Environment

OS: Windows 7 Ultimate x64 Compiler: Visual Studio 2010

Boost: 1.57.0 (installation path is "D:\libs\boost")

CMake: 3.2.1 Python3: 3.3.5 NumPy: 1.9.1 SciPy: 0.14.0 PyQt4: 4.10.3 Pyparsing: 2.0.1 python-dateutil: 2.2

six: 1.5.2 Git: 1.9.5

Downloading

Boost: http://sourceforge.net/projects/boost/files/boost/1.57.0/

CMake: http://www.cmake.org/files/v3.1/cmake-3.1.3-win32-x86.exe
Python3: http://www.python.org/ftp/python/3.3.5/python-3.3.5.msi

NumPy: http://sourceforge.net/projects/numpy/files/NumPy/1.9.1/numpy-1.9.1-

win32-superpack-python3.3.exe/download

SciPy: http://sourceforge.net/projects/scipy/files/scipy/0.14.0/scipy-0.14.0-

win32-superpack-python3.3.exe/download

PyQt4: http://sourceforge.net/projects/pyqt/files/PyQt4/PyQt-4.10.3/PyQt4-

4.10.3-gpl-Py3.3-Qt4.8.5-x32.exe/download

Pyparsing: <a href="http://sourceforge.net/projects/pyparsing/files/pyparsing/pyparsin

2.0.1/pyparsing-2.0.1.win32-py3.3.exe/download

setuptools: https://pypi.python.org/pypi/setuptools#downloads python-dateutil: https://pypi.python.org/pypi/python-dateutil/2.2

six: https://pypi.python.org/pypi/six/1.5.2

Matplotlib:

http://sourceforge.net/projects/matplotlib/files/matplotlib/matplotlib-

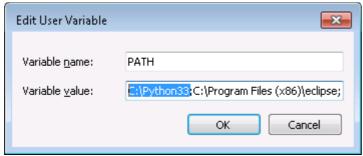
1.3.1/matplotlib-1.3.1.win32-py3.3.exe/download

Git: https://github.com/msysgit/msysgit/releases/download/Git-1.9.5-

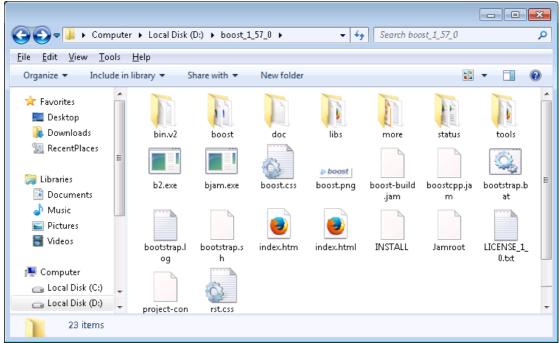
preview20141217/Git-1.9.5-preview20141217.exe

Compiling Boost

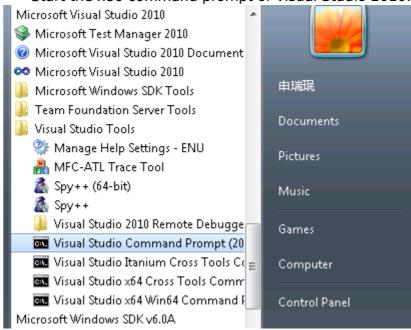
 Installing Python 3, and make sure its path is included in the PATH environment variable:



Extracting source code files of Boost:



Start the x86 command prompt of Visual Studio 2010:



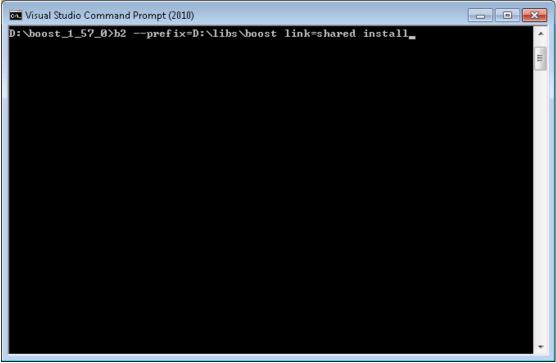
Compiling Boost (both static and shared link):

