

DELFT3D Version 9180

1. Downloading the Source Code
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3. Compiling the Source Code
4. Test the Example Case

**This tutorial was made in 2019 May 24*

OS: Windows 10 Pro

Email: mnadibhusana@pukyong.ac.kr

Downloading the Delft3D Source Code

1. Do the registration

<https://oss.deltares.nl/web/delft3d/get-started>

Make sure to remember your screen name and password

2. Download and Install Tortoise SVN

<https://tortoisesvn.net/downloads.html>

3. Open this link and login using you screen name and password

<https://svn.oss.deltares.nl/repos/delft3d/tags/delft3dfm/9180/>

This link will directed you to the Delft3D source code version 9180

4. Create a folder for saving the source code

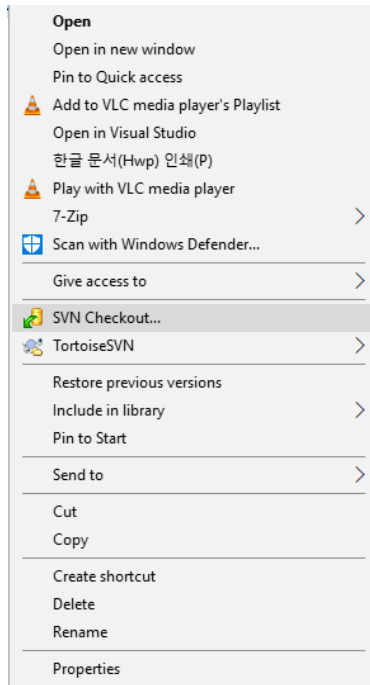
D://delft3d_9180

Avoid make a directory (folder name) with space

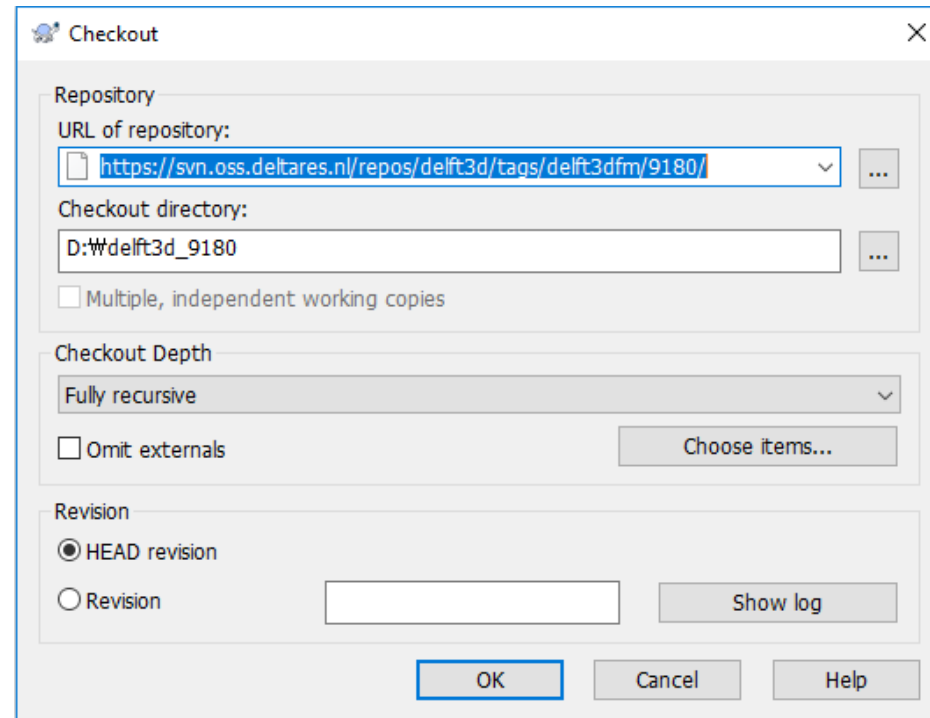
I created a folder in Drive **D** and I gave the folder name as **delft3d_9180**

