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Subject: Re: Display ENVI image

Posted by [David Fanning](#) on Sat, 28 Feb 2004 15:26:52 GMT

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Ananth Kini writes:

```
> Could any of you tell me how to display an ENVI image using IDL
> statements *ONLY*? I have pasted a sample header of one of my images
> and few pixel values below.
> ~~~~~
> Header for the image :
> ~~~~~
> ENVI
> description = {
>   Band Math Result, Expression = [b1-b2] B1:IDL Var (GRID2USE): Band
>   1:top_ne
>   B2:Resize (IDL Var (GRID2USE): Band 1:dem05):dem05_ne [Tue Aug 27
>   10:50:33
>   2002]}
> samples = 911
> lines   = 1025
> bands   = 1
> header offset = 0
> file type = ENVI Standard
> data type = 4
> interleave = bsq
> sensor type = Unknown
> byte order = 0
> map info = {UTM, 1.000, 1.000, 267395.000, 4710962.000, 0.50000000,
>   0.50000000, 19, North, North America 1983, units=Meters}
> band names = {
>   Band Math (b1-b2)}
```

I don't have ENVI here, but I think what this header is telling you is that the image (which is stored in a separate file, as I understand it) is simply a 911 by 1025 2D image of floating point (type=4) data.

To read it, you would do this:

```
image = FltArr(911,1025)
OpenR, lun, whateverItsNamels, /Get_Lun
ReadU, lun, image
Free_lun, lun
```

That's it. Takes some of the mystery out of ENVI, doesn't it. :-)

There might be some other complications (byte ordering, etc.) depending upon your particular IDL environment (which you don't

tell us about), but this should get you pointed in the right direction.

Cheers,

David

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

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