

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

Posted by [chris_torrence@NOSPAM](#) on Thu, 01 Jun 2017 02:22:00 GMT

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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-bridg e-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_6 4
> 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
