
Subject: Re: Resample (neighborhood averaging) a 3D array with missing data
Posted by [lecacheux.alain](#) on Mon, 02 Dec 2013 10:44:03 GMT

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Le lundi 2 décembre 2013 11:39:19 UTC+1, alx a écrit :

> Le lundi 2 décembre 2013 11:35:47 UTC+1, alx a écrit :

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>> Le lundi 2 décembre 2013 02:51:50 UTC+1, zhang...@gmail.com a écrit :

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>>> Hello, everyone:

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>>> I want to resample a 128x20000x32 (sample,line, band) image with missing data into a 32x5000x32 image, using neighborhood averaging over 4x4 pixels.

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>>> The REBIN function cannot help, since it has no NaN keyword like MEAN; The "Average Arrays with Missing Data" tip in the "Examples To Illuminate the IDL Way" is for two arrays (http://www.idlcoyote.com/idl_way/smallexamples.html).

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>>> The total amount of images is hundreds of gigabytes. Is there any fast solution to this?
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>>> Thanks.
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>>> Clark
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>> resampled_array = mean(mean(reform(array,4,32,4,5000,32,/OVER),DIM=1,/NAN),DIM
=2,/NAN)
>
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```

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>> alx.
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> Maybe faster would be:
>
> resampled_array=mean(transpose(reform(array,4,32,4,5000,32,/ OVER),[0,2,1,3]),
DIM=1,/NAN)
>
>
>
> alx.
```

Sorry, I forgot a more REFORM !

```
resampled_array=mean(reform(transpose(reform(array,4,32,4,5000,32,/OVER),[0,2,1,3]),8,32,5000,32,/OVER),DIM=1,/NAN)
```