Downloading the Delft3D Source Code

5. Right click on the folder and select the SVN Checkout...



6. Paste the link in the **URL of repository:** and the **Checkout directory:** is the folder just you make. Then click OK



7. The source code will automatically downloaded into the selected folder

PREREQUISITES - REQUIRED SOFTWARE

Microsoft Visual Studio (MVS) 2015 Professional Edition
Intel Parallel Studio 2016 update 4
Python 2.7.14

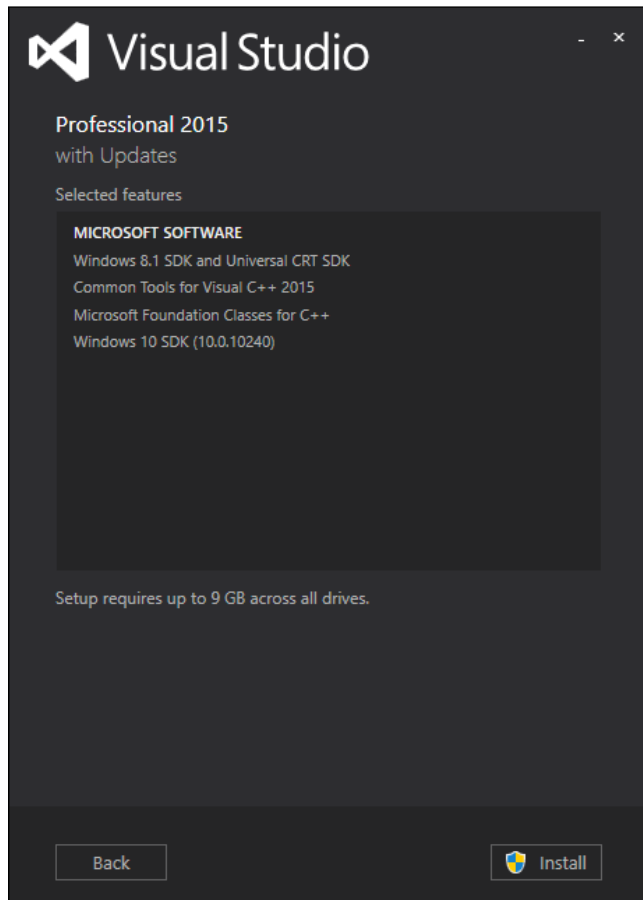
These software is needed for compiling the Delft3D source code

Microsoft Visual Studio (MVS) 2015 Professional Edition

1. Download the MVS 2015 Professional Edition (.iso file):

<https://stackoverflow.com/questions/44290672/how-to-download-visual-studio-community-edition-2015-not-2017>

2. Select this following module/feature of MVS to be installed on your computer and then click install



Intel Parallel Studio XE 2016 update 4

1. Go to the Intel Parallel Studio Website and register

<https://software.intel.com/en-us/parallel-studio-xe>

2. Click choose to download

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4. Learn how to [get started](#).

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- Intel® VTune™ Amplifier
- Intel® Advisor
- Intel® Inspector
- Intel® MPI Library
- Intel® Trace Analyzer and Collector
- Intel® Cluster Checker
- Intel® Distribution for Python*



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5. Select Profession as student and select the development Language C/C++ and Fortran. Then click Submit

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Student

Development Language (select all that apply) *

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C#

Common Lisp

Eiffel

Fortran


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5. Choose a Version is 2016 Update 4. Click the check box and download the Full Package



Windows*

2019



Your registration for the Intel® Parallel Studio XE Cluster Edition for Windows* has been approved. You will receive an email with download instructions for future reference.

Serial number : SKSL-24GWEVW

- Save this serial number. You may need it to activate your product in the installer.
- For your reference, you will receive an email that includes your serial number and download instructions.

