Subject: Re: Creating a composite image, avoid fill data values Posted by Craig Markwardt on Tue, 17 Feb 2009 00:08:26 GMT View Forum Message <> Reply to Message

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- > Hi I need to create a composite image showing the mean of all images
- > while avoiding the fill value of 0. I have 5 images that are 600 by

On Feb 13, 11:30 am, Matt <mmsmith1...@gmail.com> wrote:

- > 800. In these images there are fill values interspersed among valid
- > values (3-255). I'd like to create a new image showing the mean pixel
- > values across all images, but I need to ignore pixels with value of 0
- > from the calculations. Any suggestions on how to get this done?
- > Thanks.

The stacking method is OK, but in this case a loop with five iterations will not hurt. Assuming your image is stored in the array IMAGE(600,800,5),

```
TOT = fltarr(600,800) ;; Cumulative total image
NSAMP = TOT ;; Number of valid samples per pixel
for i = 0, 4 do begin
   nsamp = nsamp + (IMAGE NE 0) ;; Accumulate number of valid pixels
   tot = tot + IMAGE ;; Accumulate total
end
mean = (TOT/NSAMP)
```

Of course you will want to check NSAMP to avoid dividing by zero.