
Subject: Re: Adding a structure inside a previous one
Posted by [titan](#) on Mon, 28 Jun 2010 13:51:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Jun 16, 9:27 am, titan <thunder...@inwind.it> wrote:

> On Jun 10, 5:13 pm, titan<thunder...@inwind.it> wrote:

>
>
>
>
>

>> Hy everybody,
>> I'm trying to define a my new projection using IDL.
>> Using the ENVI routines "ENVI_GET_PROJECTION" and
>> "ENVI_GET_MAP_INFO", respectively, I can get all the info I need:

>
>> ** Structure ENVI_PROJ_STRUCT, 9 tags, length=184, data length=174:

```
>> NAME      STRING  'MAP Global'
>> TYPE      INT      99
>> PARAMS    DOUBLE  Array[15]
>> UNITS     INT      0
>> DATUM     STRING  'WGS-84'
>> USER_DEFINED INT    0
>> PE_COORD_SYS_OBJ
>>           ULONG64    0
>> PE_COORD_SYS_STR
>>           STRING  ""
>> PE_COORD_SYS_CODE
>>           ULONG    0
```

>
>> ENVI> help,/st,ENVI_map_info

>> ** Structure ENVI_MAP_INFO_STRUCT, 11 tags, length=328, data
>> length=310:

```
>> PROJ      STRUCT  -> ENVI_PROJ_STRUCT Array[1]
>> MC        DOUBLE  Array[4]
>> PS        DOUBLE  Array[2]
>> ROTATION  DOUBLE   0.00000000
>> PSEUDO    INT      0
>> KX        DOUBLE  Array[2, 2]
>> KY        DOUBLE  Array[2, 2]
>> BEST_ROOT INT      0
>> O_RPC     OBJREF  <NullObject>
>> NS        LONG    0
>> NL        LONG    0
```

>
>> So I write the following lines in order to obtain the same output:

```
>> ;;
>> *****_*****
```

```

>> my_map_info_proj=CREATE_STRUCT('NAME','MAP Global','TYPE',
>> 99,'PARAMS',DBLARR(15),'UNITS',0,'DATUM','WGS-84','USER_DEFINED',
>> 0,'PE_COORD_SYS_OBJ',ULONG64(0)$
>>
>> ,PE_COORD_SYS_STR','PE_COORD_SYS_CODE',ULONG(0),NAME='MY
>> _PROJ_INFO_STRUCT')
>
>> my_map_info_proj.params(0)=6371228.0
>> my_map_info_proj.params(1)=6371228.0
>> my_map_info_proj.params(6)=30
>> my_img_pixel_size=[25067.525,25067.525]
>
>> my_map_units=ENVI_TRANSLATE_PROJECTION_UNITS('meters')
>
>> ;; *****Create the total MAP_INFO STRUCTURE*****
>
>> map_info=CREATE_STRUCT('MC',DBLARR(4),'PS',DBLARR(2),'ROTATION',
>> 0.00000000,'PSEUDO',0,'KX',DBLARR(2,2),'KY',DBLARR(2,2),$
>> 'BEST_ROOT',0,'O_RPC',OBJ_NEW(),'NS',
>> 0L,'NL',0L,NAME='MY_MAP_INFO_STRUCT')
>
>> my_map_info.PTRARR(0)=AMSRE_map_info_proj_ptr
>> my_map_info.mc(0)=(1.50000000)
>> my_map_info.mc(1)=(1.50000000)
>> my_map_info.mc(2)=(-1732159.7750)
>> my_map_info.mc(3)=(7332251.0625)
>> my_map_info.ps(0)=(25067.525)
>> my_map_info.ps(1)=(25067.525)
>> ;;
>> -----
>
>> Looking at the help information on the structures I create I get:
>
>> ** Structure MY_PROJ_INFO_STRUCT, 9 tags, length=184, data length=174:
>> NAME      STRING  'MAP Global'
>> TYPE      INT      99
>> PARAMS    DOUBLE   Array[15]
>> UNITS     INT      0
>> DATUM     STRING   'WGS-84'
>> USER_DEFINED INT      0
>> PE_COORD_SYS_OBJ
>>           ULONG64      0
>> PE_COORD_SYS_STR
>>           STRING   "
>> PE_COORD_SYS_CODE
>>           ULONG    0
>
>> which corresponds to the output of ENVI_GET_PROJECTION;

```

```
>  
>> ** Structure MY_MAP_INFO_STRUCT, 10 tags, length=136, data length=132:  
>> MC          DOUBLE  Array[4]  
>> PS          DOUBLE  Array[2]  
>> ROTATION    FLOAT   0.000000  
>> PSEUDO      INT     0  
>> KX          DOUBLE  Array[2, 2]  
>> KY          DOUBLE  Array[2, 2]  
>> BEST_ROOT   INT     0  
>> O_RPC       OBJREF  <NullObject>  
>> NS          LONG    0  
>> NL          LONG    0  
>
```

```
>> My question is: how can I pass to the MY_MAP_INFO_STRUCT the  
>> structure MY_PROJ_INFO_STRUCT in order to get the same result as in  
>> ENVI_MAP_INFO_STRUCT (i.e. the presence of the tag:PROJ  
>> STRUCT -> ENVI_PROJ_STRUCT Array[1])??  
>
```

```
>> thank you very much  
>
```

```
> Could anyone help me??  
>
```

```
> thank you- Hide quoted text -  
>
```

```
> - Show quoted text -
```

Hi all!

I solved the problem on my own..it was necessary to use the ENVI_MAP_INFO_CREATE routine using the "PROJ" keyword equal to the MY_PROJ_INFO_STRUCT together with the other keywords..
