Subject: the position of the pixel in 3 dimensional array Posted by Hassan on Tue, 29 Dec 2009 18:00:28 GMT

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Hi,

```
I used the folloing command to get a one-dimensional array:
pos_g0=where(image gt 0)
now, I have a pixel that know the value in three positions of
[388,168,13],[388,168,33,[388,168,48]] ([column,row,band]) and want to
work out the location of pixel in the pos_g0 which is in 3 locations.
I used the following commands but the results isn't correct.
;make a vector which keeps the position of the desired pixel in pos_g0
array in 3 locations
pixel_pos=[0,0,0]
for i=0l,n_elements(pos_g0)-1 do begin&
ai=array indices(ref1,pos q0[i])&
if (ai[0] eq 388 and ai[1] eq 168 and ai[2] eq 13) then begin &
pixel pos[0]=i&
endif&
else begin&
if (ai[0] eq 388 and ai[1] eq 168 and ai[2] eq 33) then &
 pixel_pos[1]=i&
 if (ai[0] eq 388 and ai[1] eq 168 and ai[2] eq 48) then &
   pixel_pos[2]=i&
 endelse&
  endfor
```

Subject: Re: the position of the pixel in 3 dimensional array Posted by rogass on Sun, 03 Jan 2010 20:20:17 GMT

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On 29 Dez. 2009, 19:00, Hassan <a href="mailto:-hkhav...@gmail.com">hkhav...@gmail.com</a> wrote: > Hi, > I used the folloing command to get a one-dimensional array: > pos_g0=where(image gt 0)
```

Now you have a index list of all pixels greater than zero.

- > now, I have a pixel that know the value in three positions of
- > [388,168,13],[388,168,33,[388,168,48]] ([column,row,band]) and want to
- > work out the location of pixel in the pos_g0 which is in 3 locations.

I don't understand this part. Do you mean that you want to check

whether the pixels stored in you pos_g0 list match the three points or what? If this is the case why not:

```
\label{eq:raginal_ragion} \begin{split} &\text{ra} = \text{make\_array}(\text{size}(\text{ref1,/dimensions}),/\text{index}) \\ &\text{list} = [\text{ra}[388,168,13],\text{ra}[388,168,33],\text{ra}[388,168,48]] \\ &\text{pos\_g0=where}(\text{image gt 0,cnt}) \\ &\text{llist} = \text{rebin}(\text{list,3,cnt}) \\ &\text{pixel\_pos=[where}(\text{pos\_g0-llist}[0,^*] \ \text{eq 0}),\text{where}(\text{pos\_g0-llist}[1,^*] \ \text{eq 0}),\text{where}(\text{pos\_g0-llist}[2,^*] \ \text{eq 0})] \end{split}
```

Hope it helps somehow, it wa not tested...

Regards

CR