
Subject: Maximum value array resampling

Posted by [davis anderton](#) on Fri, 05 Aug 2005 17:55:46 GMT

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I'm trying to figure out an IDL-efficient way to resample a series of images. I know how to do this in a ruinously laborious fashion using loops but I know there's an easier way.

Consider the following 4x4 array:

```
x = [$  
[0,3,4,5],$  
[1,2,7,0],$  
[3,2,9,0],$  
[7,0,5,6]]
```

I want to resample this to y, a 2x2 array. Each element would contain the maximum value of the corresponding 4 pixels. y would then look like

```
[$  
[3,7],$  
[7,9]]
```

So element [0,0] in y is $\max(x[0:1,0:1])$ etc. As I understand it, rebin/congrid won't do this. Each image is about 5000x2000 and there are several hundred to process.

Thanks!
