
Subject: Re: ENVI: procedure to get X, Y of pixel in displayed image
Posted by [David Fanning](#) on Wed, 27 Dec 2006 14:53:46 GMT
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aberte@gmail.com writes:

> i'm getting troubled with writing a procedure to get x,y (so: y = the
> line of the image (row) and x = the sample (column)) coordinates of a
> pixel of a displayed image. I'm trying to do this with cursor, but
> while debugging I don't have the results I want.
>
> I'm using
>
> cursor, x, y, 4, /DATA
>
> I saw that with
> cursor, x, y, 4, /DEVICE
> I get integers instead of floats.
>
> I would to like what I'm doing wrong.

Probably several things. :-)

First of all, you shouldn't be using the CURSOR command in a widget window. You will probably get **slightly** wrong values, even if you do everything else right. You should trap button events from the draw widget in an event handler.

But even if this CURSOR command worked like you expected it to, the chances of this doing the right thing are small, since it would **only** work if there was a one-to-one correspondence between the size of the window and the physical size of the image. I think we can assume in a program like ENVI this will seldom be the case.

To make this work, you pretty much have to have a way to translate from the window coordinate system to the image coordinate system. I don't know ENVI, so I am not sure how this is done there. But I should think this is such a fundamental property of the way ENVI **must** handle images that your efforts would be more handsomely rewarded by searching the ENVI documentation than by trying to write an IDL program to do it.

Cheers,

David

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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.")
