FreeFem++ download information

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++3.8.exe” in your preferred directory (for example desktop).
- Expand it by click and you can see the forder , C:¥Program Files¥FreeFem++.
- You can find FreeFem++ in program list and alos find a icon  in your desktop.
- Executable FreeFem++.exe is in FreeFem++ forder.
- You can also find example codes in the separate forders in the same forder.
- 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++v3.8-Universal-MacOsX.gz” into your home directory (for example /home/oosaka).
- Expand it and you can see the forder $HOME/FreeFem++v3.8-Universal-MacOsX
- Move to the directory of “FreeFem++v3.8-Universal-MacOsX” and execute “sudo ./install.MacOS”.command with root passwd if necessary.
- Then, executables are installed in /Applications/FreeFem++.app
- You can find example codes in several $HOME/ FreeFem++v3.8-Universal-MacOsX /examplesXXX forders.
- In your home directory of $HOME/FreeFem++v3.8-Universal-MacOsX/examples++/, type “FreeFem++ aaa-adp.edp”. If you can see colored graphic results (circle) in your screen, it is all right.

Unix

Linux, FreeBSD, NetBSD, Solaris 10, ...

- Move downward to “Full List of Downloads” column
- Click “freefem++-v3.6-ubuntu.tar.gz “ and download it into the root directory “/”.
- Click “freefem++-v3.2-usr-lib.tar.gz” and download it into the root directroy “/”
- If you want to get example codes, move to “Quick start” column upward and click “this sources archive” at Unix position. Save “freefem++3.8.tar.gz” in your home directory (for example /home/oosaka).
- Make sure you are ‘root’, and move to “/”.
- Expand “freefem++-v3.6-ubuntu.tar.gz “ by the command of “tar xzvf freefem++-v3.6-ubuntu.tar.gz “. Then, executables are installed in /usr/local/bin.
- Expand “freefem++-v3.6-usr-lib.tar.gz “ by the command of “tar xzvf freefem++-v3.6-usr-lib.tar.gz“. Then, libraries are installed in /usr/lib.
- Expand “freefem++3.8.tar.gz” by the command of “tar xzvf freefem++3.8.tar.gz”.
- You can find example codes in several $HOME/freefem++-3.8/examplesXXX forders.
- Make sure your path conatins /usr/local/bin.
- Check you can find libglut.so.3 in /usr/lib. If you can’t find it and another library, for example, libglut.so.3.8.0, type “link libglut.so.3 libglut.so.3.8.0” and make sure libglut.so.3.8.0 is linked to libglut.so. If you can’t find glut library, type “yum install libglut.so.3” and install the library.
- In your home directory of $HOME/freefem++3.8/examples++/, type “FreeFem++ aaa-adp.edp”. If you can see colored graphic results (circle) in your screen, it is all right.
- If you want to get a latest version or you have another ubuntu linux, compile source program in “freefem++3.8.tar.gz” directly.

□ 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++ fille.

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, acess
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 OpneGL with glut and X11R6.
Post processor "ffmedit" is included in FreeFem++ forder.
Also you can get it from http://www.ann.jussieu.fr/~frey/software.html
gnuplot is from http://www.gnuplot.info/