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Subject: Re: Error in IDL-Python Bridge

Posted by [penteado](#) on Wed, 09 Sep 2015 00:20:27 GMT

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On Tuesday, September 8, 2015 at 8:20:57 AM UTC-7, Chris Torrence wrote:

> That sounds like a path issue, either with \$PATH or \$LD\_LIBRARY\_PATH. That Py\_DecRef is part of the C API for Python, and should be found within the python27.so.

Thanks, Chris. That tip pointed me to a fix for that problem.

I had previously checked that all necessary directories were in PATH, PYTHONPATH and LD\_LIBRARY\_PATH, and I had checked that the matplotlib import worked directly from Python. But given that I could use Python from IDL, and the problem happened only when importing matplotlib, I assumed it was some missing Python library.

Now, I do see that symbol is defined in Anaconda's libpython2.7.so, which is being found:

```
$ ldd idl_python27.so
```

```
linux-vdso.so.1 => (0x00007fffe59fe000)
libpython2.7.so.1.0 => /usr/local/anaconda/lib/libpython2.7.so.1.0 (0x00002adc17360000)
libc.so.6 => /lib64/libc.so.6 (0x00002adc177a3000)
libpthread.so.0 => /lib64/libpthread.so.0 (0x00002adc17b63000)
libdl.so.2 => /lib64/libdl.so.2 (0x00002adc17d7f000)
libutil.so.1 => /lib64/libutil.so.1 (0x00002adc17f84000)
libm.so.6 => /lib64/libm.so.6 (0x00002adc18187000)
/lib64/ld-linux-x86-64.so.2 (0x000000314c000000)
```

It is weird that it does not get found when I try to import the library from IDL (even an ldd spawned from IDL did find the library), but a LD\_PRELOAD before starting IDL (export LD\_PRELOAD=/usr/local/anaconda/lib/libpython2.7.so.1.0) does fix that problem.

Now, the only problem is a segfault when trying to display a plot (doing a plt.show() in the example)...

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