Subject: Re: Removing and Replacing Nan values in IDL
Posted by adhdunn on Thu, 19 Jul 2012 14:15:04 GMT

On Thursday, July 19, 2012 9:54:29 AM UTC-4, nata wrote:
> I think that the following code will work :
>
> mask1=WHERE(FINITE(image1) EQ 0,nn1)
> IF nn1 GT 0 THEN BEGIN
>   mask2=WHERE(FINITE(image2[mask1]) EQ 1,nn2)
>   IF nn2 GT 0 THEN image1[mask1[mask2]]=image2[mask1[mask2]]
> ENDIF
>
> Bernat

Hello Bernat,

Thank you for your reply. Right now I have the following lines of code:

create an image1-sized matrix of all NaNs (c)
; find where both image1 and image2 have valid values
; replace corresponding indices in c with the larger of image1 or image2
; all other values remain as NaNs

C = REPLICATE(!VALUES.F_NAN, N_ELEMENTS(image1))

good = WHERE(FINITE(image1) and FINITE(image2), ngood)
IF (ngood GT 0) THEN C[good] = (image1[good] + image2[good])/2

filter[i/2] = c

I believe that I need some of this to create my average between the two files. Will the statement you sent fit in here somewhere, or do I need to remove this and replace it completely? Overall I need to create an average between image1 and image2. If the value in image1 is NaN but not in image2 I want to replace image1 with image2, and vice versa, and then not take an average just leave that value as is. Of course an average of those would just yield the same value so I suppose that does not matter.