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

Posted by [havok2063](#) on Fri, 22 May 2015 21:14:43 GMT

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So I'm trying to set all elements of a 2d-array that are between some padding, based off elements in another vector, to 1. Creating a mask of 1's and 0's.

I want to turn this bit of code, which runs in 30 seconds, into a non-loop bit of code that runs faster.

wave = 2d array of floats - size [4112,709]

skywave = 1d array of floats - size [739]

```
nx = 4112
```

```
ny = 709
```

```
nlines = 739
```

```
skylinemask = intarr(nx,ny) ; output 2d array of 1's and 0's
```

```
for j = 0, nlines-1 do begin
```

```
  index = where( (wave gt skywave[j]-3) and (wave lt skywave[j]+3), nindex)
```

```
  if (nindex gt 0) then skylinemask[index] = 1
```

```
endfor
```

I've started tackling this with value\_locate but I got stuck.

```
waved = wave[*]
```

```
uniwave = sort(waved)
```

```
minskywave = skywave - 3
```

```
maxskywave = skywave + 3
```

```
v1 = value_locate(minskywave, waved[uniwave])
```

```
v2 = value_locate(maxskywave, waved[uniwave])
```

Any ideas on how to finish this? Or a simpler way than what I'm attempting. Thanks.

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