Subject: LABEL_REGION
Posted by Hermann Mannstein on Tue, 09 Jan 1996 08:00:00 GMT

View Forum Message <> Reply to Message

Hello,

LABEL_REGION (IDL 4.01) has a nasty behaviour :

IDL> d=361
IDL> a=(indgen(d,d) mod 2)^2
IDL> b=a*rotate(a,1) ; produce a dot-pattern
IDL> a=label_region(b)
Bus error(coredump)

if the number of regions exceeds 2^15(or something like this),
it ends the IDL-session ungracefully. With d=363 I got a
-- Memory fault(coredump) (on a SGI), with d=361 a
Segmentation fault(coredump). Is there a version around,
which allows for more regions - i. e. switches to long integer if
necessary? or at least catches the error?

Thanks in advance

Regards,

```
 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~~~~~~~~~~~~~~~~~~~~
 Hermann Mannstein        Tel.: +49 8153 28-2503
 Institut fuer Physik der Atmosphaere    or -2558
 DLR - Oberpfaffenhofen        Fax.: +49 8153 28-1841
 Postfach 1116        \       mailto:H.Mannstein@dlr.de
 D-82230 Wessling        \ 0   http://www.op.dlr.de/~pa64
 Germany        _____V|_____
 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~`--------\--------'~ ~~~~~~~~~~~~~~~~~~~~
                        \
```

Subject: Re: Label_Region
Posted by btt on Wed, 27 Dec 2000 21:36:14 GMT

View Forum Message <> Reply to Message

Well... I don't mind being a fool, I just dislike making such a public
display of it.

After dutifully wrestling with all kinds of beautiful, thoughtful and
insightful uses of SEARCH2d and other goodies... none of which worked...
my associate-non-programmer-biologist-lunchpal suggested padding the
image with a 1-pixel border. Of course it works like a charm.

Sasafrasabagarashta...

Ben

Ben Tupper wrote:
>
> Hello,
>
> When the label region is used to uniquely mark blobs within an image,
> the edge pixels are all assumed to be zero. I would like to preserve
> those edge pixels AND perform the region labeling.
>
> I can imagine some brute-force-and-ignorance schemes to perform the blob
> coloring on my own,
> but I would like to be smart about it. Any suggestions?
>
> Thanks,
>
> Ben
> --
> Ben Tupper
> Bigelow Laboratory for Ocean Sciences
> 180 McKown Point Rd.
> W. Boothbay Harbor, ME 04575
> btupper@bigelow.org

--
Ben Tupper
Bigelow Laboratory for Ocean Sciences
180 McKown Point Rd.
W. Boothbay Harbor, ME 04575
btupper@bigelow.org

Subject: Re: Label_Region
Posted by btt on Fri, 29 Dec 2000 19:00:12 GMT
View Forum Message <> Reply to Message

Ben Tupper wrote:
>

> my associate-non-programmer-biologist-lunchpal suggested padding the
> image with a 1-pixel border. Of course it works like a charm.
>

He gets the prize for thinking outside the box, so to speak.

FYI, the documentation for LABEL_REGION(data) states that data can be an N-dimensional array (at least in IDL5.4 where the EIGHT keyword has been succeeded by the ALL_NEIGHBORS keyword.) However, while building a wrapper around the function, I discovered that N cannot be 1.

Ben

--
Ben Tupper
Bigelow Laboratory for Ocean Sciences
180 McKown Point Rd.
W. Boothbay Harbor, ME 04575
btupper@bigelow.org

Subject: Re: Label_Region
Posted by Pavel A. Romashkin on Fri, 29 Dec 2000 20:05:20 GMT
View Forum Message <> Reply to Message

Nice thread, Ben :-)
This is sort of newsgroup posting I,ve been doing lately.
Cheers,
Pavel

Ben Tupper wrote:
>
> Hello,
>
> When the label region is used to uniquely mark blobs within an image,
> the edge pixels are all assumed to be zero. I would like to preserve
> those edge pixels AND perform the region labeling.
>
> I can imagine some brute-force-and-ignorance schemes to perform the blob
> coloring on my own,
> but I would like to be smart about it. Any suggestions?
>
> Thanks,
>
> Ben>