
Subject: Re: Fast way to collapse data cube with median
Posted by [Michael Galloy](#) on Tue, 09 Jul 2013 16:28:13 GMT
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On 7/9/13 10:08 AM, Stefan wrote:

> Hey
>
> I am doing a lot of image processing and very often I have a data
> cube like with the x/y axes corresponding to image coordinates and
> the z component corresponding to the individual images.
>
> I simply want to calculate the median at each pixel stack and so far
> I always loop through all pixels and determine the median for each
> stack. This, of course, can be quite slow for large images since it
> involves two loops and I was wondering if someone here might have a
> fancy idea of how to collapse such a cube faster.
>
> thank a lot :)
>

Yes, use the DIMENSION keyword to median (dimensions start at 1):

```
IDL> arr = findgen(2, 3, 4)
IDL> m = median(arr, dimension=2)
IDL> help, m
M          FLOAT    = Array[2, 4]
```

Mike

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