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

Posted by [tianhuachengyue](#) on Sun, 28 May 2017 23:19:09 GMT

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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](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
