Subject: Re: label_region/histogram help
Posted by David Fanning on Tue, 03 Nov 2009 22:54:31 GMT
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Dave wrote:

> I need some help on an image I'm working on.
>
> I've got many regions that I've distinguished via LABEL_REGION and
> looked at the population of the regions using HISTOGRAM. Most of
> these regions have a population of less than 5 or so. For these
> regions I have made the population zero by:
>
> im_pop = where(areas lt 5, numbers)
> if numbers lt 5 then area[im_pop]=0
>
> After I've got the populations of my regions where I want, for the
> most part, I need to get all the regions, including the 0 population
> regions, back into pixel space for display. I cannot for the life of
> me figure this out.

Presumably you have your original image, let's call it image.
I assume it is Long Integers.

You have your Label_Region result, call it labelRegion.

So,to restore the regions from your orginal images, you would
do something like this:

```
s = Size(image, /Dimensions)
displayImage = LonArr(s[0]. s[1])
FOR j=1,Max(labelRegion)-1 DO BEGIN
   thisRegion = Where(labelRegion EQ j, count)
   IF count EQ 0 THEN Continue
   displayImage[thisRegion] = image[thisRegion]
ENDFOR
TVImage, BytScl(displayImage)
```

This could be faster using the reverse indices to the Histogram
command, but *much* harder to explain. :-)

Cheers,

David