
Subject: Re: cursor command

Posted by [Russell Ryan](#) on Tue, 02 Apr 2013 19:04:50 GMT

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Two things.

(1) Of course you get an error. Did you read the webpage I sent you? It says that cursor has two *MANDATORY* outputs, and you only gave it one. So, of course it's going to throw an error.

(2) Again, you didn't really answer the question. What are you trying to do? Because your code seems to say you want to contour the image *INSIDE* the while loop? That doesn't make any sense to me. It seems you probably want to contour the image *OUTSIDE* the while loop, then move the cursor around inside the plot window? If so, then you still need to ask yourself what you want those (x,y) pairs *FOR*? Do you want the return the value of the contour, that seems logical? If so, then you need to first plot the contour. Then start the while loop. You've got the logic correct there. Look at the webpage I sent you, you need to give cursor a variable for the x and y separately, then a variable specifying *WHEN* to return (ie. does cursor return when you press a mouse button? does it return constantly? does it return when you release the mouse button?) Then set the units. You've set device, which I doubt is what you want (but might be). The device coordinates tell you the position *IN PIXELS* in the device, but the plot need not be anywhere in the device (in fact you can set that in contour). I'm guessing you probably want /data, but that's just a hunch. Either way, this call to cursor (once you get it right), goes inside the while loop (presumably). Then I suppose you want to do something with those x y variables? If so, then that goes there.

Good Luck,
Russell

On Tuesday, April 2, 2013 2:42:51 PM UTC-4, gpet...@ucsc.edu wrote:

> On Tuesday, April 2, 2013 11:04:48 AM UTC-7, rr...@stsci.edu wrote:

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>> On Tuesday, April 2, 2013 1:57:36 PM UTC-4, gpet...@ucsc.edu wrote:

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>>> On Tuesday, April 2, 2013 10:04:49 AM UTC-7, gpet...@ucsc.edu wrote:

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>>>> Can you use the cursor command on a 2d contour map?

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>>> Could anyone explain how this procedure works.I am not really finding anything on the
internet.
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>> Cursor is a way of grabbing an (x,y) coordinate pair from the mouse action. You have options
on when (x,y) is returned, for example is it returned when you press the mouse button, when you
release the button, or move the mouse, etc. (as set by the wait variable). The (x,y) pair will be
returned in whatever units you like (whether normal, device, or data), which is useful depending
on your purpose.
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>> http://www.exelisvis.com/docs/CURSOR_Procedure.html
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>> As for your question about contour. I assume you're using the contour procedure (as opposed
to the contour function). In which case, what you do next depends on what you want from the
(x,y) pair --- and I can't answer that for you. Do you want the value of the contour plot? or do you
want the position of the plot (in the window)? The answer to these questions (and other related
ones), will dictate how you set the wait variable and the units you use (though you can change the
units using convert_coords afterward, should you need all the units for some reason).
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>> Good luck,
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>> Russell
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> openr, lun, 'arial.txt',/get_lun
>
>
>
> data=dindgen(824,914)
>
> readf, lun, data
>
> close,lun
>
>
>
>
>
> rotatedata=ROTATE(data,2)
>
>
>
> window, 1, retain=2
>
>
>
> While (!mouse.button Ne 4) DO BEGIN
>
> cursor, data, /device
>
>
>
> contour, rotatedata
>
> ENDWHILE
>
>
>
> end
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> The error I receive is: CURSOR: Incorrect number of arguments.
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> I am not sure what to do with this.
