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Subject: Re: Read \_tiff with Sub\_Rect Keyword  
Posted by [raval.chintan](#) on Mon, 25 Jul 2005 10:36:58 GMT  
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Hi Ben,

Thank You for your answer.

Over here you are right , for reading the image file which has small dimension, But my image dimension is 14000x14000 or more than that, and i want to display this image in the size of 500X500 window. Here is my code, try out with the image which has dimension more than 6000 X 6000.

```
pro read_geotiff
  file = dialog_pickfile(filter=['*.tif', '*.tiff'])
  if file eq "" then return
  print,systemtime(0)
  res = query_tiff(file,info,geotiff=geostruct)
  samples = info.dimensions[0]
  lines = info.dimensions[1]
  xper = 25
  yper = 25
  ximg = samples/xper
  yimg = lines/yper
  print,samples,lines,ximg,yimg
  image = bytarr(3,ximg,yimg)

  for i = 0, yimg*(yper-1), yimg do begin
    for j = 0, ximg*(xper-1), ximg do begin
      a = read_tiff(file,sub_rect=[j,i,ximg,yimg])
      sx = j/xper
      sy = i/yper
      image[0:2,sx:sx+ximg/xper,sy:sy+yimg/yper] = a[0:2,$
0:ximg-1:xper,0:yimg-1:yper]
    endfor
  endfor

  print,systemtime(0)
  window,0,xsize=ximg,ysize=yimg
  tv, image, /order, /true

end
```

If you know the other methode apart from this then please let me know. Over here one solution is to make our program to read tiff file, but i do not want to do this. Because if ENVI is using this read\_tiff function then there should be other method as I think ( Because envi is taking less time to display the big tiff image).

Regards

Chintan

Ben Tupper wrote:

> raval.chintan@gmail.com wrote:

>> Hi...

>>

>> I have a geo tiff file which containing the 14000 X 14000 Pixels

>> (Samples and Lines), I am reading it through the read\_tiff function.

>> Over here i want to show that image on to the 500 X 500 window Means

>> by buffer for image will contain dimension [3,500,500]. For that I am

>> reading with the help of read\_tiff function with the sub\_rect keyword.

>> Where i m reading the pixels based on the ratio of 14000/500, but it is

>> taking to much time. While the same thing in ENVI it is taking less

>> time to read the image and display it. So is there any other method for

>> read that image fast. for that i have to write my own code in IDL to

>> read the tiff file?

>>

>> Regards,

>> Chintan Raval

>>

> Hello,

>

> I don't think I understand what it is that you are trying to do, but I

> would assume that IDL and ENVI are accessing the image using the same

> procedure. Here is an example of how to use the SUB\_RECT keyword (which

> I use all the time on much smaller images with no problem.)

>

> file = FILE\_SEARCH(!DIR, 'image.tif')

> whole = READ\_TIFF(file[0])

> sub = READ\_TIFF(file[0], sub\_rect = [200, 200, 50, 100] )

> TV, whole

> TV, sub, 100, 0

>

> Is this example similar to how you are using the SUB\_RECT keyword?

>

> Ben