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Subject: Re: IDL-python bridge issue for MacOS Sierra 10.12.2 (Library not loaded: libpython2.7.dylib)

Posted by [tianhuachengyue](#) on Thu, 01 Jun 2017 10:25:08 GMT

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On Wednesday, May 31, 2017 at 7:22:02 PM UTC-7, Chris Torrence wrote:

> On Sunday, May 28, 2017 at 5:19:11 PM UTC-6, huazeng wrote:

>> Hi guys,

>>

>> I installed IDL 8.5.1 successfully on my MacOS Sierra 10.12.2 following the instructions from

>>

>> <http://www.harrisgeospatial.com/Support/Forums/tabid/2342/af t/4715/Default.aspx>

>>

>> However, when I tried to set up the IDL-python bridge, I run into an issue (I'm using python 2.7, the preinstalled version on my mac, not Anaconda). When I ran:

>>

>> np = Python.Import('numpy')

>>

>> I got the error message:

>>

>> % DLM\_LOAD: Error loading sharable executable.

>> Symbol: IDL\_Load, File = /Applications/exelis/idl85/bin/bin.darwin.x86\_64/idl\_python2 7.so

>> dlopen(/Applications/exelis/idl85/bin/bin.darwin.x86\_64/idl\_python27.so, 1): Library not loaded: libpython2.7.dylib

>> Referenced from: /Applications/exelis/idl85/bin/bin.darwin.x86\_64/idl\_python2 7.so

>> Reason: image not found

>>

>>

>> I searched the web and followed one post by Chris Torrence (<http://stackoverflow.com/questions/38468764/idl-python-bridge-fails-due-to-sip-on-osx-el-capitan>) to set up the path, but still got the same error. Here are the steps I did on my mac:

>>

>> =====

>> First, set up the paths:

>> export PATH /System/Library/Frameworks/Python.framework/Versions/2.7/bin :\${PATH}

>> export PYTHONHOME /System/Library/Frameworks/Python.framework/Versions/2.7

>> export PYTHONPATH /Users/username/Applications/exelis/idl/bin/bin.darwin.x86\_64

>> export PYTHONPATH \${PYTHONPATH}:/Users/username/Applications/exelis/idl85/lib/bridges

>>

>> Then, for the IDL-to-Python bridge, run the following commands:

>> cd Applications/exelis/idl85/bin/bin.darwin.x86\_64/

>> sudo install\_name\_tool -change libpython2.7.dylib

/System/Library/Frameworks/Python.framework/Versions/Current /lib/libpython2.7.dylib pythonidl27.so

>>

>> For the Python-to-IDL bridge (some of these are duplicated from above):

```

>>
>> cd Applications/exelis/idl85/bin/bin.darwin.x86_64/
>>
>> sudo install_name_tool -change libidl.8.5.dylib @loader_path/libidl.8.5.dylib pythonidl27.so
>> sudo install_name_tool -change libidl_ips.8.5.dylib @loader_path/libidl_ips.8.5.dylib
pythonidl27.so
>>
>> sudo install_name_tool -change libpython2.7.dylib
/System/Library/Frameworks/Python.framework/Versions/Current /lib/libpython2.7.dylib
pythonidl27.so
>>
>>
>> At this point, DYLD_LIBRARY_PATH is still needed in the .login to specify IDL's bin
directory. To eliminate that, the following updates can be made to tell various libraries where to
find their dependencies:
>>
>> sudo install_name_tool -change libMesaGL6_2.dylib @loader_path/libMesaGL6_2.dylib
libidl.8.5.dylib
>> sudo install_name_tool -change libMesaGLU6_2.dylib @loader_path/libMesaGLU6_2.dylib
libidl.8.5.dylib
>> sudo install_name_tool -change libOSMesa6_2.dylib @loader_path/libOSMesa6_2.dylib
libidl.8.5.dylib
>> sudo install_name_tool -change libXm.3.0.2.dylib @loader_path/libXm.3.0.2.dylib
libidl.8.5.dylib
>> sudo install_name_tool -change libMesaGL6_2.dylib @loader_path/libMesaGL6_2.dylib
libMesaGLU6_2.dylib
>> sudo install_name_tool -change libMesaGL6_2.dylib @loader_path/libMesaGL6_2.dylib
libOSMesa6_2.dylib
>> sudo install_name_tool -change libidl.8.5.dylib @loader_path/libidl.8.5.dylib libidl_ips.8.5.dylib
>> =====
>>
>> After these settings, when I try to import python modules in IDL, the error message says
Library not loaded: libpython2.7.dylib... Can anyone help me on this?
>>
>> Cheers,
>> Huazeng
>
> I don't think the IDL Python bridge is going to work with the stock Python that comes on the
Mac. It's either missing a bunch of libraries or they're too old. You're better off installing a version
of Anaconda, preferably containing Python 3.5.
>
> Cheers,
> Chris

```

Thanks very much for your advice Chris! I'll install Anaconda and see if it works.

Cheers,  
Huazeng

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