d: cd D:\boost_1_57_0 bootstrap.bat

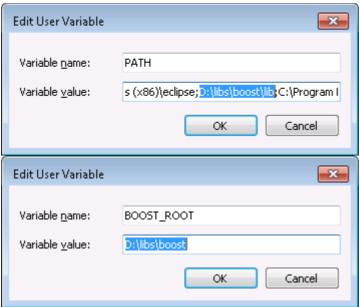
b2 --prefix=D:\libs\boost install

```
■ Visual Studio Command Prompt (2010)
C:\Program Files (x86)\Microsoft Visual Studio 10.0\UC>d:
D: \>cd boost_1_57_0
D:\boost_1_57_0>bootstrap.bat
Building Boost.Build engine
Bootstrapping is done. To build, run:
    . \b2
To adjust configuration, edit 'project-config.jam'.
Further information:
    - Command line help:
    .\b2 --help
    - Getting started guide:
    http://boost.org/more/getting_started/windows.html
    - Boost.Build documentation:
    http://www.boost.org/boost-build2/doc/html/index.html
D:\boost_1_57_0>b2 --prefix=D:\libs\boost <u>i</u>nstall
```

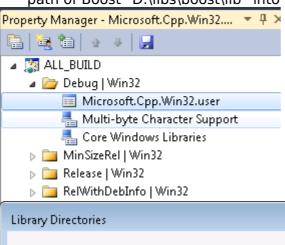
b2 --prefix=D:\libs\boost link=shared install

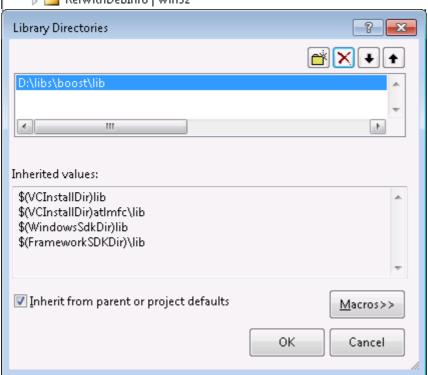


 Adding the installation path of Boost "D:\libs\boost" into both the PATH and BOOST_ROOT environment variables:



 Open the property manager of Visual Studio 2010, and adding the library path of Boost "D:\libs\boost\lib" into library directories:





Configuring OTL

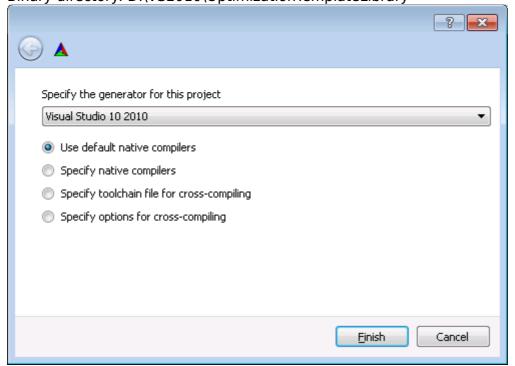
Clone the repository:

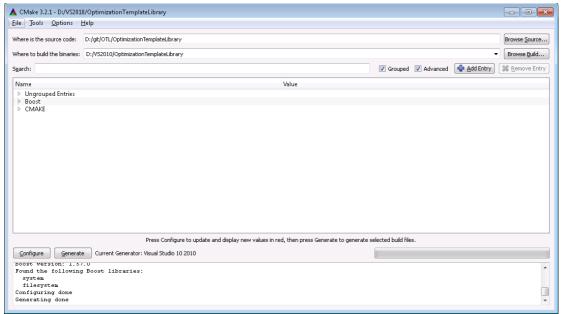
Clone URL: https://github.com/O-T-L/OTL.git

Destination: D:\git\OTL



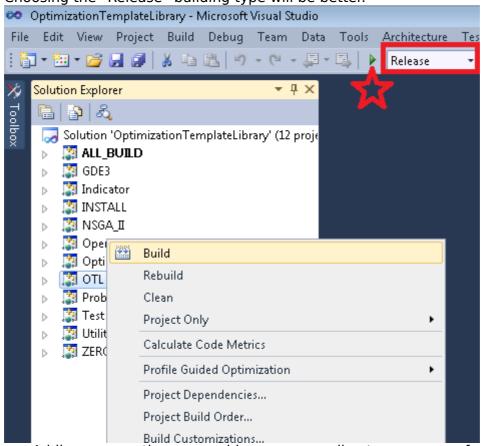
Generating project files of Visual Studio 2010
 Source code directory: D:\git\OTL\OptimizationTemplateLibrary
 Binary directory: D:\VS2010\OptimizationTemplateLibrary



