
Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Mon, 02 Feb 2004 15:18:25 GMT
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Nuno Oliveira writes:

> Can someone tell me why cw_defroi returns the coordinates of the components
> of the roi together.? When I start to use the roi related objects they don't
> understand this variable. When I call any of these objects I need to pass
> the coordinates SEPARATE. If I use cw_defroi I have to separate the
> coordinates returned by cw_defroi before use the objects? This makes any
> sense?

I don't think you have been working with IDL long enough. :-)

Here's my favorite all-time quote on the IDL newsgroup:

"It looks like IDL is something that has been
patched together over a period of 20 years
by a 100 different programmers!"

Indeed.

Cheers,

David

P.S. Let's just say I would be happy if the programs I
wrote two months ago still worked with the programs I'm
writing today. :-)

--

David W. Fanning, Ph.D.
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Subject: Re: Still getting trouble with ROI's
Posted by [Nuno Oliveira](#) on Mon, 02 Feb 2004 15:30:51 GMT
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That's really encouraging!

Well, I'm thinking to go on an great adventure, ;) Getting cw_Defroi saving

it as my_cw_defroi and see if I can make it to return a two-dimensional array with the coordinates.

If I don't come back in, say, an hour or two, call an ambulance! ;)

Cheers,

Nuno.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1a8818303cc63e479897c9@news.frii.com...

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>

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Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Mon, 02 Feb 2004 15:42:19 GMT
[View Forum Message](#) <> [Reply to Message](#)

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>
> If I don't come back in, say, an hour or two, call an ambulance! ;)

Oh, oh. Have you seen that code, with its own event loop!?
I hope they have a defibrillator. :-(

Cheers,

David

--

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Subject: Re: Still getting trouble with ROI's
Posted by [Nuno Oliveira](#) on Mon, 02 Feb 2004 16:01:17 GMT
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I was looking into that now, :-(.

I don't understand the code sequence. What is that "own event loop"?

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1a881dc54d57a0ca9897ca@news.frii.com...

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Subject: Re: Still getting trouble with ROI's

Posted by [David Fanning](#) on Mon, 02 Feb 2004 16:16:50 GMT

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Nuno Oliveira writes:

> I was looking into that now, :(.

>

> I don't understand the code sequence. What is that "own event loop"?

Actually, this doesn't look too hard to me.

Just define a couple of keywords to get back

what you want, then in the "all done" portion

of the code (near the bottom), fill up your keywords

before you return the "xy" variable. You will probably

have to do some checking for the various things "xy"

can be, but basically you just want to decompose

that variable, I think.

"Own event loop" means the program is not using XManager to check for events. This program is what you might call a "hypermodal" widget. You ain't doin' nothin' until this program is finished!

Cheers,

David

--

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Subject: Re: Still getting trouble with ROI's

Posted by [Nuno Oliveira](#) on Mon, 02 Feb 2004 16:40:14 GMT

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My purpose is not to decompose. I could decompose outside cw_defroi (and then my problem is I can not distinguish between (127,2) from (12,72) when I have xy=1272). I was looking for the place where cw_defroi 'composes' xy and, avoiding composition, making it two separate variables or one variable with two dimensions.

"David Fanning" <david@dfanning.com> wrote in message news:MPG.1a8825d1b36013cf9897cb@news.frii.com...

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Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Mon, 02 Feb 2004 17:18:59 GMT
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Nuno Oliveira writes:

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> then my problem is I can not distinguish between (127,2) from (12,72) when I
> have xy=1272). I was looking for the place where cw_defroi 'composes' xy
> and, avoiding composition, making it two separate variables or one variable
> with two dimensions.

Sigh... Right. Maybe you should be writing your own ROI routine.
I'm pretty sure it could have been done by now. :-)

Cheers,

David

P.S. Let's just say I have the funny suspicion that this
tool might be a wrench and that what you are looking for
is a hammer. :-)

--

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Subject: Re: Still getting trouble with ROI's
Posted by [Nuno Oliveira](#) on Mon, 02 Feb 2004 17:33:42 GMT
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Indeed, I'm going to start thinking my ROI tool. But still I've think very
well what I really need.

