

---

Subject: Re: how many array elements with a certain value in a row

Posted by [Chris W](#) on Thu, 01 Apr 2010 13:48:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Apr 1, 7:49 am, Jeremy Bailin <astroco...@gmail.com> wrote:

> Does anyone have a nice simple efficient solution to this problem (I  
> have a simple inefficient solution and a vague sketch in my mind of a  
> convoluted but probably efficient solution):  
>  
> I have an image in which many pixels are saturated (=65535, they're  
> short unsigned). I want to treat each set of consecutive saturated  
> pixels in a row as a single unit and know how many saturated pixels in  
> a row there are. So I would like to have a list that contains (a) the  
> rightmost pixel of each set of consecutive saturated pixels, and (b)  
> how many saturated pixels there were in the set.  
>  
> Any suggestions?  
>  
> -Jeremy.

create an array the same size as the image, with values equal to the x  
index ([0,1,2,3,4,5,...]):

```
x = indgen(512)
rx = rebin(x,512,512)
```

```
;;create a mask
mask = image eq 65535
```

```
;; index values of the mask
rxmask = rx*mask
```

```
rightvalues = max(rxmask, dimension=1)
```

```
number_in_rows = total(mask, 1)
```

---