
Subject: Re: find bimodal maximum in each row

Posted by [Jeremy Bailin](#) on Sun, 06 Feb 2011 20:27:45 GMT

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That's easily constructed from peakp:

```
q = [[0,1,2,1,2,1,0], [1,2,0,0,2,2,0], [0,2,2,2,0,1,0]]
```

```
nx = (size(q, /dimen))[0]
```

```
ny = (size(q, /dimen))[1]
```

```
; is this a local maximum? (note that the index starts at element 1,* of q)
```

```
peakp = (q[1:nx-2,*] gt q[2:nx-1,*]) and (q[0:nx-3,*] le q[1:nx-2,*])
```

```
; pad peakp to make it the same dimensions as q and multiply
```

```
peakonly = q * [replicate(0,1,ny), peakp, replicate(0,1,ny)]
```

```
IDL> print, peakonly
```

```
0  0  2  0  2  0  0
0  2  0  0  0  2  0
0  0  0  2  0  1  0
```

-Jeremy.