Choose a Version

2016 Update 4

Build date:30 Aug 2016

[Release Notes](#) | [ReadMe](#) | [Installation Guide](#)

Choose a Download Option

☒ I Consent to the collection of the Information and would like to download the software.

A newer version is available. Users should upgrade to the latest version of Intel® Parallel Studio XE Cluster Edition for Windows* (all tools). This unsupported version does not include the latest functional and security updates and is targeted to be removed after the date provided. All versions are provided as is. Intel recommends that users of this archived product uninstall and discontinue use as soon as possible and upgrade to the latest version.

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Questions & Answers

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6. Once it downloaded, just double click the installer and install the program.
Install all the packages



Python 2.7.14

1. Open this link to download the Python version 2.7.14
<https://www.python.org/downloads/release/python-2714/>

2. Select the Windows x86 MSI
Installer

3. Then Install

Python Software Foundation (US)

https://www.python.org/downloads/release/python-2714/

...

☆

Python 2.7.14

Release Date: Sept. 16, 2017

Python 2.7.14 is the latest bug fix release in the Python 2.7.x series.

[Full Changelog](#)

Files

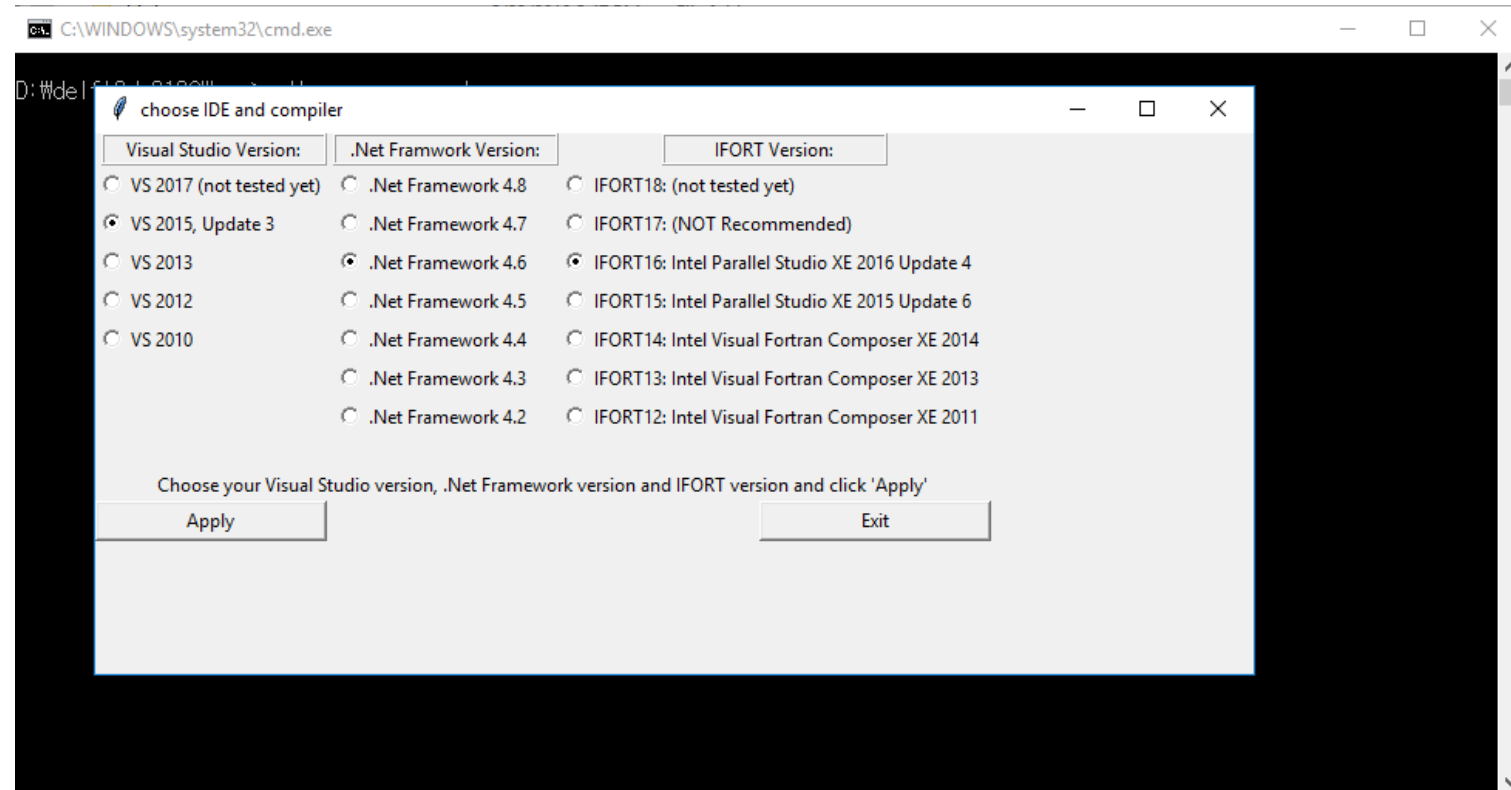
Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		cee2e4b33ad3750da77b2e85f2f8b724	17176758	SIG
XZ compressed source tarball	Source release		1f6db41ad91d9eb0a6f0c769b8613c5b	12576112	SIG
Mac OS X 32-bit i386/PPC installer	Mac OS X	for Mac OS X 10.5 and later	67cf2aed974cd04fe96ddac29758b637	24468530	SIG
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	2c959c6ba4ffed23bd102c4e92095fa9	22604859	SIG
Windows debug information files	Windows		85775bb18b460be79a25c0952b8121f9	24834214	SIG
Windows debug information files for 64-bit binaries	Windows		cf73b28cb8b76ed2374f0b2c710d202a	25620646	SIG
Windows help file	Windows		0f742a733778565ab7ace9aea53c1709	6251855	SIG
Windows x86-64 MSI installer	Windows	for AMD64/EM64T/x64	370014d73c3059f610c27365def62058	20168704	SIG
Windows x86 MSI installer	Windows		fff688dc4968ec80bbb0eedf45de82db	19238912	SIG

