

---

Subject: Re: envi\_setup\_head for TIFF

Posted by [Jeff N.](#) on Fri, 05 Oct 2007 14:30:49 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Oct 5, 7:29 am, L Rodrigues <leonardo.computa...@gmail.com> wrote:

```
> Hi everyone, I'm having a problem to show a TIFF image.
> After this code below, the image is shown with a shift to right in
> each line. (Near 1000 pixel shifted)
>
> envi_setup_head, FNAME = strFullFileName, NS = 4472, NL = 3263, NB =
> 1, $
>          DATA_TYPE = self.type, OFFSET = 8,
> INTERLEAVE = 0, $
>          BYTE_ORDER = 0, DATA_IGNORE_VALUE =
> -9999.0, $
>          R_FID = fid, /OPEN, /NO_REALIZE
>
> envi_display_bands, [fid],[0]
>
> Someone had this problem ?
>
> Thx in advance.
```

My first thought was that you're setting the offset value incorrectly, but its going to be hard to help you with this b/c there's no way we can tell if those keywords are set to the correct value, since we know nothing of the image you're opening. Here are two general suggestions though:

1) Try opening the image using the GUI, maybe saving it out to a temporary file, and seeing what kind of header ENVI creates for it. Then you'll have an idea what the header values should be, assuming ENVI opens it correctly.

2) Instead of using ENVI\_SETUP\_HEAD, use ENVI\_OPEN\_FILE. You won't need to know all the header values with that command, and in fact after you open the file you can use ENVI\_FILE\_QUERY to get the header values.

Cheers,  
Jeff

---

---

Subject: Re: envi\_setup\_head for TIFF

Posted by [Leonardo R. Sbaraini](#) on Fri, 05 Oct 2007 18:33:28 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Jeff, I tried ENVI\_OPEN\_FILE plus ENVI\_FILE\_QUERY but it did no

return the header size that is my goal.

By other way, I had success in reading some labels using the IFD offset in the header (field #3), but after byte 8 (after header) the data was supposed to be there....I read one single value (float) and it returned a value different from that ought to be.

Well let me explain better:

TIFF Header :

Byte Order | TIFF Identifier | IFD Offset  
(2bytes)      (2bytes) = 42      (4 bytes)

Normally the image values will be the next data.

```
. *****  
,  
; Piece of code to read a single value  
. *****  
,  
point_lun, fu, 8  
readu, fu, data  
print, 'data:', data
```

IDL prints:

1.2748951e-310

Real value in SRF file created before: 0.000000

This TIFF was generated by Envi Menu (Save as..)

The reason to read by this way (using point\_lun) is that I have big huge images here that cannot be stored in a IDL variable, so I cannot use READ\_TIFF. And other reason is that I need to output rect pieces into file.

Any help is welcome.

---

Subject: Re: envi\_setup\_head for TIFF  
Posted by [Jean H.](#) on Fri, 05 Oct 2007 18:54:04 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Leonardo R. Sbaraini wrote:

> I read one single value (float) and  
> it returned a value different from that ought to be.

> IDL prints:  
> 1.2748951e-310

>  
> Real value in SRF file created before: 0.000000

Leonardo,

A float can be up to  $\pm 10^{38}$ , with 7 significant digits.... so your value is likely not a float!

Have you created the data on the same computer you are trying to read it? ... it might be a little / big endian issue..

```
IDL> print, swap_endian(1.2748951e-310)
0.000000
```

Jean

---

---

Subject: Re: envi\_setup\_head for TIFF  
Posted by [Leonardo R. Sbaraini](#) on Fri, 05 Oct 2007 19:45:49 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

OMG....was it !

Very thx... ^.^

---