

VamPy Host - Bug #1879

Can't install vamp module using pip on python 3.5 (macOS + conda)

2019-04-08 11:41 PM - Justin Salamon

Status:	New	Start date:	2019-04-08
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

"pip install vamp" works fine in python 2.7. But in python 3.5 (inside a conda environment on macOS) it crashes with:

```
| pip install vamp (py35) 2821ms □ Mon
| Apr 8 15:07:25 2019
```

Collecting vamp

Using cached

<https://files.pythonhosted.org/packages/66/65/a54958777fa667ef881ceec18dd0b423b2ba2c77543060b21aff0e1dbcb6/vamp-1.1.0.tar.gz>

Building wheels for collected packages: vamp

Building wheel for vamp (setup.py) ... error

```
Complete output from command /Users/salamon/dev/miniconda3/envs/py35/bin/python -u -c "import setuptools, tokenize;__file__='/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-install-7pzyi14k/vamp/setup.py';f=getattr(tokenize, 'open', open)(file);code=f.read().replace('\r\n', '\n');f.close();exec(compile(code, file, 'exec'))" bdist_wheel -d /private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-wheel-og6_h_36 --python-tag cp35:
```

```
running bdist_wheel
```

```
running build
```

```
running build_py
```

```
creating build
```

```
creating build/lib.macosx-10.6-x86_64-3.5
```

```
creating build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
copying vamp/collect.py -> build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
copying vamp/__init__.py -> build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
copying vamp/frames.py -> build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
copying vamp/process.py -> build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
copying vamp/load.py -> build/lib.macosx-10.6-x86_64-3.5/vamp
```

```
running build_ext
```

```
building 'vampyhost' extension
```

```
creating build/temp.macosx-10.6-x86_64-3.5
```

```
creating build/temp.macosx-10.6-x86_64-3.5/vamp-plugin-sdk
```

```
creating build/temp.macosx-10.6-x86_64-3.5/vamp-plugin-sdk/src
```

```
creating build/temp.macosx-10.6-x86_64-3.5/vamp-plugin-sdk/src/vamp-hostsdk
```

```
creating build/temp.macosx-10.6-x86_64-3.5/native
```

```
/usr/bin/clang -Wno-unused-result -Wsign-compare -Wunreachable-code -DNDEBUG -g -fwrapv -O3 -Wall -Wstrict-prototypes
```

```
-I/Users/salamon/dev/miniconda3/envs/py35/include -arch x86_64 -I/Users/salamon/dev/miniconda3/envs/py35/include -arch x86_64
```

```
-D_USE_MATH_DEFINES=1 -lvamp-plugin-sdk
```

```
-I/Users/salamon/dev/miniconda3/envs/py35/lib/python3.5/site-packages/numpy/core/include
```

```
-I/Users/salamon/dev/miniconda3/envs/py35/include/python3.5m -c vamp-plugin-sdk/src/vamp-hostsdk/Files.cpp -o
```

```
build/temp.macosx-10.6-x86_64-3.5/vamp-plugin-sdk/src/vamp-hostsdk/Files.o
```

```
warning: include path for stdlibc++ headers not found; pass '-stdlib=libc++' on the command line to use the libc++ standard library instead [-Wstdlibcxx-not-found]
```

In file included from vamp-plugin-sdk/src/vamp-hostsdk/Files.cpp:37:

In file included from vamp-plugin-sdk/vamp-hostsdk/PluginHostAdapter.h:41:

In file included from vamp-plugin-sdk/vamp-hostsdk/Plugin.h:45:

vamp-plugin-sdk/vamp-sdk/Plugin.h:40:10: fatal error: 'string' file not found

```
#include <string>
```

```
^~~~~~
```

1 warning and 1 error generated.

error: command '/usr/bin/clang' failed with exit status 1

Failed building wheel for vamp

Running setup.py clean for vamp

Failed to build vamp

Installing collected packages: vamp

Running setup.py install for vamp ... error

Complete output from command /Users/salomon/dev/miniconda3/envs/py35/bin/python -u -c "import setuptools,

tokenize;__file__='/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-install-7pzyi14k/vamp/setup.py';f=getattr(tokenize, 'ope

kenize, 'open', open)(file);code=f.read().replace("\r\n", '\n');f.close();exec(compile(code, file, 'exec'))" install --record

