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Python executable not finding libpython shared library

I am installing Python 2.7 on CentOS 5. I built and installed Python as follows

```
./configure --enable-shared --prefix=/usr/local
make
make install
```

When I try to run /usr/local/bin/python, I get this error message

```
/usr/local/bin/python: error while loading shared libraries: libpython2.7.so.1.0: can
```

When I run ldd on /usr/local/bin/python, I get

```
ldd /usr/local/bin/python
    libpython2.7.so.1.0 => not found
    libpthread.so.0 => /lib64/libpthread.so.0 (0x00000030e9a00000)
    libdl.so.2 => /lib64/libdl.so.2 (0x00000030e9200000)
    libutil.so.1 => /lib64/libutil.so.1 (0x00000030fa200000)
    libm.so.6 => /lib64/libm.so.6 (0x00000030e9600000)
    libc.so.6 => /lib64/libc.so.6 (0x00000030e8e00000)
    /lib64/ld-linux-x86-64.so.2 (0x00000030e8a00000)
```

How do I tell Python where to find libpython?

python

edited Oct 24 '11 at 19:06   asked Oct 24 '11 at 18:58

                                               sans
                                               477 1 6 17

add comment

3 Answers

Try the following:

```
LD_LIBRARY_PATH=/usr/local/lib /usr/local/bin/python
```

Replace `/usr/local/lib` with the folder where you have installed `libpython2.7.so.1.0` if it is not in `/usr/local/lib`.

If this works and you want to make the changes permanent, you have two options:

1. Add `export LD_LIBRARY_PATH=/usr/local/lib` to your `.profile` in your home directory (this works only if you are using a shell which loads this file when a new shell instance is started). This setting will affect your user only.

2. Add `/usr/local/lib` to `/etc/ld.so.conf` and run `ldconfig` . This is a system-wide setting of course.

edited Dec 6 '11 at 10:34   answered Oct 24 '11 at 19:03

Tamás
17.6k 2 37 70

Is there a way to export it so that it works with eclipse? I've added it to my .profile however then Eclipse is not able to launch gdb. (Note: Adding it to ld.so.conf works however) – Setheron Sep 24 '12 at 18:03

I think you have two options: 1) setting LD_LIBRARY_PATH in the terminal before launching Eclipse (from the same terminal of course) or 2) setting LD_LIBRARY_PATH from within the appropriate Run/Debug configuration dialog where you can set environment variables. – Tamás Sep 24 '12 at 19:01

so I checked the environment variables eclipse is running with and it does have the proper LD_LIBRARY_PATH. I believe that when it launches GDB it doesn't use any shell and therefore doesn't get any environment variables! Setting the libpython in the debug configuration didn't help neither since that is only for when gdb actually loads (but i need the lib for gdb itself to load) – Setheron Sep 24 '12 at 21:45

Can you debug the application successfully when you run `gdb` from the command line and LD_LIBRARY_PATH is set up properly in the terminal? If not, you will probably have to set up LD_LIBRARY_PATH in your `.gdbinit` file. See this answer for more info: stackoverflow.com/a/7041845/156771 – Tamás Sep 25 '12 at 9:29

I need the LD_LIBRARY_PATH for launch gdb (python libs) not for the actual debugging of my application. So far I've only managed to fix it by setting it in ldconfig. I can debug the application via CLI because it'll pickup the LD_LIBRARY_PATH from my ZSHRC file however. – Setheron Sep 26 '12 at 21:14

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I had the same problem and I solved it this way:

If you know where libpython resides at, I supposed it would be `/usr/local/lib/libpython2.7.so.1.0` in your case, you can just create a symbolic link to it:

```
sudo ln -s /usr/local/lib/libpython2.7.so.1.0 /usr/lib/libpython2.7.so.1.0
```

Then try running `ldd` again and see if it worked.

answered Oct 16 '13 at 11:24

Omer Dagan
717 3 16

worked for me after doing an 'ldconfig' – Kevin Jan 5 at 19:28

add comment

just install python-lib. (python27-lib). It will install libpython2.7.so1.0. We don't require to manually set anything.

answered Mar 1 at 6:45

chin2
1

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