Compiling the Source Code

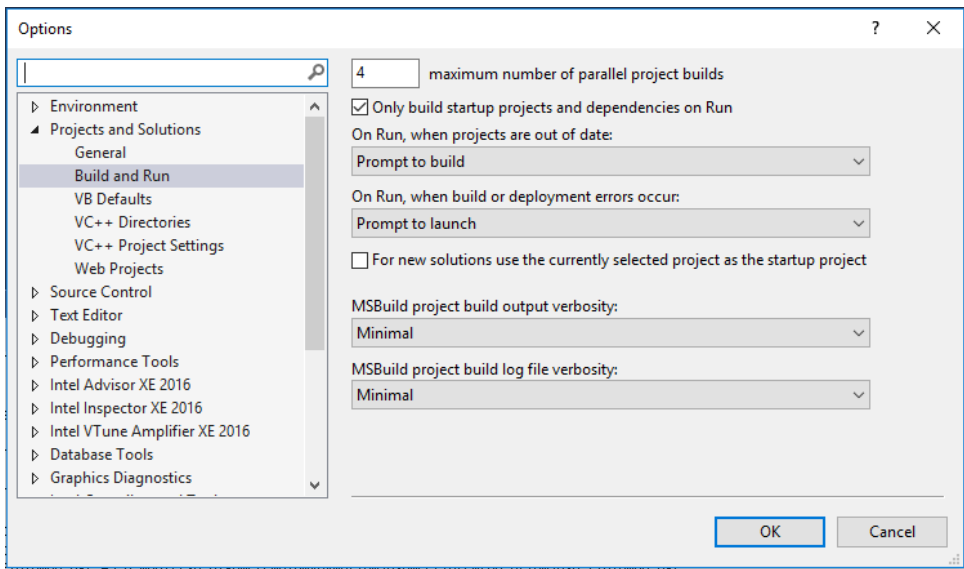
1. Go to the directory:
D://delft3d_9180/src/
And double click the file “prepare_sln.cmd”

