Subject: Re: .dat file size Posted by mwvogel on Wed, 09 Jun 2004 09:14:34 GMT View Forum Message <> Reply to Message

```
My 2 cents (the site documentation on this code is pretty clear IMHO):
: first a few comments
volume = BytArr(80,100,50)
                                     ; make 3D volume of images with
dimension 80x100 pixels, of type BYTE
                                    ; do for each 'layer'
 FOR j=0,49 DO BEGIN
   image = Read_Tiff(sortedFiles[j]) ; read the image :-)
   volume[0, 0, i] = image
                                     ; store image at 'layer'
indexed with j, note that this is a trick, as explained on the site
 ENDFOR
Now for a set of 132 images (all identical in size!, and of type BYTE) with
have dimensions 123 x 231, you would do
volume = BytArr(123,231,132)
                                     ; make 3D volume of images with
dimension 123x231 pixels
 FOR j=0,131 DO BEGIN
   image = Read_Tiff(sortedFiles[j])
   volume[0, 0, j] = image
 ENDFOR
Now to ease your search for the right dimensions, you could do
HELP, Read_Tiff(sortedFiles[0]); shows [X,Y] dimensions of image
You did ask for something like this, right?
"Aleks" <siliconcube@yahoo.com> schreef in bericht
news:79140897.0406082205.78b69476@posting.google.com...
> Hi.
> I'm very new to IDL. I was on Mr. Fanning's website and trying to
> figure out the code. This is the website for 3D imaging (exactly what
> I'm required to do)
> http://www.dfanning.com/graphics_tips/mesh.html
>
 this is the part of the code i don't quiet understand
>
> volume = BytArr(80,100,50)
    FOR j=0,49 DO BEGIN
>
> I know the 50 comes from the fact that there are 50 different images
> so we are going to stack them(I have 81 in my own test project). Now
> the 80 and a 100 comes from some other place and I know that is the
> size of the array ie its a 80x100 array. I have a test 01.tif file how
> would I figure out the size of the array? I have winXP and I have
```

- > been battling this for nearly 3 hours (and i know this isn't even the
- > IDL problem =/) Any help would be apreciated.

Subject: Re: .dat file size

Posted by David Fanning on Wed, 09 Jun 2004 12:52:33 GMT

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Aleks writes:

- > I'm very new to IDL. I was on Mr. Fanning's website and trying to
- > figure out the code. This is the website for 3D imaging (exactly what
- > I'm required to do)
- > http://www.dfanning.com/graphics_tips/mesh.html

>

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> FOR j=0,49 DO BEGIN

>

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- > so we are going to stack them(I have 81 in my own test project). Now
- > the 80 and a 100 comes from some other place and I know that is the
- > size of the array ie its a 80x100 array. I have a test_01.tif file how
- > would I figure out the size of the array? I have winXP and I have
- > been battling this for nearly 3 hours (and i know this isn't even the
- > IDL problem =/)

Oh, dear. There are several ways to figure out the size of a TIFF file. Without reading it, you can use the QUERY_TIFF function to find out:

```
IDL> ok = Query_Tiff('test_01.tif', info)
IDL> Print, info.dimensions
     375 150
```

Or, you can just read one of the files and use the SIZE function to get the dimensions:

```
IDL> image = Read_TIFF('test_01.tif')
IDL> Print, Size(image, /Dimensions)
     375 150
```

(Assuming the file was 375 by 150. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: .dat file size

Posted by btt on Wed, 09 Jun 2004 13:04:27 GMT

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Aleks wrote:

>

> this is the part of the code i don't quiet understand

>

> volume = BytArr(80,100,50)

> FOR j=0,49 DO BEGIN

>

- > I know the 50 comes from the fact that there are 50 different images
- > so we are going to stack them(I have 81 in my own test project). Now
- > the 80 and a 100 comes from some other place and I know that is the
- > size of the array ie its a 80x100 array. I have a test_01.tif file how
- > would I figure out the size of the array?

Hello,

I think you are asking how to determine the size of the image in the tiff file(s). You can use the QUERY_**** routines to get basic information regarding the image before you read it into an IDL variable.

Something like this should work if your slices are stored in separate files (you can easily modify this for multi-tiff format.)

```
nImages = n_elements(file)

ok = QUERY_TIFF(file[0], info)

If ok Then Begin

volume = BytArr([info.dimensions, nImages], /noZero)

for i = 0, nimages-1 Do $
Volume[*,*,i] = READ_IMAGE(file[i])
```

Ben

Subject: Re: .dat file size

```
Posted by siliconcube on Wed, 09 Jun 2004 18:57:57 GMT
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Wow, thank you all very much for such quick and thorough replies, I
really apreciate it. I will try to help out to the rest of the board
with whatever little knoweldge I have of this program =).
thank you
Aleks
PS. Dr. Fanning, great book, great examples (publish more on image
processing =)
Aleks
Ben Tupper <a href="mailto:berlin.de">btupper@bigelow.org</a> wrote in message news:<2iog3lFp4iu4U1@uni-berlin.de>...
> Aleks wrote:
>
>> this is the part of the code i don't quiet understand
>>
   volume = BytArr(80,100,50)
     FOR j=0,49 DO BEGIN
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>> I know the 50 comes from the fact that there are 50 different images
>> so we are going to stack them(I have 81 in my own test project). Now
>> the 80 and a 100 comes from some other place and I know that is the
>> size of the array ie its a 80x100 array. I have a test 01.tif file how
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> Hello.
>
> I think you are asking how to determine the size of the image in the
> tiff file(s). You can use the QUERY_**** routines to get basic
> information regarding the image before you read it into an IDL variable.
>
  Something like this should work if your slices are stored in separate
  files (you can easily modify this for multi-tiff format.)
>
> nImages = n_elements(file)
```

```
> ok = QUERY_TIFF(file[0], info)
>
> If ok Then Begin
>
> volume = BytArr([info.dimensions, nImages], /noZero)
>
> for i = 0, nimages-1 Do $
> Volume[*,*,i] = READ_IMAGE(file[i])
>
> EndIf
>
> Ben
```