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Subject: open and save a set of image

Posted by [cecilia.devecchi](#) on Thu, 16 Nov 2006 15:06:21 GMT

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Hi!

We're newbie in IDL programming and we have this problem:

We have a set (72) images to open, analize and save the output.

Do you know if exists a routine to automatize this process or if anybody has already written this routine or similar?

Thanks in advance

Cecilia e Maria

Best regards

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Subject: Re: open and save a set of image

Posted by [btt](#) on Mon, 20 Nov 2006 14:12:42 GMT

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cecilia.devecchi@gmail.com wrote:

> Well, probably we're more newbie than others :).

>

> We agree with Paul, we have given few details. We know that we need of

> a FOR loop, but we have this problem: the name of image are

> 01--1-960305-0941-D-24258, 02--1-960409-0941-D-24759, etc...How do we

> open (simply open) all the image with this kind of name? For the remain

> of homework (analys etc), the script is already written.

> We need some advice about this "name problem" from programmers expert

> (like David that is a "IDL guru" ;)) or programmer that has already

> dealt this problem.

Hi,

Is the concern is that your files don't have extensions? If so, then rest easy if the images are standard format like TIFF, PNG, etc.

I created a TIFF and saved it without an extension. IDL (6.3) read it back in without a hitch.

```
IDL> image = read_image('/Users/ben/12--345-67')
```

```
IDL> help, image
```

```
IMAGE      BYTE      = Array[406, 408]
```

Does that help?

cheers,

Ben

---

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Subject: Re: open and save a set of image

Posted by [cecilia.devecchi](#) on Mon, 20 Nov 2006 14:23:01 GMT

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No, sorry....We open, read, extract our data. We have written the following 'loop for' to open these data:

```
file_array=file_search('filepath', '*.200*', count=num_file)
  for i=0, num_file-1 do begin
    filename=file_array(i)
    print, filename
    openr, lun, /get_lun, filename

;read
free_lun, lun
;Analyze....
....
....
endfor
```

But analyze only the first file.....where do we wrong?  
We hope to explain our problem....

Ben Tupper ha scritto:

```
> cecilia.devecchi@gmail.com wrote:
>> Well, probably we're more newbie than others :).
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>> We agree with Paul, we have given few details. We know that we need of
>> a FOR loop, but we have this problem: the name of image are
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>> (like David that is a "IDL guru" ;) or programmer that has already
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>
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>
> IDL> image = read_image('/Users/ben/12--345-67')
```

> IDL> help, image  
> IMAGE        BYTE     = Array[406, 408]  
>  
> Does that help?  
>  
> cheers,  
> Ben

---

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Subject: Re: open and save a set of image  
Posted by [David Fanning](#) on Mon, 20 Nov 2006 14:35:35 GMT  
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cecilia.devecchi@gmail.com writes:

> No, sorry....We open, read, extract our data. We have written the  
> following 'loop for' to open these data:  
>  
> file\_array=file\_search('filepath', '\*.200\*', count=num\_file)  
> for i=0, num\_file-1 do begin  
>    filename=file\_array(i)  
>    print, filename  
>    openr, lun, /get\_lun, filename  
>  
> ;read  
> free\_lun, lun  
> ;Analyze....  
> ....  
> ....  
> endfor  
>  
> But analyze only the first file.....where do we wrong?

What makes you think so? Are you sure this is the  
\*first\* file you analyzed, or the \*last\*? How would  
you tell the difference? What are you doing in the  
"analyze" step? Where are you storing the results of  
each analysis?

I'm off on a radio assignment today, so I'll have to  
leave it to Ben to sort this out. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---

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Subject: Re: open and save a set of image  
Posted by [greg michael](#) on Mon, 20 Nov 2006 17:04:43 GMT  
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---

Hold on - what's that \*.200\* about? That wouldn't match either of the names you showed.

Try beginning from something like:

```
print,file_search('D:\mydocs\tmp\*.*)
```

(or a path with just a \* for unix) - see if it lists what you expect.

many greetings,  
Greg

cecilia.devecchi@gmail.com wrote:

> No, sorry....We open, read, extract our data. We have written the  
> following 'loop for' to open these data:

```
>  
> file_array=file_search('filepath', '*.200*', count=num_file)  
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>   openr, lun, /get_lun, filename  
>  
> ;read  
> free_lun, lun  
> ;Analyze....  
> ....  
> ....  
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>
```

```
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```

```
>  
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```

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```
>
```

```
>> cecilia.devecchi@gmail.com wrote:
```

```
>>> Well, probably we're more newbie than others :).
```

```

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>>> We agree with Paul, we have given few details. We know that we need of
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>> IDL> help, image
>> IMAGE      BYTE      = Array[406, 408]
>>
>> Does that help?
>>
>> cheers,
>> Ben

```

---

Subject: Re: open and save a set of image  
 Posted by [cecilia.devecchi](#) on Tue, 21 Nov 2006 13:29:37 GMT  
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---

We have a set of hdf files about wind field. We extract these data of  
 an area on the Mediterranean Sea.  
 We extract these data and we write them in a \*.txt file with the  
 following lines:

```

fileout= 'C:\QS' + name + '.txt'
print,' OUTPUT FILE: ',fileout
openw,2,/get_lun, fileout
printf, 2, 'ASCENDING PASS (DAYTIME)'
printf, 2, '  LON    LAT    SPD    U    V    SPD2 COUNT
TIME
etc....
....
close, 2

```

With these lines, we succed to pass every file, but we succed to write in txt only the first file :

