
Subject: Re: lunch envi function in 'batch mode'

Posted by [Robert Moss](#) on Thu, 17 Nov 2005 13:08:18 GMT

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S.Cogliati wrote:

```
> Hi, I'm developing an Idl application that utilize an Envi function
> (Envi_compute_sun_angles) so I lunch envi in batch mode in this way:
>
> ;start ENVI batch_mode
> OpenW, batch_lun, 'batch_log_from_ENVI.txt', /Get_LUN
> ENVI, /restore_base_save_files
> ENVI_INIT, /batch_mode, batch_unit=batch_lun
> free_lun, batch_lun
>
> ;compute the elevation angle
> elev=ENVI_COMPUTE_SUN_ANGLES (Day, Month, Year, GMTtime, Lat, Lon)
>
>
> I'm sure that when I compile the project the Envi routines are loaded,
> but the first time that I run the code Idl stops at the Envi function
> call instruction and send me this error message:
>
> % XMANAGER: Caught unexpected error from client application. Message
> follows...
> % Variable is undefined: ENVI_COMPUTE_SUN_ANGLES.
> % Execution halted at: RHO_PANEL      47
> C:\OO_import_v20.0mod\rho_panel.pro
> %          COMPUTE_STAT2    50
> C:\OO_import_v20.0mod\compute_stat2.pro
> %          XMANAGER_EVLOOP_STANDARD 478
> C:\RS\IDL61\lib\xmanager.pro
> %          XMANAGER      708
> C:\RS\IDL61\lib\xmanager.pro
> %          GUI_PRO      27
> C:\OO_import_v20.0mod\gui.pro
> %          $MAIN$
>
>
> After the first time that Idl stops there code runs correctly.
>
> Regards, S.Cogliati
>
```

I do not think this is an ENVI problem. Try putting the command
COMPILE_OPT STRICTARR at the top of the procedure that is calling
ENVI_COMPUTE_SUN_ANGLES. I suspect IDL thinks it is a variable instead
of a function. If you are using parenthesis for array indices (shame on
you), try using FORWARD_FUNCTION ENVI_COMPUTE_SUN_ANGLES instead.

--

Robert Moss, PhD

Subject: Re: lunch envi function in 'batch mode'

Posted by [MarioIncandenza](#) on Fri, 18 Nov 2005 17:25:24 GMT

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Hi,

Unless you really need ENVI functions that aren't implemented in IDL (and there aren't that many), or are actually using the ENVI GUI, you might want to use IDL routines, especially for simple things like solar position. For instance, the ZENSUN routine does everything ENVI_COMPUTE_SUN_ANGLES does:

<http://www.mpimet.mpg.de/en/misc/software/idl/html/src/esrg/zensun.pro>

Cheers,

Edward Hyer.

Subject: Re: lunch envi function in 'batch mode'

Posted by [S.Cogliati](#) on Tue, 22 Nov 2005 20:06:02 GMT

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Mr. Hyer, I resolved my problem!!

thank you for the very usefull links.

regards S.Cogliati
