Subject: Re: divide by zero problems Posted by edward.s.meinel on Thu, 13 May 1999 07:00:00 GMT View Forum Message <> Reply to Message

C'mon guys, this is IDL not C...

Mark Rehbein <mrehbein@aims.gov.au> wrote:

- > Basically, my images have cloud pixels that I have changed to a zero
- > value.

OK so far...

- > I also have a mask of the image that has values 1 for good pixel
- > and 0 for bad pixels (cloud).

So you have new\_image = image\*mask

- > I then add all my images together to get
- > a "sum image" and add all my masks together to get a "sum mask".

Oh, then its

```
FOR i = 0, number_of_images-1 DO BEGIN
image_ sum = image_sum + image[*, *, i]*mask[*, *, i]
 mask_sum = mask_sum + mask[*, *, i]
END
```

- > Now to composite or average the images I do the following:
- > composite=sum image/ sum mask.

i.e., you want to normalize the result. The you should use something like:

composite = image\_sum/(mask\_sum + (mask\_sum EQ 0))

- > In fact I get whole image of
- > NaN's in my composite even though my sum image and sum mask have
- > decent values in them.

What is the TYPE of image? How many images? image\_sum should be declared at least one TYPE higher than image (if image is BYTE then image\_sum should be INTEGER; if image is INTEGER then image\_sum should be LONG; etc.). If there are more than 256 images then mask\_sum should be declared INTEGER.

## Ed Meinel

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