Subject: ENVI_WRITE_ENVI_FILE will not write header file
Posted by Oana Coman on Tue, 04 Jun 2013 00:49:08 GMT

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I have sat here for hours trying to figure out this seemingly simple task of writing out an envi file, but this procedure refuses to write a header file for my image.

I took all the code I wrote and just shortened it to these few lines:

```
startFile = 'file.img'
  ENVI_OPEN_FILE, startFile, R_FID=combined, NO_REALIZE=1
   if (combined eq -1) then begin
     PRINTERROR,2,'Failed to open' + inTRR
     return
   endif
  ENVI_FILE_QUERY, combined, ns=ns, nl=nl, nb=nb, data_type=data_type, descrip=descrip,
bnames=bnames, dims=dims
projection = ENVI_GET_PROJECTION(FID=combined, pixel_size=ps, units=units)

combinedImage = fltarr(ns,nl,nb)
  for b=0,nb-1,1 do begin
    combinedImage[*,*,b] = ENVI_GET_DATA(fid=combined, dims=dims, pos=b)
  endfor

out = 'out.img'
ENVI_WRITE_ENVI_FILE, combinedImage, INTERLEAVE=0, MAP_INFO=projection,
OUT_NAME=out, NB=nb, NL=nl, NS=ns, OUT_DT=4, OFFSET=0, OUT_NAME=out,
PIXEL_SIZE=ps
```

Then I basically want to resize some other input images, add them to this 'combined image', and output it back out, keeping the same projection/header information as the original combinedImage file (though I'm not even worried about doing the resizing/addition right now). I just want to output the file.

Seems simple enough. Not working though! I get no header when I output.

Then I tried to make my own header file using:
ENVI_SETUP_HEAD, FNAME=out,INTERLEAVE=0, DATA_TYPE=4, MAP_INFO=projection,
NB=nb, NL=nl, NS=ns, OFFSET=0, PIXEL_SIZE=ps, units=units, /WRITE

and I get the error 'Tag name O_RPC is undefined for structure ENVI_PROJ_STRUCT.'
I have no idea what that is.

When I print my projection information, this is what I get:
{ Mars Equirectangular Default   17   3396190.0   0.00000000   0.00000000
0.00000000   0.00000000   0.00000000   0.00000000
      0.00000000   0.00000000   0.00000000   0.00000000   0.00000000   0.00000000
0.00000000   0.00000000

0 D_Unknown   0   80398784
PROJCS["Mars Equirectangular
Default",GEOGCS["GCS_Unknown",DATUM["D_Unknown",SPHEROID[
"S_Unknown",3396190.0,0.0]],PRIMEM["Greenwich",0.0],UNIT[
"Degree",0.0174532925199433]],PROJECTION["Equidistant_Cylindrical
"],PARAMETER["False_Easting",0.0],PARAMETER["False_Northing
",0.0],PARAMETER["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1
",0.0],UNIT["Meter",1.0]]
        0}

That's the projection I've been using all along to run various procedures on my images, and they've been working fine.

Does anyone have any idea why IDL is not wanting to output my header information?
Thanks guys.