

Alpine Linux - Bug #6874

libboost-python3 appears to be built against Python 2.x and is underlinked?

02/16/2017 03:01 PM - Michael Hart

Status:	Closed	Start date:	02/16/2017
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	3.5.2	Security IDs:	
Affected versions:			
Description			
<p>ldd of /usr/lib/libboost_python3.so.1.62.0 outputs 236 lines of: Error relocating /usr/lib/libboost_python3.so.1.62.0: PyNumber_InPlaceDivide: symbol not found and similar errors.</p> <p>LD_PRELOAD'ing libstdc++ reduces this to 139, trying to LD_PRELOAD libpython3 as well I'd expect to reduce the errors to 0, instead I'm left with:</p> <pre>/ # LD_PRELOAD=/usr/lib/libstdc++.so.6:/usr/lib/libpython3.so ldd /usr/lib/libboost_python3.so.1.62.0 2>&1 ldd (0x55620da01000) /usr/lib/libstdc++.so.6 => /usr/lib/libstdc++.so.6 (0x7fecf5d29000) /usr/lib/libpython3.so => /usr/lib/libpython3.so (0x7fecf5b27000) libgcc_s.so.1 => /usr/lib/libgcc_s.so.1 (0x7fecf5915000) libc.musl-x86_64.so.1 => ldd (0x55620da01000) libpython3.5m.so.1.0 => /usr/lib/libpython3.5m.so.1.0 (0x7fecf54a7000) Error relocating /usr/lib/libboost_python3.so.1.62.0: PyInt_FromLong: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: Py_InitModule4_64: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_AsString: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_InternFromString: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyFile_AsFile: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_FromString: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyInt_Type: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_Type: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyClass_Type: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyUnicodeUCS4_FromEncodedObject: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_Size: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyFile_FromString: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyUnicodeUCS4_AsWideChar: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyInt_AsLong: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_FromStringAndSize: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyNumber_InPlaceDivide: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyNumber_Divide: symbol not found Error relocating /usr/lib/libboost_python3.so.1.62.0: PyString_FromFormat: symbol not found</pre>			
<p>These look like Python2.x details (PyInt_AsLong for example, since int/long were unified in Python3)</p> <p>Replacing libpython3 with libpython2.7.so.1.0 does reduce the errors to zero however:</p> <pre>/ # LD_PRELOAD=/usr/lib/libstdc++.so.6:/usr/lib/libpython2.7.so.1.0 ldd /usr/lib/libboost_python3.so.1.62.0 2>&1 ldd (0x5556aa5b5000) /usr/lib/libstdc++.so.6 => /usr/lib/libstdc++.so.6 (0x7fe5d8b11000) /usr/lib/libpython2.7.so.1.0 => /usr/lib/libpython2.7.so.1.0 (0x7fe5d876e000) libgcc_s.so.1 => /usr/lib/libgcc_s.so.1 (0x7fe5d855c000) libc.musl-x86_64.so.1 => ldd (0x5556aa5b5000)</pre>			
Related issues:			
Has duplicate Alpine Linux - Bug #6615: symbol not found in boost libraries		New	01/03/2017

Associated revisions

Revision 93d06d45 - 02/20/2017 02:21 PM - Natanael Copa

main/boost: fix boost_python3

ref #6874

upstream: <https://github.com/boostorg/build/issues/163>

Revision 3e6cf4c9 - 02/20/2017 04:48 PM - Natanael Copa

main/boost: fix boost_python3

fixes #6874

upstream: <https://github.com/boostorg/build/issues/163>

History

#1 - 02/16/2017 03:09 PM - Michael Hart

To demonstrate the issue from python you'll need to

```
RUN apk add --update --no-cache git libstdc++ build-base python3-dev graphicsmagick graphicsmagick-dev boost-py
ython3 boost-dev
pip3 install pgmagick
```

then from a python prompt:

```
/ # python3
Python 3.5.2 (default, Dec 22 2016, 10:15:38)
[GCC 6.2.1 20160822] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import pgmagick
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "/usr/lib/python3.5/site-packages/pgmagick/__init__.py", line 1, in <module>
    from pgmagick import _pgmagick
ImportError: Error relocating /usr/lib/python3.5/site-packages/pgmagick/_pgmagick.cpython-35m-x86_64-linux-gnu
.so: _ZN5boost6python6detail11init_moduleER11PyModuleDefPFvE: symbol not found
```

#2 - 02/20/2017 04:48 PM - Natanael Copa

- Status changed from *New* to *Resolved*

- % Done changed from 0 to 100

Applied in changeset [3e6cf4c978acd421b5e1b282f98ff3c2d57374f5](https://github.com/boostorg/build/issues/163).

#3 - 02/28/2017 04:58 PM - Natanael Copa

- Status changed from *Resolved* to *Closed*

#4 - 03/09/2017 09:32 AM - Natanael Copa

- Has duplicate Bug #6615: *symbol not found in boost libraries added*