
Subject: Re: Putting bands together

Posted by [David Fanning](#) on Wed, 23 Feb 2005 21:28:37 GMT

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Julio writes:

- > I have a lot of image files and each file has only one band. I want to
- > join 'n' images in just only one file (with 'n' bands).
- > How can I do that?

I think I would read them in one by one, concatenate them together, and write them back out. Is there any particular part of that sequence you are having trouble with?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: Putting bands together

Posted by [enod](#) on Thu, 24 Feb 2005 02:49:21 GMT

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The method depends on the size of those images. For large images, it is impossible to read the whole image into memory, which makes it more difficult to do especially when the resulting image is not in BSQ format. In this case, I think using ASSOC can be a good choice. To get a BSQ multi-band image, you can just read and write images one-by-one. If single image is too large to read as a whole, then you should read a small part (say, one line) of the image repeatedly.

Tian

Julio wrote:

- > Hello folks...
- >
- > I have a lot of image files and each file has only one band. I want to
- > join 'n' images in just only one file (with 'n' bands).
- > How can I do that?
- >
- > Any comments wellcome.
- >

> Thanks and best regards,
> Julio

Subject: Re: Putting bands together
Posted by [julio](#) on Thu, 24 Feb 2005 10:55:44 GMT
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Hello there,

The images are small... The problem is I don't know the number of images to put together. The final multiband image can contain any number of bands (2 up to 20)...

How can I read one by one and put them into an array?

Here goes what I'm tring:

```
; pick the files
ARQ = DIALOG_PICKFILE(/READ, Title=['Selezione Archivos de Entrada'],$
  FILTER = ['*.mvc'],path=dir,/MULTIPLE_FILES)
n = N_ELEMENTS(arq)
```

```
; open each file and put into temp array
for i=0,n-1 do begin
  OPENR, cab, arq[i],/GET_LUN
  temp = fltarr(nc,nl,nb)
  READU, cab, temp
endfor
```

Subject: Re: Putting bands together
Posted by [julio](#) on Thu, 24 Feb 2005 14:08:08 GMT
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Hello...

I finally got what I wanted. After openning 'i' images, I did:

```
OPENR, cab, image[i],/GET_LUN
temp = fltarr(nc,nl,nb)
READU, cab, temp
```

```
;n = number of images
if i eq 0 then begin
  comp=fltarr(nc,nl,n)
endif
```

```
comp[:,*,i] = temp
```

The comp image has 'i' bands. Thanks for the comments!
Julio