2. The command prom window will appear and
please following this setting.
Click apply

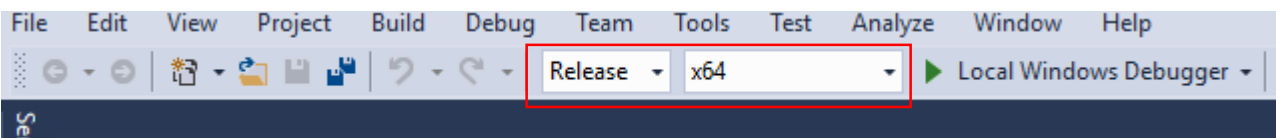
3. This process will create Microsoft Visual Studio
file: “delft3d_open.sln”
Double click on that file to open it in the Microsoft
Visual Studio 2015



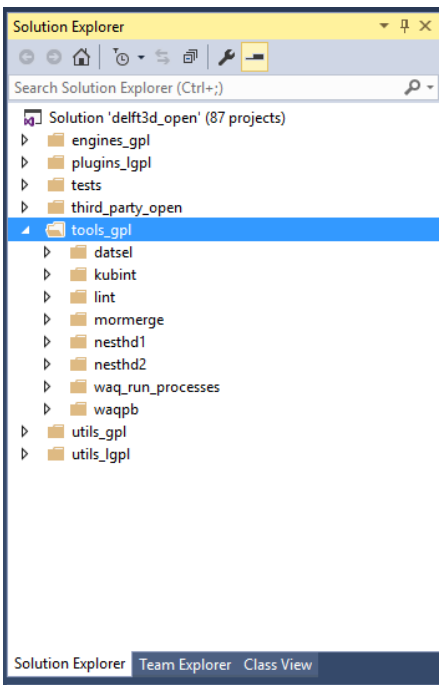
4. In the Visual Studio 2015, Tools -> Options -> Projects and Solutions -> Build and Run, set the "maximum number of parallel project builds" to 4



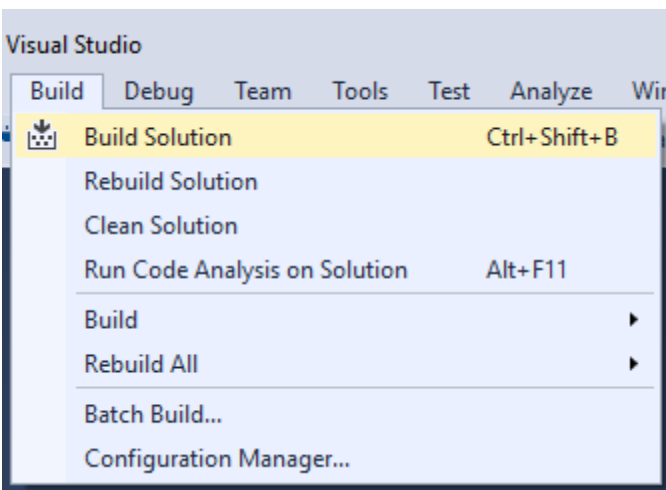
5. Set the Solutions Configurations as Release and set the Solution Platforms as x64

