
Subject: Image question.

Posted by [pvemulakonda](#) on Wed, 12 Oct 1994 16:20:35 GMT

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How can I read an image on the screen into an integer array and store it as a data file (im.dat) consisting of integer data. Plz somebody help me with this.

Thanks.

Subject: Re: Image question.

Posted by [Geoff.Sobering](#) on Thu, 13 Oct 1994 13:40:01 GMT

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In article <1994Oct12.112035.26360@msuvx1.memphis.edu>, pvemulakonda@cc.memphis.edu (PAVAN VEMULAKONDA) wrote:

> How can I read an image on the screen into an integer array and store
> it as a data file (im.dat) consisting of integer data.

It is a two step process:

- 1) Copy the image on the screen (I assume in an IDL window) into an array using 'tvrd' (p. 16-5 in my 3.1 "User's Guide").
- 2) Write the array to disk as unformatted data using 'writeu' (p. 17-27 in the "User's Guide").

I use the following routine all the time for writing "raw" binary files:

PRO wrbbk, filename, image_array

get_lun,unit ;get logical unit number
openw,unit,filename ;open file

writeu, unit, image_array

close,unit ;close file
free_lun,unit ;free logical unit number

RETURN
END

--

Geoff Sobering (Geoff.Sobering@nih.gov)
In Vivo NMR Research Center
National Institutes of Health

Subject: Re: Image question.

Posted by [8015](#) on Thu, 13 Oct 1994 15:41:45 GMT

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In article <1994Oct12.112035.26360@msuvx1.memphis.edu>,

PAVAN VEMULAKONDA <pvemulakonda@cc.memphis.edu> wrote:

> How can I read an image on the screen into an integer array and store it as
> a data file (im.dat) consisting of integer data. Plz somebody help me with
> this.

>

> Thanks.

If the image is already on the display, use the the TVRD() function.

Something like:

IDL> image = tvrd() ; options for size and 24-bit may be included here

IDL> s = size(image) ; get the size of the image array

IDL> intimage = intarr(s(1), s(2)) ; create an int array using sizes

The '*' below allow you to fill the intimage array rather than recreate it

IDL> intimage(*,*) = image(*,*)

IDL> openw, lun, 'im.dat', /get_lun ; open the output file

IDL> writeu, lun, intimage ; write the image to the output file

IDL> free_lun, lun ; free the lun

Mike Schienle

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Goleta, CA 93117

Subject: Re: Image question.

Posted by [zawodny](#) on Thu, 13 Oct 1994 17:58:01 GMT

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In article <37jkfp\$17p@hacgate2.hac.com> 8015@sbsun0010.sbrc.hac.com (Mike Schienle) writes:

> In article <1994Oct12.112035.26360@msuvx1.memphis.edu>,

> PAVAN VEMULAKONDA <pvemulakonda@cc.memphis.edu> wrote:

>> How can I read an image on the screen into an integer array and store it as

>> a data file (im.dat) consisting of integer data. Plz somebody help me with

>> this.

>>

>> Thanks.

>

> If the image is already on the display, use the the TVRD() function.

> Something like:

>

> IDL> image = tvrd() ; options for size and 24-bit may be included here

> IDL> s = size(image) ; get the size of the image array

```
> IDL> intimage = intarr(s(1), s(2)) ; create an int array using sizes
> The '*' below allow you to fill the intimage array rather than recreate it
> IDL> intimage(*,*) = image(*,*)
> IDL> openw, lun, 'im.dat', /get_lun ; open the output file
> IDL> writeu, lun, intimage ; write the image to the output file
> IDL> free_lun, lun ; free the lun
>
> Mike Schienle
```

Sure this works, but why do so much work when the following will suffice:

```
IDL> openw, lun, 'im.dat', /get_lun ; open the output file
IDL> writeu, lun, fix(tvrd()) ; write the image to the output file
IDL> close,lun ; close the output file
IDL> free_lun, lun ; free the lun
```

--

Joseph M. Zawodny (KO4LW) NASA Langley Research Center
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Subject: Re: Image question.
Posted by [rob](#) on Fri, 14 Oct 1994 00:57:06 GMT
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:Sure this works, but why do so much work when the following will suffice:
[...]
:IDL> close,lun ; close the output file
:IDL> free_lun, lun ; free the lun

Furthermore, the CLOSE is redundant, as FREE_LUN does it.

Subject: Re: Image question.
Posted by [ratnakar amaravadi](#) on Fri, 14 Oct 1994 15:59:00 GMT
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In article <1994Oct12.112035.26360@msuvx1.memphis.edu> pvemulakonda@cc.memphis.edu
(PAVAN VEMULAKONDA) writes:
> How can I read an image on the screen into an integer array and store it as
> a data file (im.dat) consisting of integer data. Plz somebody help me with
> this.
>
> Thanks.

You can use IDL's TVRD function. The following code may work.

```
result = tvrd()
result=fix(result)
openw, 1, 'im.dat'
writeu, 1,result
```

Any comments welcome.

Ratnakar Amaravadi Software/Hardware Engineer
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--

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Subject: Re: Image question.
Posted by [amaravad](#) on Fri, 14 Oct 1994 15:59:39 GMT
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In article <1994Oct12.112035.26360@msuvx1.memphis.edu> pvemulakonda@cc.memphis.edu (PAVAN VEMULAKONDA) writes:
> How can I read an image on the screen into an integer array and store it as
> a data file (im.dat) consisting of integer data. Plz somebody help me with
> this.
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> Thanks.

You can use IDL's TVRD function. The following code may work.

```
result = tvrd()
result=fix(result)
openw, 1, 'im.dat'
writeu, 1,result
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Any comments welcome.

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--

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Subject: Re: Image question.
Posted by 8015 on Fri, 14 Oct 1994 16:17:26 GMT
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In article <37jsf9\$k4n@reznor.larc.nasa.gov>,
Joseph M Zawodny <zawodny@arbd0.larc.nasa.gov> wrote:
> In article <37jkfp\$17p@hacgate2.hac.com> 8015@sbsun0010.sbrc.hac.com (Mike Schienle)
writes:

< a lot of steps deleted >

>>

>> Mike Schienle

>

> Sure this works, but why do so much work when the following will suffice:

>

< fewer steps deleted >

I can think of two reasons:

- 1) I get paid by each line of code I write.
- 2) I didn't think of doing it the much simpler way you presented.

One of these reasons is correct. The other is wishful thinking.

Thanks,

Mike Schienle Hughes Santa Barbara Research Center
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