Subject: Re: Calculate the mean of many images
Posted by Chris[6] on Sun, 16 Nov 2008 19:08:39 GMT
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> What does finite(img) EQ 1 mean here? Can I write this statement as
> the following?

finitie(img) eq 1 will evaluate to the same thing as finite(img) - the
finite function returns a 1 or a zero depending on whether the input
is finite.

> mask = (qa EQ 1.000 and qa EQ 0.000) AND (finite(img) EQ 1.000 &&
> 0.000)

this statement is mutually exclusive (qa can't equal 1 and zero at the
same time). The finite part is equally problematic. I'm not sure what
you want mask to be. But anyways, once you know how to properly phrase
the logical test for your mask, I would do the following:

```
;- calculate the average
mask = .... logical test on QA which is TRUE for a pixel which you
want to consider ...
average_image = total(im * mask, 3) / total(mask, 3)

;- check for and pixels where there were no good images
bad = where(total(mask,3) eq 0, ct)
if ct eq 0 then average_image[bad] = !values.f_nan
```

maybe a good mask would look like
mask = finite(qa) if anything finite is good or,
if you want to pull out specific qa values,
mask = ((qa eq 1) or (qa eq 2))

chris