Subject: Re: ENVI_WRITE_ENVI_FILE will not write header file
Posted by Oana Coman on Tue, 04 Jun 2013 17:42:28 GMT
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On Tuesday, June 4, 2013 10:29:49 AM UTC-5, Brian J. Daniel wrote:
> On Monday, June 3, 2013 8:49:08 PM UTC-4, Kat wrote:
>
>> 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.
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>
>> I took all the code I wrote and just shortened it to these few lines:
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>
>> 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.
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>
>> Seems simple enough. Not working though! I get no header when I output.
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>
>> Then I tried to make my own header file using:
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>
>> 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.
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>>
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>
>> When I print my projection information, this is what I get:
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>>
>
>> { 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.
>
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>>
>
>> Does anyone have any idea why IDL is not wanting to output my header information?
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>
>> Thanks guys.
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>
> Do you have permissions to write where you are trying to write? The error messages (if any)
are not helpful if this is the case.

Yes, I have permission. I am able to run MATH_DOIT and other procedures that output the image

and its header just fine :(