
Subject: Re: Gram-Schmidt transformation
Posted by [Mort Canty](#) on Thu, 04 Jan 2007 18:30:11 GMT
[View Forum Message](#) <> [Reply to Message](#)

skymaxwell@gmail.com schrieb:

```
> how to use ENVI_GS_SHARPEN_DOIT procedure ?  
>  
> my IDL code not make any result file. But there no mistakes in  
> compilation and during running  
>  
> ...  
> ENVI_OPEN_FILE,file_Src_Mul,R_FID=fid_Src_Mul  
> ENVI_OPEN_FILE,file_Src_Pan,R_FID=fid_Src_Pan  
> ...  
> ENVI_FILE_QUERY,fid_Src_Pan,NS=f_ns_pan,NL=f_nl_pan,DIMS=pan_dims  
> ENVI_FILE_QUERY,fid_Src_Mul,NS=f_ns_mul,NL=f_nl_mul,DIMS=mul_dims,POS=pos_mul  
>  
> hi_res_dims=[-1L,0,f_ns_pan-1,0,f_nl_pan-1]  
>  
> ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',fid=fid_Src_Mul,HIRES_FID=fid_Src_Pan,$  
> INTERP=0,LORES_FID=[fid_Src_Mul,fid_Src_Mul,fid_Src_Mul],METHOD=0,$  
> OUT_NAME='C:\test.img'  
>  
>  
>  
> Thanks  
>
```

Hello,

You define the hi_res_dims array but you don't pass it to the batch routine with the HI_RES_DIMS keyword. The keyword is optional, but it might nevertheless be necessary for your images.

Cheers

Mort Canty

Subject: Re: Gram-Schmidt transformation
Posted by [skymaxwell@gmail.com](#) on Fri, 05 Jan 2007 07:48:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

nothing happened with HIRES_DIMS keyword

```
ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',fid=fid_Src_Mul,HIRES_FID=fid_Src_Pan,$  
INTERP=0,LORES_FID=[fid_Src_Mul,fid_Src_Mul,fid_Src_Mul],METHOD=0,$  
HIRES_DIMS=hi_res_dims,OUT_NAME='C:\test.img'
```

Subject: Re: Gram-Schmidt transformation
Posted by [Mort Canty](#) on Fri, 05 Jan 2007 08:59:50 GMT
[View Forum Message](#) <> [Reply to Message](#)

skymaxwell@gmail.com schrieb:

```
> nothing happened with HIRES_DIMS keyword
>
> ENVI_DOIT,'ENVI_GS_SHARPEN_DOIT',fid=fid_Src_Mul,HIRES_FID=fid_Src_Pan,$
> INTERP=0,LORES_FID=[fid_Src_Mul,fid_Src_Mul,fid_Src_Mul],MET HOD=0,$
> HIRES_DIMS=hi_res_dims,OUT_NAME='C:\test.img'
>
```

Have a closer look at the help for ENVI_GS_SHARPEN_DOIT. The LORES_FID keyword wants a long integer. You are passing it an array. I don't think you should use this keyword at all if you are using METHOD=0. Again, read the help carefully.

Can you do the pan sharpening with the same input data from the ENVI menu?

- Mort

Subject: Re: Gram-Schmidt transformation
Posted by [skymaxwell@gmail.com](#) on Fri, 05 Jan 2007 12:15:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

i'm read help again for ENVI_GS_SHARPEN_DOIT

in help showing that LORES_FID = array !

Syntax

```
ENVI_DOIT, 'ENVI_GS_SHARPEN_DOIT', DIMS=array | FID=fileID [,
/FILTER_FID=variable] [, HIRES_DIMS=array], HIRES_FID=fileID |
HIRES_POS=array | /IN_MEMORY [, INTERP={0 | 1 | 2}] [,
/LORES_DIMS=array] [, LORES_FID=array] [, LORES_POS=array] [,
M_FID=fileID] [, M_POS=array] [, MASK_VALUE=value], METHOD={0 | 1} [,
OUT_BNAME=string array], OUT_NAME=string | POS=array [, R_FID=fileID]
```

yes i can do pan sharpening through ENVI menu with same data files

Subject: Re: Gram-Schmidt transformation
Posted by [Mort Canty](#) on Fri, 05 Jan 2007 13:38:31 GMT
[View Forum Message](#) <> [Reply to Message](#)

skymaxwell@gmail.com schrieb:

> i'm read help again for ENVI_GS_SHARPEN_DOIT
>
> in help showing that LORES_FID = array !
>
>
> Syntax
> ENVI_DOIT, 'ENVI_GS_SHARPEN_DOIT', DIMS=array | FID=fileID [,
> /FILTER_FID=variable] [, HIRES_DIMS=array], HIRES_FID=fileID |
> HIRES_POS=array | /IN_MEMORY [, INTERP={0 | 1 | 2}] [,
> /LORES_DIMS=array] [, LORES_FID=array] [, LORES_POS=array] [,
> M_FID=fileID] [, M_POS=array] [, MASK_VALUE=value], METHOD={0 | 1} [,
> OUT_BNAME=string array], OUT_NAME=string | POS=array [, R_FID=fileID]
>
>
> yes i can do pan sharpening through ENVI menu with same data files
>

I'm afraid that that must be a misprint. If it is a file ID, it can't be an array. Look at the explanation for the keyword later in the online help:

LORES_FID (optional)

Use this optional keyword to specify the file ID for the low spatial resolution panchromatic file. You must specify LORES_FID if METHOD=1. This value is returned from the keyword R_FID in the ENVI_OPEN_FILE procedure. LORES_FID is a long integer with a value greater than 0. An invalid file ID has a value of -1.

As I said, I don't think you need it for METHOD=0.

-Mort