My deception comes from the fact that cw_defroi is not compatible with roi objects. That's what is REALLY annoying me.

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.1a88346d80b866c89897cc@news.frii.com...

> Nuno Oliveira writes:
> Sigh... Right. Maybe you should be writing your own ROI routine.
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Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Mon, 02 Feb 2004 17:47:06 GMT
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Nuno Oliveira writes:

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> well what I really need.
>
> My deception comes from the fact that cw_defroi is not compatible with roi
> objects. That's what is REALLY annoying me.

Ah, well, two different eras. I feel the same way when
I'm flirting with those young waitresses down at the cafe. :-)

The time I've spent on this already this morning, combined
with the fact that I'm trying hard to get some real work done,
has nearly pushed this program over my personal threshold of
"Oh, hell, I'll just write the damn thing!" That, and I just

realized I could use something very much like it for the next stage of the program I am (suppose to be) working on.

I presume you are trying to draw a polygon, right? And you want the coordinates of the polygon, *not* the indices of the points inside the polygon. Is that right? The requirement for my program is that the ROI points be drawn in a freehand way. Does that bother you?

Give me a day or two. Perhaps late tonight, although--of course--that will mean a LOT more testing on your part. :-)

Cheers,

David

--

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Subject: Re: Still getting trouble with ROI's

Posted by [Bruce Bowler](#) on Mon, 02 Feb 2004 17:47:38 GMT

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On Mon, 02 Feb 2004 16:40:14 +0000, Nuno Oliveira put fingers to keyboard and said:

> My purpose is not to decompose. I could decompose outside cw_defroi (and
> then my problem is I can not distinguish between (127,2) from (12,72) when I
> have xy=1272). I was looking for the place where cw_defroi 'composes' xy
> and, avoiding composition, making it two separate variables or one variable
> with two dimensions.

Based on the fact that xy is the result of a "where", I'd assume that the single number returned is the "1 dimensional index that would result if the 2 dimensional array were addressed at X,Y".

If I weren't so tired from partying after the Pat's won last night I'd tell you how to turn that back into 2 dimensions, but my brain is toast right now. I'm sure either a Panthers fan, someone on the left coast or someone who doesn't care about the Pat's or the Panthers can help...

--

+-----+-----+
Bruce Bowler | To be great is to be misunderstood. - Ralph Waldo

Subject: Re: Still getting trouble with ROI's

Posted by [David Fanning](#) on Mon, 02 Feb 2004 17:59:55 GMT

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Bruce Bowler writes:

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> single number returned is the "1 dimensional index that would result if
> the 2 dimensional array were addressed at X,Y".

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I'm a big Janet Jackson fan (or at least NOW I am!),
but I'm pretty sure this won't work. The problem is
that the WHERE function (or, actually, POLYFILLV in
this case) doesn't return *ordered* indices. So you
can't really use the indices to "draw" anything.

But even if you could, I think Nuno needs the outline,
not the indices inside the outline. He's just using
the wrong tool for the job, I think.

Cheers,

David

--

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Subject: Re: Still getting trouble with ROI's

Posted by [Nuno Oliveira](#) on Tue, 03 Feb 2004 11:02:40 GMT

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At this stage I'm trying to build an application that draw and manages ROI's,
with some requirements but still trying to make it simple. My priorities

make that I'm trying to maximize the use of idl functions. And then when finished, if I still have time for development then I make some functions of my own. That was the reason why was making use of cw_defroi

(and I'm still trying)

Besides drawing, it should allow the user, to move and eventually resize, and to save and load. I was thinking of making it through x and y indices. I can "see" if the user presses the arrows and then affecting the indices. For resizing, checking if the user clicks the border and then .

I haven't think in the solution for all options. But for now it is clear that if I want to manipulate the roi I need to get the indices in the (x,y) form.

"David Fanning" <david@dfanning.com> wrote in message news:MPG.1a883b05b7f372e19897cd@news.frii.com...

>
> I presume you are trying to draw a polygon, right? And you
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Subject: Re: Still getting trouble with ROI's
Posted by [Nuno Oliveira](#) on Tue, 03 Feb 2004 11:17:25 GMT
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Thanks, Bruce. I was looking in the tutorials and it was not clear the

working procedure of the where function (it is now?). It works on a mask right? So if have result = where(xy) it would mean that xy is a matrix (in the case 2-D) where de elements of the roi have value 1 and the others have value 0.

