratio between !x.crange and !y.crange), but no luck :(
I am short on time.. any help/suggestions greatly appreciated!
Thank you in advance for your time and help.
/rk