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 sintax.

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@IIPEAPEAX@ 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

Subject: Re: IDL-Python Bridge: problem with the ENVI function.
Posted by Helder Marchetto on Wed, 23 Mar 2016 14:24:57 GMT
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Hi,
regarding Option 1:

Try compiling your file:
resolve_routine, 'PS_GS', /compile_full_file, /either
resolve_all
save, /routines, 'yourDirectory\ps_gs.sav'

Then try calling

subprocess.call("idldirectory\idlrt.exe yourDirectory\ps_gs.sav")

This works on my pc. I don't have Envi to test it though... I made a simple file with just
p = plot(/test)
inside and it works.

I didn't test the call from python, but it works from the command line.

Cheers,
Helder

On Wednesday, March 23, 2016 at 11:46:29 AM UTC, lore...@gmail.com wrote:
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>

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> Malware scan of gdal110.dll
> Any help or suggestion? Thanks

Subject: Re: IDL-Python Bridge: problem with the ENVI function.
Posted by Jim Pendleton on Wed, 23 Mar 2016 14:37:44 GMT
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On Wednesday, March 23, 2016 at 5:46:29 AM UTC-6, lore...@gmail.com wrote:
> Hi all,
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> Googling i have found this site:
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> Any help or suggestion? Thanks

You have a reference to the ENVI object in your variable "e". Use this syntax instead:

msi_raster = e.OpenRaster(msi_file)

Jim P

Subject: Re: IDL-Python Bridge: problem with the ENVI function.
Posted by loreberna on Wed, 23 Mar 2016 15:57:33 GMT
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For Jim P.
The sintax msi_raster=e.OpenRaster(msi_file) generate the same lti_dsdk.dll error.

On Wednesday, March 23, 2016 at 3:37:48 PM UTC+1, Jim P wrote:
> On Wednesday, March 23, 2016 at 5:46:29 AM UTC-6, lore...@gmail.com wrote:
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Subject: Re: IDL-Python Bridge: problem with the ENVI function.
Posted by Jim Pendleton on Wed, 23 Mar 2016 17:49:13 GMT
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On Wednesday, March 23, 2016 at 9:57:37 AM UTC-6, lore...@gmail.com wrote:
> For Jim P.
> The sintax msi_raster=e.OpenRaster(msi_file) generate the same lti_dsdk.dll error.
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>> msi_raster = e.OpenRaster(msi_file)
>>
>> Jim P

This must be a platform specific bug. The LizardTech library is a 3rd party tool used to handle certain types of image compression.

Is the msi_raster object reference valid, in spite of the error message?

If you haven't done so already, please report this issue to support@exelisvis.com, along with the information about your platform and the format of the file you are attempting to read.

Jim P.
