
Subject: IDL-Python Bridge: problem with the ENVI function.

Posted by [loreberna](#) on Wed, 23 Mar 2016 11:46:26 GMT

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Hi all,

my aim is to use a script written in IDL, into python:

IDL code:

```
PRO PS_GS
; Start the application
e = ENVI()
;Generate the roi from a vector file
; Open a vector file
file_vec = Filepath('Sic_Trapani.shp', ROOT_DIR = 'E:\mydirectory\')
vettore = e.OpenVector(file_vec)
; Get the task from the catalog of ENVITasks
Task_VtoR = ENVITask('VectorRecordsToROI')
; Define inputs
Task_VtoR.INPUT_VECTOR = vettore
; Define outputs
Task_VtoR.OUTPUT_ROI_URI = Filepath('roi_roi.xml', ROOT_DIR = 'E:\mydirectory\')
;Run the task
Task_VtoR.Execute
END
```

The above code, launched into IDL command prompt, works correctly.

I want make a python script that:

- option 1) launch the above idl .pro script
- option 2) use the IDL to Python Bridge syntax.

In the first case, using the ``subprocess.call("idldirectory\idl.exe")`` command, i can open the IDL prompt into the windows command prompt. But i can not execute any IDL function like a simple ``PRINT, 'hello'``.

In the second case, i write the following poython code:

```
import subprocess
from subprocess import call
import idlpy
from idlpy import IDL
e=IDL.ENVI()
msi_file = """IDL.Filepath(mydata.tif", ROOT_DIR = 'mydirectory')"""
msi_raster = IDL.OpenRaster(msi_file)
```

The instruction ``e=IDL.ENVI()`` work correctly, in fact an Envi setion starts.

The instruction ``msi_file = ""IDL.Filepath(mydata.tif', ROOT_DIR = 'mydirectory')""`` work correctly.

My problem is with the OpenRaster instruction. It is an ENVI instruction and not an IDL instruction. So, `IDL.OpenRaster` does not work, and i do not have any solutions.

I have modified the code like:

```
msi_raster=IDL.ENVI().OpenRaster(msi_file)
```

The result is the following error message:

Impossible find the access point

??0LTISceneBuffer@LizardTech@@QEAA@AEBVLTIPixel@1@IPEAPEAX@ Z
into the dynamic link library lti_DSDK.dll

Googling i have found this site:

Malware scan of gdal110.dll

Any help or suggestion? Thanks
