

Create a Standalone Application using cx_Freeze

井民全, Jing, mqjing@gmail.com

File: test.py

```
import numpy as np

a = [1, 2, 3]
arr = np.asarray(a)
print('arr = ', arr)
```

Install cx_Freeze

git clone https://github.com/anthony-tuininga/cx_Freeze.git

build the tool

python setup.py build

Start to package your python application

File: setup.py

```
import sys
from cx_Freeze import setup, Executable

# Dependencies are automatically detected, but it might need fine tuning.
#build_exe_options = {"packages": ["os"], "excludes": ["tkinter"]}
build_exe_options = {"packages": ["os", "numpy"], "excludes": ["tkinter"]}
```

```
# GUI applications require a different base on Windows (the default is for a  
# console application).
```

```
base = None
```

```
if sys.platform == "win32":
```

```
    #base = "Win32GUI"
```

```
    base = "Console"
```

```
setup( name = "guifoo",
```

```
       version = "0.1",
```

```
       description = "My GUI application!",
```

```
       options = {"build_exe": build_exe_options},
```

```
       executables = [Executable("test.py", base=base)])
```

```
python setup.py build
```

```
python setup.py bdist_msi
```

Run

```
test.exe
```

```
(base) C:\Users\jing\test\cython_test\numpy_test\build\exe.win-amd64-3.7>test.exe  
arr = [1 2 3]
```

Error: Intel MKL FATAL ERROR: Cannot load mkl_intel_thread.dll. ([ref](#))

<solution>

Copy the mkl related dlls next to your exe file

Location: C:\Users\jing\Anaconda3\Library\bin

mkl_core.dll

mkl_def.dll

mkl_intel_thread.dll

Issue

only run in Anaconda prompt

```
C:\Users\jing\test\cython_test\numpy_test\build\exe.win-amd64-3.7>test
Intel MKL FATAL ERROR: Cannot load mkl_intel_thread.dll.

C:\Users\jing\test\cython_test\numpy_test\build\exe.win-amd64-3.7>test
Intel MKL FATAL ERROR: Cannot load mkl_intel_thread.dll.

C:\Users\jing\test\cython_test\numpy_test\build\exe.win-amd64-3.7>test
Intel MKL FATAL ERROR: Cannot load mkl_intel_thread.dll.

C:\Users\jing\test\cython_test\numpy_test\build\exe.win-amd64-3.7>_
```

Reference

<https://cx-freeze.readthedocs.io/en/latest/distutils.html#distutils>