
Subject: Re: set all elements in 2d array between some range to 1

Posted by [havok2063](#) on Wed, 03 Jun 2015 03:37:57 GMT

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Hi Jeremy,

Thanks a lot for your help. This is great. Exactly the solution I'm looking for. Hmm..my original loop is taking me ~30 seconds. Not sure why yours is much faster. Here is my code. Actually it seems it's because the `10.^loglam` is being done every loop iteration. Changing this to a stored variable, the loop takes 2.1 seconds.

```
starttime = systime(/seconds)
for j=0,nlines-1 do begin
    index=where((10.^loglam gt skylines[jj].skywave-skypad)and(10.^loglam lt
skylines[jj].skywave+skypad),nindex)
    f (nindex gt 0) then skylinemask[index]=1
endfor
print, (systime(/seconds)-starttime)
30.812672
```

I really like your code, since it's faster and no loops. However, when I run it, I'm getting some small differences between the output from the original vs the new method.

```
IDL> help, where(skylinemask)
<Expression>  LONG    = Array[226935]
```

```
IDL> help, where(skylinemask_v2)
<Expression>  LONG    = Array[226933]
```

```
IDL> help, where(skylinemask ne skylinemask_v2)
<Expression>  LONG    = Array[14]
```

Printing these 14 elements for both the old and new mask shows that are flipped from each other. Could it be a boundary issue?

Cheers, Brian
