Subject: problem with plot
Posted by nakisa on Mon, 12 Nov 2007 14:50:56 GMT
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Hi everybody
I am new in IDL , I want to plot data which restored in txt file and
plot by below code.


```
pro test
A_x=fltarr(1)
A_y=fltarr(1)
fn='F:\test.txt'
openr,1,fn
repeat begin
readf,1,x,y
;A_x(*)=x
;A_y(*)=y
plot,A_x,A_y
endrep until eof(1)
close,1
;plot ,A_x,A_y,PSYM=4,Title="test"
END
```


It runs ,but plot only a frame!! Can anybody say me where the error
is ?
Best,Nakisa

Subject: Re: problem with plot
Posted by David Fanning on Tue, 13 Nov 2007 05:36:52 GMT
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nakisa writes:

> I use 5.4 version, and as far as i searching thorough internet ,
> "file_lines" works in 5.6 version.
> so i can't use it !!

Ah, well. Try COUNT_ROWS here:

  http://www.dfanning.com/programs/count_rows.pro

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: problem with plot
Posted by David Fanning on Tue, 13 Nov 2007 17:01:48 GMT

Allan Whiteford writes:

> I'd prefer:
>
> pro test
>   plot,((_=read_ascii("F:\test.txt"))).(0)[0,*],_.(0)[1,*]
> end
>
> but I'm not paid by the number of lines of code I write :).
>
> In all seriousness, though, is there a reason to avoid read_ascii for
> things like this or were you just trying to use as much of the original
> structure as possible?

I was really trying to use this as a teachable moment for
the "IDL Way". :-)

READ_ASCII is great if you have 10 or 100 rows of data.
It is slow, slow, slow if you have a LOT of rows. This is
because it, by necessity, has to use the line by line
data reading method.

Plus, it so damn inelegant (IMHO) I've never used it, so
I just never think about it as a solution. :-)

Cheers,

David

--
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Subject: Re: problem with plot
Posted by nakisa on Wed, 14 Nov 2007 02:38:04 GMT

hi
I try " COUNT_ROWS " function , it works nicely and give answer very
soon.
thanks,nakisa

Subject: Re: problem with plot
Posted by nakisa on Wed, 14 Nov 2007 10:18:11 GMT
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Hi again
I have two other questions:
1) how can I use color in plots, I see some commands ,but most of them
doesn't agree with "plot " . I want to draw three plots with different
colors in one frame, I know "oplot" do this for me, but I can't
specify each plot a one color! What should I do?

2) I have a 3 dimensional data, (x,y,z) , is there any way to plot a
contour of these data ? for using contour and mesh , z must bas 2
dimensional array. But here I have only one dimensional array for z .
I write "contour z,x,y " IDL doesn't run.
Best, Nakisa

Subject: Re: problem with plot
Posted by David Fanning on Wed, 14 Nov 2007 13:29:20 GMT
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nakisa writes:

> I have two other questions:
> 1) how can I use color in plots, I see some commands ,but most of them
> doesn't agree with "plot " . I want to draw three plots with different
> colors in one frame, I know "oplot" do this for me, but I can't
> specify each plot a one color! What should I do?

The one color you have doesn't happen to be red, does it?
I would guess a DEVICE, DECOMPOSED=0 might help. Otherwise,
there is a LOT of color information on my web page.

> 2) I have a 3 dimensional data, (x,y,z) , is there any way to plot a
> contour of these data ? for using contour and mesh , z must bas 2
> dimensional array. But here I have only one dimensional array for z .
> I write "contour z,x,y " IDL doesn't run.

If your version of IDL supports it, you can try setting
the IRREGULAR keyword on your contour command. Otherwise,

you will have to grid the data yourself with TRIANGULATE
and TRIGRID.

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: problem with plot
Posted by nakisa on Fri, 16 Nov 2007 14:11:26 GMT
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Hi david,thanks of the pervious answer.

I need to plot something what vel.pro plots but not precisely it.
I must plot on each (x, y) a vector with (v_x , v_y) values. In vel
and other IDL's function the value of vector on each point is
constant, but here in my plot, the value of vector are important .
Can you guide me ?
Best, Nakisa

Subject: Re: problem with plot
Posted by David Fanning on Fri, 16 Nov 2007 14:37:24 GMT
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Nakisa writes:

> I need to plot something what vel.pro plots but not precisely it.
> I must plot on each (x, y) a vector with (v_x , v_y) values. In vel
> and other IDL's function the value of vector on each point is
> constant, but here in my plot, the value of vector are important .
> Can you guide me ?

   http://www.dfanning.com/graphics_tips/vectors.html

Cheers,

David
--
David Fanning, Ph.D.

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Subject: Re: problem with plot
Posted by nakisa on Sat, 17 Nov 2007 12:23:44 GMT

thanks David, it works very good.
nakisa