
Subject: merging bands

Posted by [beardown911](#) on Fri, 17 Jun 2011 14:33:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear all,

I'd like to merge three individual band into one single image file.
Thing is that there are hundreds of single band files and how to find
and identify to make three band composite.

Each band is 16-bit unsigned tif format image file with 1392x1040
array size.

Folder contains hundreds of files.

File name has sequence id in number and band id.

Here is an example of a file name; 4_10_R.tif.

First two number is a sequence ID and R stands for spectral band.

So, green band has G and NIR band has N letter in the file name.

But the sequence id is not in order. Sometimes it skips.

How to pick three matching individual band and composite to a single
three band stacked image?

Any tip would be appreciated.

Thank you,
Kim

Subject: Re: merging bands

Posted by [Konstantinos](#) on Sat, 18 Jun 2011 12:08:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

If i understand well what you want i ll try t assist you

PRO merge_files_forum

CD, 'c:\.....' ;full path of the directory you have your files

list_of_files_R=FILE_SEARCH('*R.tif')

list_of_files_G=FILE_SEARCH('*G.tif')

list_of_files_B=FILE_SEARCH('*B.tif')

number_of_files=N_ELEMENTS(list_of_files_R)

image=MAKE_ARRAY(3, 1932, 1040)

FOR i=0, number_of_files-1 DO BEGIN

image_R=READ_TIFF(list_of_files_R[i])

image_G=READ_TIFF(list_of_files_G[i])

image_B=READ_TIFF(list_of_files_B[i])

```

image[0,*]=image_R[*,*]
image[1,*]=image_G[*,*]
image[2,*]=image_B[*,*]
;YOU CAN GIVE ANY FILENAME YOU WANT JUST GIVING YOU THIS FOR

```

EXAMPLE

```

filename=STRING(i)+'.tiff'
WRITE_TIFF, filename, image
ENDFOR
END

```

I think that this piece of code should work for you.

I know that this code IS NOT WRITTEN THE BEST WAY, and it is also very BAD AND PRIMITIVE IDL WRITING

kostas

Subject: Re: merging bands

Posted by [beardown911](#) on Mon, 20 Jun 2011 14:52:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Jun 18, 7:08 am, Konstantinos <moonlightsha...@hotmail.gr> wrote:

```

> If i understand well what you want i ll try t assist you
>
> PRO merge_files_forum
>   CD, 'c:\.....' ;full path of the directory you have your files
>   list_of_files_R=FILE_SEARCH('*R.tiff')
>   list_of_files_G=FILE_SEARCH('*G.tiff')
>   list_of_files_B=FILE_SEARCH('*B.tiff')
>   number_of_files=N_ELEMENTS(list_of_files_R)
>   image=MAKE_ARRAY(3, 1932, 1040)
>
>   FOR i=0, number_of_files-1 DO BEGIN
>     image_R=READ_TIFF(list_of_files_R[i])
>     image_G=READ_TIFF(list_of_files_G[i])
>     image_B=READ_TIFF(list_of_files_B[i])
>     image[0,*]=image_R[*,*]
>     image[1,*]=image_G[*,*]
>     image[2,*]=image_B[*,*]
>     ;YOU CAN GIVE ANY FILENAME YOU WANT JUST GIVING YOU THIS FOR
> EXAMPLE
>     filename=STRING(i)+'.tiff'
>     WRITE_TIFF, filename, image
>   ENDFOR
> END
>
> I think that this piece of code should work for you.
> I know that this code IS NOT WRITTEN THE BEST WAY, and it is also very

```

> BAD AND PRIMITIVE IDL WRITING
>
> kostas

Hi Kostas,

Thank you so much for your code.
It worked. I just modified the writing tiff part using file "basename"
function.

Thanks again and have a nice day,
Kim

Subject: Re: merging bands
Posted by [Konstantinos](#) on Mon, 20 Jun 2011 23:48:45 GMT
[View Forum Message](#) <> [Reply to Message](#)

Kim,

Glad to be able to help you.

Any time, That's why this forum is for.

Kostas
