Subject: Re: Help with PLOTS
Posted by meron on Fri, 16 Feb 1996 08:00:00 GMT
View Forum Message <> Reply to Message

In article <4g2r6b\$i1k@maze.dpo.uab.edu>, rkj@dukebar.crml.uab.edu (R. Kyle Justice) writes: > Can anyone help with the following problem using > PV-Wave's PLOTS function: > I have two arrays(xarr, yarr), one containing x and the other > containing y coordinates that I want to plot on top of > an image. > The following command does not give me what I want and I > can't figure out why: > PLOTS, [xarr,xarr], [yarr,yarr], /Device > > If I use a loop I get the desired results, but it is > quite slow at plotting the points: > FOR i=0,N ELEMENTS(xarr)-1 DO PLOTS, \$ [xarr(i),xarr(i)], [yarr(i),yarr(i)], /Device > (xarr and yarr have the same number of elements) > > I know there has to be a way to plot the points > using array notation without looping . . . > Just do

PLOTS, XARR, YARR [optional keywords here]

By doubling the array (the way you did it) you loop back from your last point to the first one, introducing an extra straight line. Is this what happened?

Mati Meron | "When you argue with a fool, meron@cars3.uchicago.edu | chances are he is doing just the same"

Subject: Re: Help with PLOTS
Posted by Ken Knighton on Sat, 17 Feb 1996 08:00:00 GMT
View Forum Message <> Reply to Message

rkj@dukebar.crml.uab.edu (R. Kyle Justice) wrote: > Can anyone help with the following problem using

```
> PV-Wave's PLOTS function:
> I have two arrays(xarr, yarr), one containing x and the other
> containing y coordinates that I want to plot on top of
> an image.
> The following command does not give me what I want and I
> can't figure out why:
> PLOTS, [xarr,xarr], [yarr,yarr], /Device
In IDL or PV-Wave, you could use the PSYM keyword:
PLOTS, xarr, yarr, /DEVICE, PSYM=3
                                        ;or other symbols. see manual
I hope this helps.
Ken Knighton
                      knighton@gav.gat.com
                                                knighton@cts.com
General Atomics
San Diego CA
```

Subject: Re: Help with PLOTS
Posted by rkj on Mon, 19 Feb 1996 08:00:00 GMT
View Forum Message <> Reply to Message

```
Ken Knighton (knighton@gav.gat.com) wrote:
: rkj@dukebar.crml.uab.edu (R. Kyle Justice) wrote:
: >Can anyone help with the following problem using
: >PV-Wave's PLOTS function:
: >
: >I have two arrays(xarr, yarr), one containing x and the other
: >containing y coordinates that I want to plot on top of
: >an image.
: >
: >The following command does not give me what I want and I
: >can't figure out why:
: >
: >PLOTS, [xarr,xarr], [yarr,yarr], /Device
: >
```

: In IDL or PV-Wave, you could use the PSYM keyword:

: PLOTS, xarr, yarr, /DEVICE, PSYM=3 ;or other symbols. see manual

: I hope this helps.

: Ken Knighton knighton@gav.gat.com knighton@cts.com

: General Atomics : San Diego CA

Thanks Ken and Mati!

Using PSym=3 was all that I needed. And to think I wasted several hours before posting . . . :)

When I did not use PSym, the last and first points in the arrays were connected as was suggested. This was a problem since I wanted to fill in part of insersecting polylines. I have an outer contour and an inner contour and I want to fill only the "doughnut" and not the "hole." Who knows, there is probably a way to do this POLYFILL but I could not figure it out. I did use POLYFILLV to get the points inside the two overlapping boundaries.

Kyle

"In abundance of counselors there is victory." - Proverb

Subject: Re: Help with PLOTS
Posted by Sergei Senin on Mon, 19 Feb 1996 08:00:00 GMT
View Forum Message <> Reply to Message

rkj@dukebar.crml.uab.edu (R. Kyle Justice) wrote:

- > Can anyone help with the following problem using
- > PV-Wave's PLOTS function:

>

- > I have two arrays(xarr, yarr), one containing x and the other
- > containing y coordinates that I want to plot on top of
- > an image.
- >

>

- > The following command does not give me what I want and I
- > can't figure out why:
- > PLOTS, [xarr,xarr], [yarr,yarr], /Device
- > If I use a loop I get the desired results, but it is
- > quite slow at plotting the points:

```
> FOR i=0,N_ELEMENTS(xarr)-1 DO PLOTS, $
   [xarr(i),xarr(i)], [yarr(i),yarr(i)], /Device
> (xarr and yarr have the same number of elements)
> I know there has to be a way to plot the points
> using array notation without looping . . .
> Kyle J.
>
>
I just tried it:
;;image from pv-wave examples
openr, 1, filepath('head.img', subdir='data')
head_ls=bytarr(512, 512)
readu, 1, head Is
close, 1
tv, head Is
a=findgen(100)
c=a^3
b=a^2
plots, a, c
plots, a, b
It gave me two curves (c and b) plotted over this image
When I used "device" keyword, it...well... didn't work. (I think the
explanation is in the Reference book)
Making plots as
plots, [a, a], [b, b]
gives two curves: a=a and b=a^2
S.S.
ss@ee.port.ac.uk
http://www.ee.port.ac.uk:80/~ss-www/ruspage.html
```

Subject: Re: Help with PLOTS
Posted by Sergei Senin on Mon, 19 Feb 1996 08:00:00 GMT
View Forum Message <> Reply to Message