```
file_array=file_search('C:\QS\',$
 '*.200*', count=num_file)
for i=0, num_file-1 do begin
  filename=file_array(i)
  print, filename
  openr, lun, /get_lun, filename

;read, analisys so the lines that we found above
fileout= 'C:\QS' + name + '.txt'
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printf, 2, 'ASCENDING PASS (DAYTIME)'
printf, 2, '  LON    LAT    SPD    U    V    SPD2 COUNT
TIME
etc....
....
close, 2

free_lun, lun
endfor
```

How do we write (or we wrong) to write every files txt automatically?  
We hope to explain our problem.  
Thanks a lot  
Regards

greg michael ha scritto:

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> Hold on - what's that *.200* about? That wouldn't match either of the
> names you showed.
>
> Try beginning from something like:
>
> print,file_search('D:\mydocs\tmp\*.*)
>
> (or a path with just a * for unix) - see if it lists what you expect.
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> Greg
>
>
> cecilia.devecchi@gmail.com wrote:
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>> following 'loop for' to open these data:
```

```

>>
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>>   print, filename
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>>
>>   ;read
>>   free_lun, lun
>>   ;Analyze....
>>   ....
>>   ....
>> endfor
>>
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>> We hope to explain our problem....
>>
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>>> cecilia.devecchi@gmail.com wrote:
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>>> IMAGE      BYTE      = Array[406, 408]
>>>
>>> Does that help?
>>>

```

>>> cheers,  
>>> Ben

---

---

Subject: Re: open and save a set of image  
Posted by [Paolo Grigis](#) on Tue, 21 Nov 2006 14:29:36 GMT  
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---

I don't understand how your first example below can write more than one file?

Ciao,  
Paolo

cecilia.devecchi@gmail.com wrote:

```
> We have a set of hdf files about wind field. We extract these data of
> an area on the Mediterranean Sea.
> We extract these data and we write them in a *.txt file with the
> following lines:
>
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> in txt only the first file :
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> file_array=file_search('C:\QS\',$
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> printf, 2, 'ASCENDING PASS (DAYTIME)'
> printf, 2, ' LON    LAT    SPD    U    V    SPD2 COUNT
> TIME
> etc....
```



```

> ....
> close, 2
>
> free_lun, lun
> endfor
>
> How do we write (or we wrong) to write every files txt automatically?
> We hope to explain our problem.
> Thanks a lot
> Regards
>
>
> greg michael ha scritto:
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>> names you showed.
>>
>> Try beginning from something like:
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>> (or a path with just a * for unix) - see if it lists what you expect.
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>>> openr, lun, /get_lun, filename
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>>> ;read
>>> free_lun, lun
>>> ;Analyze....
>>> ....
>>> ....
>>> endfor
>>>
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```

>>>  
>>>  
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>>> Ben Tupper ha scritto:  
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>>>> I created a TIFF and saved it without an extension. IDL (6.3) read it  
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>>>> IMAGE        BYTE     = Array[406, 408]  
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>>>> Does that help?  
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>>>> cheers,  
>>>> Ben  
>  
>

---

---

Subject: Re: open and save a set of image  
Posted by [David Fanning](#) on Tue, 21 Nov 2006 14:49:11 GMT  
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---

cecilia.devecchi@gmail.com writes:

> How do we write (or we wrong) to write every files txt automatically?  
> We hope to explain our problem.

Let's see, I think we are back where we started from:  
"You do it in a loop." Where is the loop in which you write each data file? Do you end up with X number of files in your output directory? How many do you end up with? How can you tell if this is the data from the FIRST file or the LAST file? How could you check?

Here is what I would do. I would learn how to put a breakpoint in your code, and I would step through the code one command at a time, verifying that each step is the proper one, according to how you think the program should work.

I'm pretty sure you are making assumptions that just aren't true. But we can't tell anything from what you have shown us. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---

Subject: Re: open and save a set of image  
Posted by [Paul Van Delst\[1\]](#) on Tue, 21 Nov 2006 15:36:19 GMT  
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---

cecilia.devecchi@gmail.com wrote:

```
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> an area on the Mediterranean Sea.
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> TIME
> etc....
> ....
> close, 2
```

```
>
> With these lines, we succed to pass every file, but we succed to write
> in txt only the first file :
```

Only the first file? Or the last file?

```
>
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> for i=0, num_file-1 do begin
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>
> ;read, analisys so the lines that we found above
> fileout= 'C:\QS' + name + '.txt'
> print,' OUTPUT FILE: ',fileout
> openw,2,/get_lun, fileout
```

From your snippet, the name of the output file is the same for each input file. If this is actually what you want, then you should either:

- a) open the output file before the loop and close it after the loop, or
- b) open the output file in the loop with the /append specifier.

And, BTW, if you use /get\_lun in OPENW, you don't want the 2 in there. That is,

```
openw, 2, /get_lun, fileout
should be something like
```

```
openw, outfileid, fileout, /get_lun
```

Same for the printf statements. I'm assuming this is a transcription error in your post rather than your actual code.

A short working version of the code in question, rather than incomplete snippets, may shine more light on the actual problem.

cheers,

paulv

--

Paul van Delst            Ride lots.

CIMSS @ NOAA/NCEP/EMC

Eddy Merckx

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