How to get a dome to run:

Download code base: <https://github.com/penn-graphics-research/ziran2020> (save where it works for you)

Download mesh data: <https://www.seas.upenn.edu/~cffjiang/research/ziran2020/Data.zip>

(save is the ziran2020 directorys/files)

I am downloading an Ubuntu desktop app.

<https://ubuntu.com/download/desktop>

You can either use that like a normal Ubuntu but to get to your mounted hard drives or any of the hard drives on your computer. Use the commands:

“DF” to find the mounted hard,

“LS” list the directorys/files that are in the current directory.

“cd “x” ” entered the directory x ( x is a directorys)

First use.

run:

sudo apt-get install make cmake g++ libeigen3-dev gfortran libmetis-dev

sudo apt-get install libopenvdb-dev libboost-all-dev libilmbase-dev libopenexr-dev

sudo apt-get install libtbb2 libtbb-dev libz-dev clang-format-6.0 clang-format

sudo apt-get install g++-7

then navigate to where you have ziran2020 on your computer in the Ubuntu desktop app command line.

In the very first C makefile (in ziran2020\ )

“Turn off amgcl cuda by modifying Cmakelists on line 29: option(ENABLE\_AMGCL\_CUDA "Use amgcl cuda" OFF)”

On the Ubuntu command line In ziran2020

Ran:

mkdir build && cd build

“cmake .. -DCMAKE\_BUILD\_TYPE=Release -DCMAKE\_C\_COMPILER=/usr/bin/gcc-7 -DCMAKE\_CXX\_COMPILER=/usr/bin/g++-7 “

make -j 4

(for all cmake use “cmake .. -DCMAKE\_BUILD\_TYPE=Release -DCMAKE\_C\_COMPILER=/usr/bin/gcc-7 -DCMAKE\_CXX\_COMPILER=/usr/bin/g++-7

”)

in the Ubuntu command line, navigate to ziran2020/Projects/anisofracture (there should be a read me in there)

but to run a small demo (took my computer less than a hour)

make sure that in anisofracture.cpp and change line 14 is set for the 2D/3D, should be 3 for this.

run:

“make anisofracture -j8”

“python3 anisofractureBatch3D.py” your python for the “python anisofractureBatch3D.py” mime is python3.

(this may help <https://github.com/penn-graphics-research/ziran2020/issues/8> )