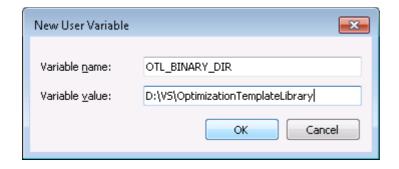


• Building the OTL project:

Choosing the "Release" building type will be better.



 Adding the binary directory of OTL "D:\VS2010\OptimizationTemplateLibrary" into the OTL_BINARY_DIR environment variable (optional):



Configuring PyOTL

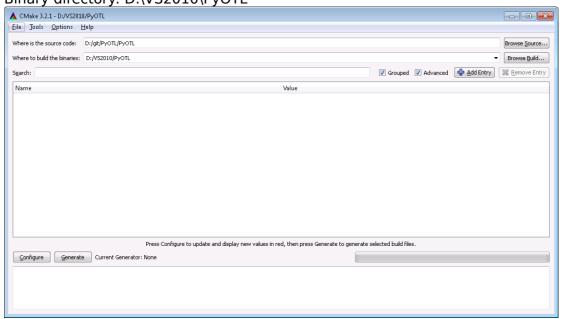
Clone the repository:

Clone URL: https://github.com/O-T-L/PyOTL.git

Destination: D:\git\PyOTL

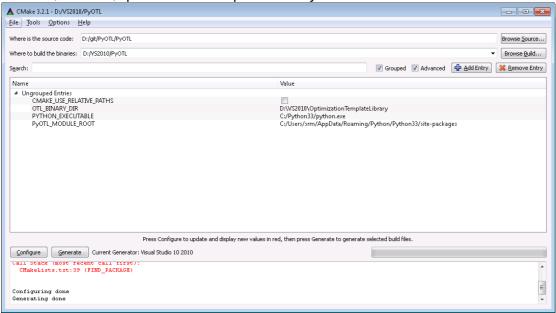


Generating project files of Visual Studio 2010
 Source code directory: D:\git\PyOTL\PyOTL
 Binary directory: D:\VS2010\PyOTL



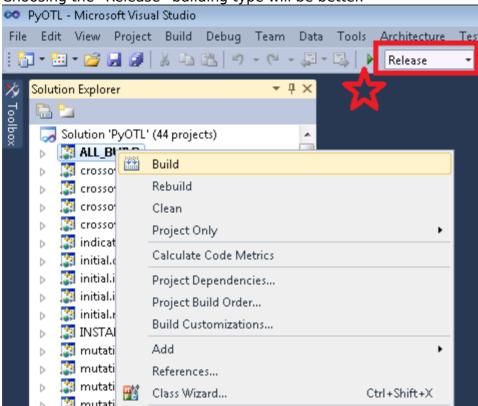
If the OTL BINARY DIR environment variable is not set, then set the OTL BINARY DIR **CMake** variable into

"D:\VS2010\OptimizationTemplateLibrary":



Compiling all projects of PyOTL:

Choosing the "Release" building type will be better.



If your memory is not enough, you can disable some optimization algorithms in "D:\git\PyOTL\PyOTL\Include\pyotl\optimizer\Switch.h":

Configuring PyOptimization

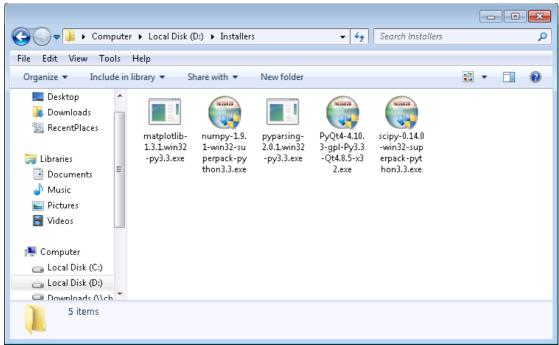
Clone the repository:

