

# githubAccess\_public

# **Description:**

This routine describes how to setup a github account and pull repositories of the CFDEMproject. After setting some environment variables LIGGGHTS and CFDEMcoupling can be compiled

### **Procedure:**

Basically the following steps have to be performed:

- git clone the desired repository
- update your repositories by git pull
- set environment variables
- compile LIGGGHTS and CFDEMcoupling
- run your own cases

# git clone the desired repository:

If not already done, open a terminal and create a directory for LIGGGHTS in \$HOME:

```
cd
mkdir LIGGGHTS
cd LIGGGHTS
```

To clone the public LIGGGHTS repository, open a terminal and execute:

git clone git://cfdem.git.sourceforge.net/gitroot/cfdem/liggghtsdev LIGGGHTS-PUBLIC

If not already done, open a terminal and create a directory for CFDEMcoupling in \$HOME:

```
cd
mkdir CFDEM
```

Make sure that OpenFOAM(R)-2.1.x is already set up correctly!

To clone the public CFDEMcoupling repository, open a terminal and execute:

git clone git://github.com/CFDEMproject/CFDEMcoupling-PUBLIC.git CFDEMcoupling-PUBLIC-\$WM\_PROJECT\_VERSION

Note: the git protocol will not work if your computer is behind a firewall which blocks the relevant TCP port, you can use alternatively:

```
git clone https://github.com/CFDEMproject/CFDEMcoupling-PUBLIC.git
```

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## Update your repositories by git pull:

To get the latest version, open a terminal, go to the location of your local installation and type: Warning: git stash will remove your changes in \$HOME/CFDEM/CFDEMcoupling-PUBLIC-\$WM\_PROJECT\_VERSION /

```
cd $HOME/CFDEM/CFDEMcoupling-PUBLIC-$WM_PROJECT_VERSION
git stash
git pull
```

#### set environment variables:

Now you need to set some environment variables in ~/.bashrc (if you use c-shell, manipulate ~/.cshrc accordingly). Open ~/.bashrc

```
gedit ~/.bashrc &
```

# add the lines:

Save the ~/.bashrc, open a new terminal and test the settings. The commands:

```
$CFDEM_PROJECT_DIR
$CFDEM_SRC_DIR
$CFDEM_LIGGGHTS_SRC_DIR
```

should give "...: is a directory" otherwise something went wrong and the environment variables in ~/bashrc are not set correctly.

To specify the paths of pizza, please check the settings in \$CFDEM\_SRC\_DIR/etc/bashrc.

If \$CFDEM\_SRC\_DIR is set correctly, you can type

```
cfdemSysTest
```

to get some information if the paths are set correctly.

### compile LIGGGHTS and CFDEMcoupling:

If above settings were done correctly, you can compile LIGGGHTS by typing:

git clone git://github.com/CFDEMproject/CFDEMcoupling-PUBLIC.git CFDEMcoupling-PUBLIC-\$WM PROJECT

cfdemCompLIG

and you can then compile CFDEMcoupling by typing:

cfdemCompCFDEM

You can run the tutorial cases by executing .../etc/testTutorial.sh through the alias *cfdemTestTUT*. Alternatively you can run each tutorial using the *Allrun.sh* scripts in the tutorial directories.

In case questions concerning the installation arise, please feel free to contact our forum at www.cfdem.com.

# run your own cases:

If you want to run your own cases, please do so in \$CFDEM\_PROJECT\_USER\_DIR/run which is automatically being generated. E.g. copy one of the tutorial cases there, adapt it to your needs. Changes in \$CFDEM\_TUT\_DIR will be lost after every *git stash*!