/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-record-ioetr76r/install-record.txt

--single-version-externally-managed --compile:

running install

running build

running build_py

creating build

creating build/lib.macosx-10.6-x86_64-3.5

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copying vamp/collect.py -> build/lib.macosx-10.6-x86_64-3.5/vamp

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creating build/temp.macosx-10.6-x86_64-3.5/native

/usr/bin/clang -Wno-unused-result -Wsign-compare -Wunreachable-code -DNDEBUG -g -fwrapv -O3 -Wall

-Wstrict-prototypes -I/Users/salomon/dev/miniconda3/envs/py35/include -arch x86_64

-I/Users/salomon/dev/miniconda3/envs/py35/include -arch x86_64 -D_USE_MATH_DEFINES=1 -lvamp-plugin-sdk

-I/Users/salomon/dev/miniconda3/envs/py35/lib/python3.5/site-packages/numpy/core/include

-I/Users/salomon/dev/miniconda3/envs/py35/include/python3.5m -c vamp-plugin-sdk/src/vamp-hostsdk/Files.cpp -o

build/temp.macosx-10.6-x86_64-3.5/vamp-plugin-sdk/src/vamp-hostsdk/Files.o

warning: include path for stdlibc++ headers not found; pass '-stdlib=libc++' on the command line to use the libc++ standard library instead [-Wstdlibcxx-not-found]

In file included from vamp-plugin-sdk/src/vamp-hostsdk/Files.cpp:37:

In file included from vamp-plugin-sdk/vamp-hostsdk/PluginHostAdapter.h:41:

In file included from vamp-plugin-sdk/vamp-hostsdk/Plugin.h:45:

vamp-plugin-sdk/vamp-sdk/Plugin.h:40:10: fatal error: 'string' file not found

```
#include &lt;string&gt;
```

```
^~~~~~
```

1 warning and 1 error generated.

error: command '/usr/bin/clang' failed with exit status 1

```
-----  
Command "/Users/salamon/dev/miniconda3/envs/py35/bin/python -u -c "import setuptools,  
tokenize;__file__='/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-install-7pzyi14k/vamp/setup.py';f=getattr(tokenize, 'ope  
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/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-record-ioetr76r/install-record.txt  
--single-version-externally-managed --compile" failed with error code 1 in  
/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-install-7pzyi14k/vamp/
```

History

#1 - 2019-04-08 11:45 PM - Justin Salamon

pip install vamp works fine in python 2.7, but in python 3.5 (inside a conda environment on macOS) it crashes with:

```
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15:07:25 2019  
Collecting vamp  
Using cached  
https://files.pythonhosted.org/packages/66/65/a54958777fa667ef881ceec18dd0b423b2ba2c77543060b21aff0e1dbcb6/vamp-1.1.0.tar.gz  
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/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-wheel-og6_h_36 --python-tag cp35:  
running bdist_wheel  
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```
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Command "/Users/salamon/dev/miniconda3/envs/py35/bin/python -u -c "import setuptools,

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open)(__file__);code=f.read().replace("\r\n", "\n");f.close();exec(compile(code, __file__, 'exec'))" install --record
/private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-record-ioetr76r/install-record.txt --single-version-externally-managed
--compile" failed with error code 1 in /private/var/folders/j4/2cgkdym179b76zljmlm1d6yc0000gn/T/pip-install-7pzyi14k/vamp/
```

#2 - 2019-04-09 01:11 PM - Chris Cannam

Thanks for the report. It is a puzzle though, as I can neither understand nor reproduce it.

I can see that the problem appears to have to do with the compiler failing to pick up a C++ standard library include path, but I'm lost as to why this should suddenly be a problem now - the build mechanism here hasn't changed since the v1.1.0 release of the Vamp package, and the default standard library on the Mac has been libc++ for a long time now.

I notice that the log makes reference to macosx-10.6 - is that what you are actually using?? (which would be rather amazing) or is it generating a backward-compatible build by some means?

When I run setup.py here, either directly or via pip install --no-binary :all: vamp, it is the actual local version of macOS that I see reported, not a compatibility version - and the build succeeds. This is with Python 3.7 from Homebrew.

If you can give steps to reproduce this, that would be very helpful. Especially if that could be done from a baseline of a current Mac with just the system Python installed, i.e. including directions about exactly what Python you are using and how to get it.