

# CFDSupport推荐的开源工具

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cfdsupport是最早提供windows版本OpenFOAM的网站，是直接将OF编译成exe的可执行程序，非类似cgywin/WSL之类。

该公司在捷克，一直在做系统集成，与simflow类似，有兴趣可访问官方网站：

[www.cfdsupport.com](http://www.cfdsupport.com)

以下是cfdsupport的邮件，推荐了一些开源的工具，也都是笔者长期以来使用的。开源软件主要作用还是用来学习，特别是在没有思路的时候可以参考，做项目中也可以适当使用，不太推荐开发工业软件使用。

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To make your CAE projects succesful, it is a good idea to take a look what is available. For this reason, we have created a list of free open-source engineering software, which fits the idea of completely open-source workflow.

Here is the list:

CAD, geometry operations,

preprocessing:

SALOME

<http://www.salome-platform.org>

Free-CAD

<https://www.freecadweb.org/>

Blender

<http://www.blender.org/>

MeshLab

<https://www.meshlab.net/>

Mesh:

CFmesh

<http://www.c-fields.com/cfmesh>

ENGRID

<https://github.com/enGits/engrid/wiki>

GMSH

<http://www.geuz.org/gmsh/>

Triangle

<http://www.cs.cmu.edu/~quake/triangle.html>

Tetgen

<http://wias-berlin.de/software/tetgen/>

Netgen

<https://sourceforge.net/projects/netgen-mesher/>

CFD

OpenFOAM

<http://www.openfoam.org/>

OpenFOAM

<http://www.openfoam.com/>

OpenFOAM for Windows

native Windows compilation from CFDSUPPORT

OpenFOAM in Box

native Linux compilation from CFDSUPPORT

SU2

<https://su2code.github.io/>

FEA

Calculix

<http://www.calculix.de/>

Code\_Aster

<https://www.code-aster.org>

Postprocessing:

ParaView

<http://www.paraview.org/>

Gnuplot

<http://www.gnuplot.info/>

Scripting:

Bash

[https://en.wikipedia.org/wiki/Bash\\_\(Unix\\_shell\)](https://en.wikipedia.org/wiki/Bash_(Unix_shell))

Python - [https://en.wikipedia.org/wiki/Python\\_\(programming\\_language\)](https://en.wikipedia.org/wiki/Python_(programming_language))

Unfortunately, many open-source codes suffer from lack of documentation and support.

Each software has its strengths and weaknesses. A usage of any of them depends on the particular project needs.

Good luck with your projects!

Team CFDSUPPORT

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