
Subject: Re: Adding a structure inside a previous one

Posted by [titan](#) on Wed, 16 Jun 2010 07:27:12 GMT

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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_DEFI NED',
> 0,'PE_COORD_SYS_OBJ',ULONG64(0)$
>
> ,'PE_COORD_SYS_STR','PE_COORD_SYS_CODE',ULONG(0),NAME='MY
> _PROJ_INFO_STRU-CT')
```

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>
> 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),'ROTATI ON',
> 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
