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**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.

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**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 wrbblk, 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

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

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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 <[pavemulakonda@cc.memphis.edu](mailto:pavemulakonda@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

Hughes Santa Barbara Research Center

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Voice: (805)562-7466 Fax: (805)562-7881 Goleta, CA 93117

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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](mailto:37jkfp$17p@hacgate2.hac.com)> [\(Mike Schienle\)](mailto:8015@sbsun0010.ssrc.hac.com) writes:

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

> PAVAN VEMULAKONDA <[pavemulakonda@cc.memphis.edu](mailto:pavemulakonda@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
```

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--  
Joseph M. Zawodny (KO4LW) NASA Langley Research Center  
Internet: [zawodny@arbd0.larc.nasa.gov](mailto:zawodny@arbd0.larc.nasa.gov) MS-475, Hampton VA, 23681-0001  
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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.

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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](mailto: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  
Division of Imaging Sciences PET Research Program  
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Ratnakar Amaravadi Software/Hardware Engineer  
Division of Imaging Sciences PET Research Program  
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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](mailto: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.

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--  
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Indianapolis IN 46202

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.ssrc.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.

— 1 —

Mike Schienle Hughes Santa Barbara Research Center  
8015@sbsun0010.sbrcc.hac.com 75 Coromar Drive, M/S B28/87  
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