

FreeFem++ download information

(FreeFem++ version 3.12-0)

Current version of FreeFem++ can be downloaded from freeFEM.org site

<http://www.freefem.org/ff++/index.htm>

How to install :

Windows(98,NT,2000,XP)

- Access <http://www.freefem.org/>
- Click “freeFEM++” and move to <http://www.freefem.org/ff++/index.htm>
- Move to “Quick start” column and click “this EXE” at “Windows “ position. Save “FreeFem++3.12.exe” in your preferred directory (for example desktop).
- Expand it by click and you can see the folder , C:\Program Files\FreeFem++.
- You can find FreeFem++ in program list and also find a icon  in your desktop.
- Executable FreeFem++.exe is in FreeFem++ folder.
- You can also find example codes in the separate folders in the same folder.
- Details, read README and README.windows

MacOS X Universal (10.3 or +)

- Move to “Quick start” column and click “[Universal \(Intel, G3\)](#),” at “Mac OS X “ position. Save “FreeFem++v3.12-Universal-MacOsX.gz” into your home directory.
- Expand it and you can see the folder \$HOME/FreeFem++v3.12-Universal-MacOsX
- Move to the directory of “FreeFem++v3.12-Universal-MacOsX” and type “sudo ./Install-MacOS.command” and execute this with root passwd. (use this script, otherwise, related tools such as ffmedit are not installed.)
- Then, executables are installed in /Applications/FreeFem++.app
- You can find example codes in several \$HOME/FreeFem++v3.12-Universal-MacOsX /examplesXXX folders.
- In your home directory of \$HOME/FreeFem++v3.12-Universal-MacOsX/examples++/, type “FreeFem++ aaa-adp.edp”. If you can see colored graphic results (circle) in your screen, it is all right.

- If your OS is Snow Leopard, you had better choose FreeFem++v3.12-snow-leopard_MacOsX.tgz in “Full List Download” column. I am not sure currently it works better. Sorry.

Unix (Linux,FreeBSD, ...)

- Move to “Quick start” column and click “this source archive” at “Unix “ position. Save “freefem++3.12.tar.gz” into your home directory.
- Because current version has no pre-compiled execute binary, you must make it from source files. Please refer to README instructions included.

- How to execute :

Executable: FreeFem++.exe

FreeFem++ code file: extension is .edp

- 1) Click FreeFem++ code icon, XXX.edp. FreeFem++ starts automatically.
- 2) Click FreeFem++ icon  , then specify FreeFem++ file.
- 3) At your terminal (command prompt etc.),
type % freefem++ XXXX.edp

If you need no plot option, use FreeFem++nw.exe.

- FreeFem++ GUI : FreeFem++-cs:

If you prefer GUI base execution, access

<http://www.ann.jussieu.fr/~lehyaric/ffcs/index.htm>

and download executable of your OS. Follow the instruction and install in your system.

It is easier to develop your FreeFem++ code because of modification and execution can be done quickly,

- Manual

User guide of FreeFem++ is in FreeFem++ manual, freefem++doc.pdf. You can get a tutorial and can see a wide variety of applications in it.

Pre/post information

Preprocessor

FreeFem++ supports Gmsh mesh file .msh.

Gmsh's site is <http://geuz.org/gmsh/>.

“Bamg” and ” Tetgen” mesh generator are included in FreeFem++.

Tetgen: <http://tetgen.berlios.de/>

Postprocessor

FreeFem++ plot command use OpenGL with glut and X11R6.

Post processor “ffmedit” is included in FreeFem++ folder.

Also you can get it from <http://www.ann.jussieu.fr/~frey/software.html>

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