ValueError: Unknown MS Compiler version 1900

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asked 3 years, 6 months ago
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I am trying to run some code with Python 3.5 on Windows 10 with the use of cygwin (mingw). To be precise I am using the PyDSTool module, where I call the dopri integrator. The problem is, I am having trouble with `distutils` not recognizing Microsoft Visual Studio 2015. Is there a way to avoid this (without going back to older versions of Python, Windows, Visual Studio). The full Error can be seen bellow.

```
ValueError                                Traceback (most recent call last)
<ipython-input-16-bfeb915bfd7b> in <module>()
     60 print("\n")
     61
---> 62 testODE = Dopri_ODEsystem(DSargs)
     63
     64 print('Integrating...')

C:\Anaconda3\lib\site-packages\PyDSTool\Generator\Dopri_ODEsystem.py in __init__(self, kw)
    371                 print("stages using the makeLibSource and compileLib methods.")
    372             else:
--> 373                 self.makeLib()
    374
    375     @property

C:\Anaconda3\lib\site-packages\PyDSTool\Generator\mixins.py in makeLib(self, libsources, lib
     98             self.forceLibRefresh()
     99             self.makeLibSource(include)
--> 100            self.compileLib(libsources, libdirs)
    101
    102     @property

C:\Anaconda3\lib\site-packages\PyDSTool\Generator\mixins.py in compileLib(self, libsources,
     78             precompiled libraries."""
     79
---> 80             self._builder.build(libsources, libdirs, self._compiler)
     81
     82     def forceLibRefresh(self):

C:\Anaconda3\lib\site-packages\PyDSTool\Generator\mixins.py in build(self, libsources, libd
    187                     script_args=script_args,
    188                     ext_modules=[extmod],
--> 189                     py_modules=[self.modname])
```

python visual-studio cygwin mingw distutils

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asked Dec 7 '15 at 13:55
blaz
1,472 ● 3 ● 19 ● 41

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6 Answers

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I made the following changes and it worked for me with the following configurations.

- OS : Win 7 Prof. SP1 64 bit
- CPython 3.6 _ 64 Bit
- Mingw 64 (x86_64-7.1.0-posix-seh-rt_v5-rev0)
- Cython 0.25.2

I did the following

1. Add mingw in the PATH variable (`C:\mingw-w64\x86_64-7.1.0-posix-seh-rt_v5-rev0\mingw64\bin` for me)
2. Test by opening command line and command `gcc` works (I have no other compilers)
3. Create `distutils.cfg` in `C:\Python36\Lib\distutils`
4. Add lines in that file:

```
[build]
compiler = mingw32
```

5. Manually applying this patch
6. Manually downloading the file `vcruntime140.dll` and putting it in `C:\Python36\libs`

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edited May 15 '17 at 4:36
Nathan Tuggy
2,204 ● 9 ● 25 ● 35

answered May 15 '17 at 4:12
Indrajit Kanjilal
133 ● 1 ● 7

Evrything worked fine this way till I found that MingW w64 defines "hypot = hypot" and in pyconfig.h , it is defined as "hypot = _hypot". Hence generating compiler errors in some cases. The fix is: 1) Either temporarily edit pyconfig.h with making the line "#define hypot _hypot" to "#define hypot hypot", and then run the cython process. 2) In setup.py, add a new param to "ext = Extension(...,"...,extra_compile_args=['...','-D_hypot=hypot',...])"... This problem specifically happens when there is a C++ compile with the Cython code, it appears. – Indrajit Kanjilal Jun 28 '17 at 11:38

I can confirm that this works on Windows 10 with Anaconda 3 – not_this_again Aug 7 '17 at 23:55

2 If you cant make it work give compiler=mingw32.exe a try also - it worked for me, while compiler=mingw32 didn't. – plunntic iam Nov 7 '17 at 21:34

PS: If you are using anaconda, just copy `vcruntime140.dll` from `D:\Anaconda3\Library\bin\vcruntime140.dll` to `somewhere\Python3.6\libs` – Mithril Jan 16 '18 at 3:44