So maybe the solution is seeking for i,j such that xy(i,j) eq 1. If true then adding these (i,j) to a pointer and returning this two-dimensional array? What do you say? I'm going to try.

Cheers,

Nuno.

"Bruce Bowler" <bbowler@bigelow.org> wrote in message
news:pan.2004.02.02.17.47.37.709701@bigelow.org...

> On Mon, 02 Feb 2004 16:40:14 +0000, Nuno Oliveira put fingers to keyboard
> and said:

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>

> --

> +-----+-----+
> Bruce Bowler | To be great is to be misunderstood. - Ralph Waldo
> 1.207.633.9600 | Emerson
> bbowler@bigelow.org |

> +-----+-----+
>

Subject: Re: Still getting trouble with ROI's
Posted by [Nuno Oliveira](#) on Tue, 03 Feb 2004 11:25:19 GMT
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Sorry if sometimes my purpose is not very clear. I try to put little problems in here that you sometimes can help with your tips. I'm expecting these tips to help on programming my tools and not to solve all my problems. I guess if I don't think hard on my problems I'll never learn.

Cheers,

Nuno.

P.S. I guess that you were not one of the thousands that called to the SuperBowl organization claiming against Janet's arguments.

"David Fanning" <david@dfanning.com> wrote in message news:MPG.1a883e07f0fedaf39897ce@news.frii.com...

> Bruce Bowler writes:

>

> I'm a big Janet Jackson fan (or at least NOW I am!),
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> But even if you could, I think Nuno needs the outline,
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Subject: Re: Still getting trouble with ROI's
Posted by [btt](#) on Tue, 03 Feb 2004 13:54:48 GMT

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David Fanning wrote:

> Bruce Bowler writes:

>

>

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>> single number returned is the "1 dimensional index that would result if
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> But even if you could, I think Nuno needs the outline,
> not the indices inside the outline. He's just using
> the wrong tool for the job, I think.
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Hi David,

Not to beat a dead horse (I agree that Nunio is pushing a rope uphill),
but...

Even if POLYFILLV returns the subscript indices out of order, then he
could still work with them using the built-in ARRAY_INDICES and your
FIND_BOUNDARY routines to get the outline.

Am I missing something?

Ben

Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Tue, 03 Feb 2004 13:56:37 GMT
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Nuno Oliveira writes:

> P.S. I guess that you were not one of the thousands that called to the
> SuperBowl organization claiming against Janet's arguments.

I have no objection to Janet's "arguments". I was more offended
by the guy who kept grabbing his crouch every 5 seconds. Don't
we have any jock ointment around here!?

The alternative, of course, was to switch the channel and
watch the ladies play 7 on 7 tackle football while
dressed in lingerie.

I think it's just the latest sign (as if we needed another
with the Bushies and all) that the world is coming to

an end. :-(

Cheers,

David

P.S. Let's just say my yearly foray into television land only confirmed that our decision to unplug the TV 15 years ago was about the smartest decision I ever made!

--

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Subject: Re: Still getting trouble with ROI's
Posted by [David Fanning](#) on Tue, 03 Feb 2004 14:33:41 GMT
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Ben Tupper writes:

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- > but...
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- > Even if POLYFILLV returns the subscript indices out of order, then he
- > could still work with them using the built-in ARRAY_INDICES and your
- > FIND_BOUNDARY routines to get the outline.
- >
- > Am I missing something?

Well, I don't think ARRAY_INDICES is going to help much (when did RSI sneak *that* program into IDL!), but FIND_BOUNDARY is what he wants, for sure. It's just that it is such an inelegant extra step. He has already collected the points he wants, the points that were used in POLYFILLV to get the indices that were returned. He just needs to intercept the program at the appropriate place.

My only point is that it is simpler, less time consuming, *and* you learn more about what you are doing if you just build the functionality for yourself than if you try to push the square peg of CW_DEFOI into this round hole. :-)

Cheers,

David

--

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