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Subject: Re: IDL routine to fill in gaps in line? / Searching IDL routine libraries?

Posted by [pgrigis](#) on Tue, 18 Jan 2011 18:37:59 GMT

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On Jan 18, 11:24 am, Robin Wilson <ro...@rtwilson.com> wrote:

> Hi all,

>

> I've recently realised what a wealth of useful code is in the various  
> IDL routine libraries available on the internet. However, what I haven't  
> found is a very good way of searching them. For example, I would never  
> have learnt about the very useful COLLAPSE routine by Marc Buie if he  
> hadn't posted about it as a response to one of my questions here.

>

> So, my question is two-fold:

>

> 1. Does anyone know of a routine in any of the IDL user-written  
> libraries that fills in gaps in a line on a binary image to make it a  
> full and complete line. For example, take in the following input (where  
> \* is a nonzero element and . is a zero element):

>

> .. \* ...

> .....  
> .. \* ...

> .....  
> .....\*

> .....\*

> .....\*

> .....\*

>

> And fill in the gaps to make a complete line like:

>

> .. \* ...

> .. \* ...

> .. \* \* \* ..

> .....\*

> .....\*

> .....\*

This is an ill-posed problem, as there is more than one way in which you can connect the points. You should first think on a more detailed prescription on how you want this to happen. For instance, this would also be a possible solution:

.. \* ...

.. \* ...

.. \* ...

.. \* \* \* ..

.....\*

.....\*

Ciao,  
Paolo

>  
> 2. I have a suspicion that the code I need to do the above is out there  
> somewhere. Does anyone have any particularly useful tips for searching  
> all of the IDL libraries on the internet to find routines you need?  
>  
> Cheers,  
>  
> Robin  
>  
> -----  
> PhD Student  
> University of Southampton, UK

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