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Subject: Re: Multi bands mean  
Posted by [David Fanning](#) on Fri, 08 Feb 2008 17:05:16 GMT  
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jujo@argentina.com writes:

> I have a multi-bands image. I need to calculate the mean value of each  
> pixel, considering all the bands. It can be easily done using:  
>  
> mean\_image=total(multi\_bands\_image, 3) / number of bands  
>  
> However, I have some nan values, which have to be discarded before the  
> calculation. I can do that:  
>  
> mean\_image=total(multi\_bands\_image, 3, /nan) / number of bands  
>  
> However, if I do that, the nan values become zeros and the average  
> includes them. How can I do to calculate the mean without considering  
> nan values?

Seems to me you want this:

```
mean_image=total(multi_bands_image, 3, /nan) / total(finite(a),3)
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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