Hi, I try the same, but when I do in pyrfc: python setup.py install I get this error: error Microsoft Visual C 14.0 is required – Marko Zadravec Apr 20 '18 at 10:22

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Distutils and Numpy/Distutils currently do not have support for Visual Studio 2015, Visual C++ 14. Following tips shown from the Python bug report, I was able to patch the necessary files and successfully build extension using a new install of Python 3.5 from Anaconda and Mingw64 with GCC 5.2.0 running within MSYS2 on Windows 7. I do not have Visual Studio installed. The solution was to patch one distutils file and two numpy/distutils files (if this applies). These patches have been submitted for inclusion in future revisions.

You can apply the patches yourself for a quick fix:

- distutils patch
- numpy/distutils patch

UPDATE

Please note that while the patches above worked for me it was not accepted for inclusion in upstream. The changes that came with VS 2015 are more complex than I appreciated.

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edited Jan 6 '16 at 16:40

answered Dec 23 '15 at 1:03
tharen
973 ● 8 ● 19

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7

If anyone still has this problem,i just ran into it while installing yowsup and python-axolotl, this is what i did to solve it:

1- Apply the patch from Tharen into the python cygwincompiler.py file (located in your python installation folder) https://bugs.python.org/file40608/patch.diff

2-With mingw, install pexports, open a terminal in administrator mode and type:

```
mingw-get install pexports
```

2-Go to the python install folder, in my case it was C:\Program Files (x86)\Python36-32

still in the same terminal we used to install pexports, affter navigating to the python install folder run the following:

```
pexports vcruntime140.dll >libs\vcruntime140.def
dlltool -dllname vcruntime140.dll --def libs\vcruntime140.def --output-lib libs\libvcruntime14
```

Then go back to the folder where you were installing the library, or whatever you were doing before, it should work now.

btw, dont forget to add

```
[build]
compiler = mingw32
```

in the distutils file.

Source: this own post and https://bugs.python.org/issue25251

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answered May 30 '17 at 7:33
Bryan Hernandez
71 ● 1 ● 4

`pexports` is `gendef` in mingw-w64-i686-tools or mingw-w64-x86_64-tools under msys2 . – Mithril Jan 16 '18 at 3:53

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I was running on the same problem and figured out that the issue was with the mingw compiler. I tried the patches suggested by @tharen but it didn't work for me.

It seems that cygwin's favourite compiler for windows is the visual c++ so I downloaded just the visual c++ build tools from http://landinghub.visualstudio.com/visual-cpp-build-tools and then it worked fine.

Note that you will need to uninstall mingw and all references to it that you included in your project. In particular I had to delete a distutils.cfg file that I had created which had the following code pointing to mingw

```
[build]
compiler = mingw32
```

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answered Nov 2 '16 at 11:28
kosnik
1,196 ● 4 ● 16

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1

Details in link helped me resolve this like a charm.

Just commented `get_msvcr()` in cygwincompiler.py.

(remember to comment the `else` also)

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edited Jan 18 '18 at 2:52
Stephen Rauch
31.7k ● 15 ● 40 ● 65

answered Jan 18 '18 at 2:25
harikrishna
131 ● 1 ● 5

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1

I just made he following changes and it worked like a charm!

Edit file distutils.cfg present in locations:

1. C:\Users\\AppData\Local\Continuum\Anaconda3\Lib\distutils\
2. C:\Users\\AppData\Local\Continuum\Anaconda3\pkgs\libpython-2.0-py36_0\Lib\distutils

Modify content of distutils.cfg to :

```
[build]
compiler=g++

[build_ext]
compiler=g++
```

P.S. Probably changing only in 2nd location should also do.

P.P.S Make sure gcc is installed and is in PATH. For me , TDM-GCC-64 was installed

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edited May 3 '17 at 12:07

answered May 3 '17 at 11:32
rahulkmishra
38 ● 6

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