
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

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
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> 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:
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>
> np = Python.Import('numpy')
>
> I got the error message:
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> % DLM_LOAD: Error loading sharable executable.
>       Symbol: IDL_Load, File = /Applications/exelis/idl85/bin/bin.darwin.x86_64/idl_python2
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>       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
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>
>
> 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:
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> =====
> 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
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> 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
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> For the Python-to-IDL bridge (some of these are duplicated from above):
>
> cd Applications/exelis/idl85/bin/bin.darwin.x86_64/
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> sudo install_name_tool -change libidl.8.5.dylib @loader_path/libidl.8.5.dylib pythonidl27.so
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pythonidl27.so
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> 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
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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?
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> 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

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

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

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not loaded: libpython2.7.dylib
>>      Referenced from: /Applications/exelis/idl85/bin/bin.darwin.x86_64/idl_python2 7.so
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>> export PYTHONPATH ${PYTHONPATH}:/Users/username/Applications/exelis/idl85/lib/
bridges
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>> Then, for the IDL-to-Python bridge, run the following commands:
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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
