
Subject: Re: Search and Replace in 2D Array (Image)
Posted by [vikramivatury](#) on Thu, 28 May 2009 19:39:43 GMT
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On May 28, 3:28 pm, David Fanning <n...@dfanning.com> wrote:
> vikramivat...@gmail.com writes:
>> I have an image "m" which is [1229 x 1229] pixels that contains 1's
>> and 0's. I also have an image "img" which is [1229 x 1229] that
>> contains pixel IDs. For every 1 in image "m" it corresponds to a
>> certain pixel ID in image "img". I am trying to write a loop in IDL
>> that scans through the pixels of image "m" and when its get to a 1,
>> spit out its information from "img". I used the 'where' function (w =
>> where m gt 1.....ids = img(w)) and that worked fine in outputting
>> a 1D array of 1510441 pixels, but I am trying to do it for a 2D array
>> using loops.
>
>> img = read_tiff('NP.tif')
>> ids = fltarr(1229,1229)
>
>> for i = 0,1228 do begin
>> for j = 0,1228 do begin
>> if (m(i,j) eq 1.) then begin
>> ids(i,j) = img(m(i,j))
>> endif
>> endfor
>> endfor
>
>> Any suggestions would be great.
>
> Well, don't do it like this. :-)
>
> I suggest you investigate LABEL_REGION. *Much* faster!
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Coyote's Guide to IDL Programming (www.dfanning.com)
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Ok, I will take a look at Label_Regions.

I was just thinking....Is it possible to do something like this
without an if-statement:

```
img = read_tiff('NP.tif')
```

```
ids = fltarr(1229,1229)
w = fltarr(1229,1229)

for i = 0,1228 do begin
    for j = 0,1228 do begin
        w(i,j) = where m eq 1
        ids(i,j) = img(w(i,j))

    endfor
endfor
```