Clone URL: https://github.com/O-T-L/PyOptimization.git

Destination: D:\git\PyOptimization



• Installing the Python libraries depended by PyOptimization:

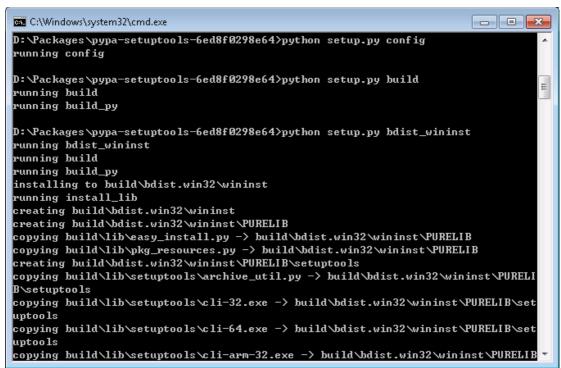


Manually compiling the Python libraries depended by PyOptimization:

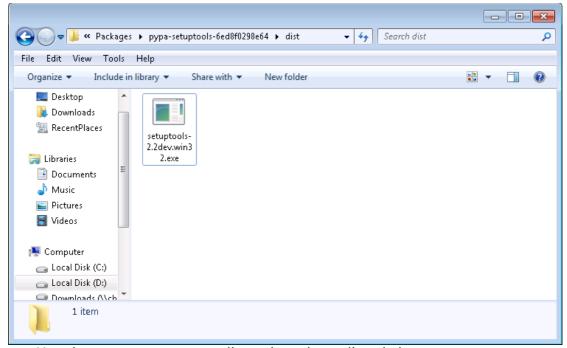


Compiling setuptools:

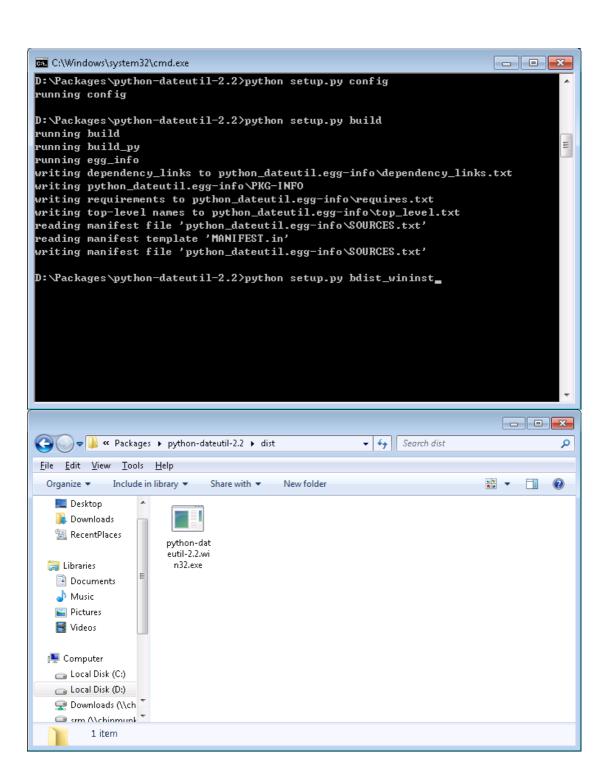
python setup.py config python setup.py build python setup.py bdist_wininst

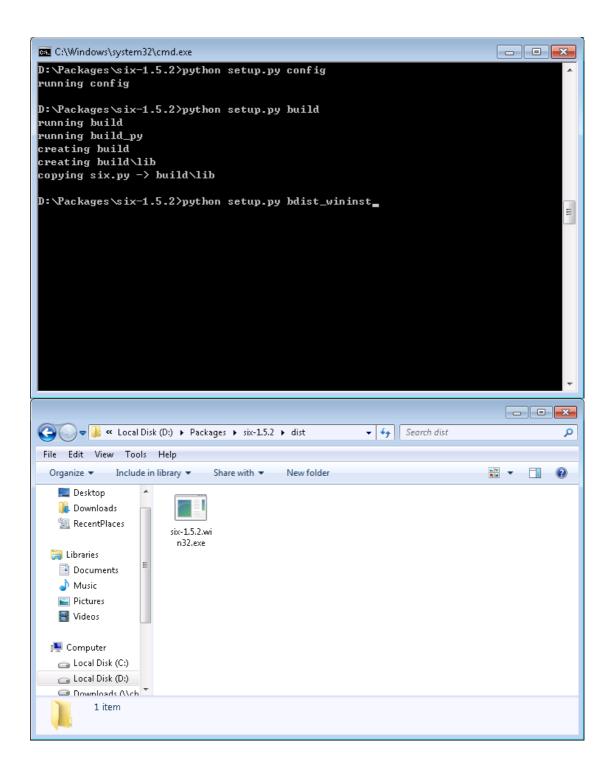


Run the installer as administrator.