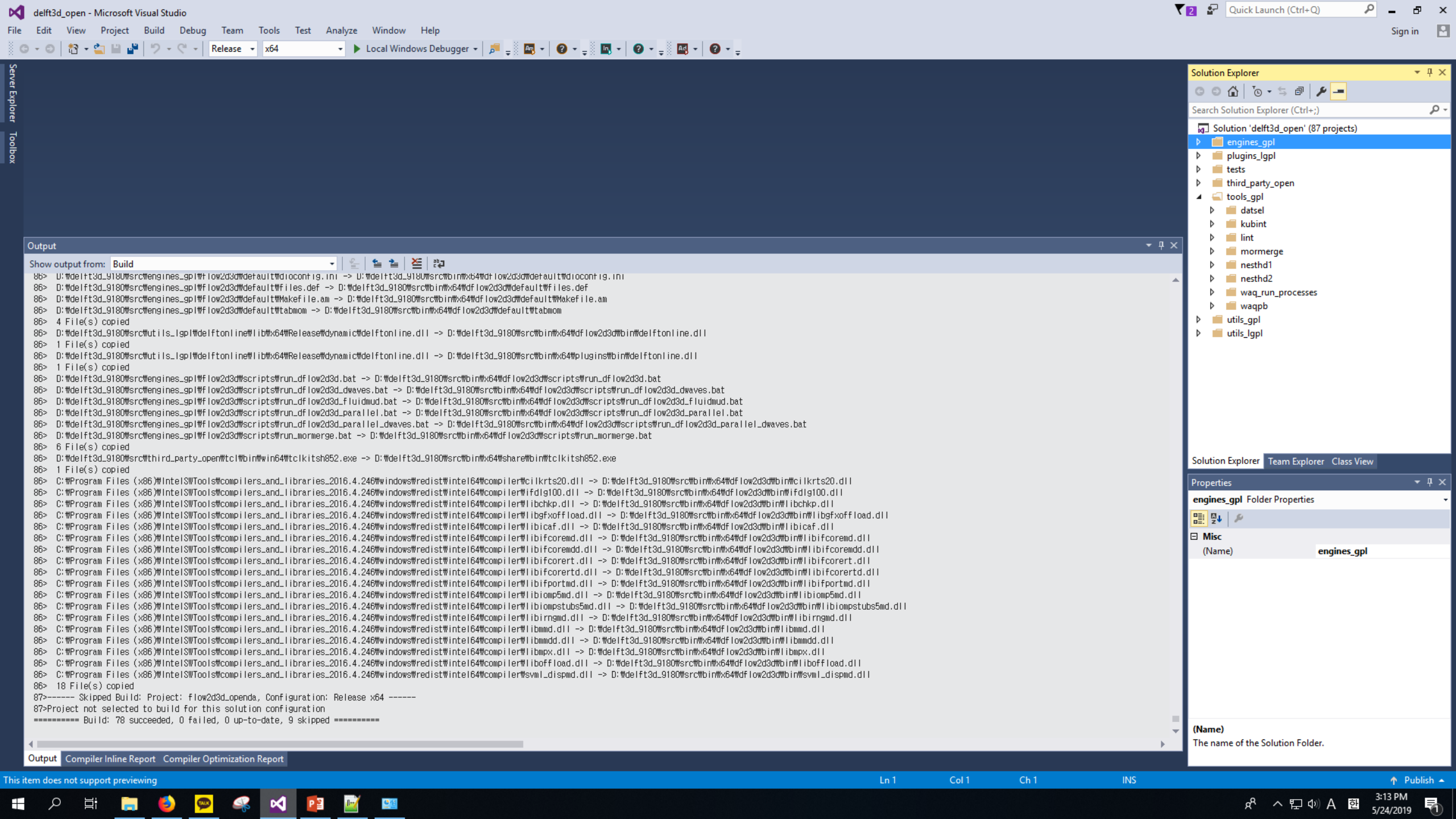


6. On the solution Explorer window, delete the "vs" folder under "tool_gpl" folder. In this picture I already deleted the "vs" folder.



7. And build the solution





Test the Example Case

Go to the Examples folder and then test all example case by double click the “run.bat” file inside of each folder (01_standard – 12_dflowfm)