• Use the same way to compile python-dateutil and six:



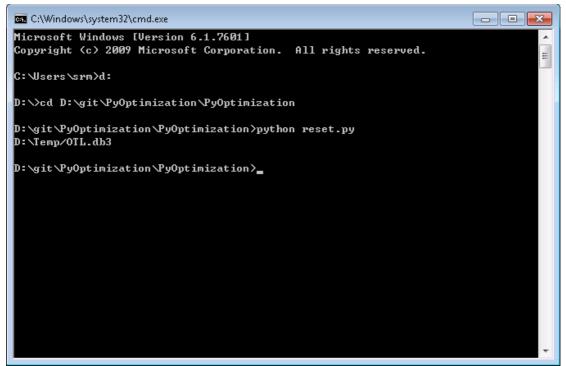


Using PyOptimization

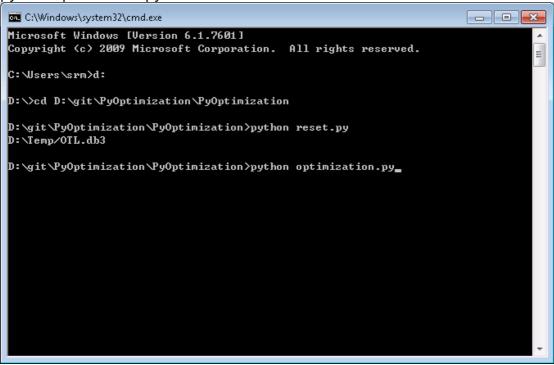
Creating an empty database:

d:

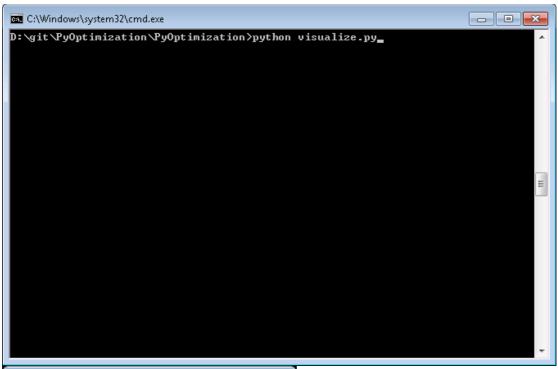
cd D:\git\PyOptimization\PyOptimization python reset.py

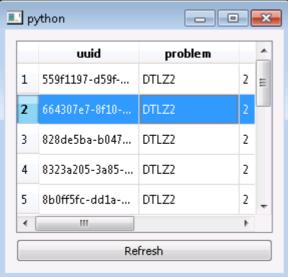


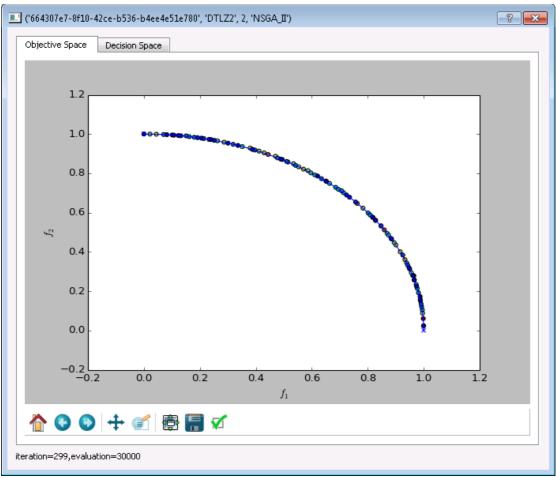
 Running optimization algorithms: python optimization.py



• Visualizing the results: python visualize.py







• Evaluating the results:

