**Linux:**

Použité skripty:

- decimated\_ALL.sh

- smooth\_ALL.sh

potreba nastavenia ciest v týchto skriptoch

**Najprv builduj LIBIGL, pretoze v OPENMESH skriptoch treba potom cesty na LIBIGL binarky**

**LIBIGL**

Linux install:

*Dependencies:*

sudo apt-get install git

sudo apt-get install build-essential

sudo apt-get install cmake

sudo apt-get install libx11-dev

sudo apt-get install mesa-common-dev libgl1-mesa-dev libglu1-mesa-dev

sudo apt-get install libxrandr-dev

sudo apt-get install libxi-dev

sudo apt-get install libxmu-dev

sudo apt-get install libblas-dev

sudo apt-get install libxinerama-dev

sudo apt-get install libxcursor-dev

git clone <https://github.com/libigl/libigl.git>

**!! do cesty** libigl/tutorial **unzip** libigl.zip (3 nove Mine\_\* zlozky a CMakeLists.txt)

cd libigl/

mkdir build

cd build

cmake ..

make

**!! po zbuildeni do** libigl/build/tutorial **unzip** libigl\_build.zip (2 \*.sh a data/bunny.obj)

Skripty:

./decimate.sh bunny 17408

(bunny.obj obsahuje 34817 vertices 50% je cca. 17408)

* vytvori sa subor data/bunny.dec.obj
* skript vypise aj cas a hausdorff distance a zobrazi bunny.obj a bunny.dec.obj

Linky: [**https://libigl.github.io/tutorial/**](https://libigl.github.io/tutorial/)

**OPENMESH**

Linux install:

git clone [**https://github.com/etlapale/OpenMesh**](https://github.com/etlapale/OpenMesh)

**!! do cesty** OpenMesh/src/OpenMesh/Apps **unzip** OpenMesh.zip (OwnProject/ a CMakeLists.txt)

cd OpenMesh/

mkdir build

cd build

cmake ..

make

**!! po zbuildeni do** OpenMesh/build/Build/bin **unzip** OpenMesh\_build.zip (2 \*.sh a data/bunny.obj)

Skripty:

./decimate.sh bunny 0.5

(bunny.obj obsahuje 34817 vertices 50% je cca. 17408)

* POZOR je treba mat funkcne binarky z libigl a nastavit cesty v skripte
* vytvori sa subor data/bunny.dec.obj
* skript vypise aj cas a hausdorff distance a zobrazi bunny.obj a bunny.dec.obj

Linky: [**https://www.openmesh.org/media/Documentations/OpenMesh-6.3-Documentation/a00036.html**](https://www.openmesh.org/media/Documentations/OpenMesh-6.3-Documentation/a00036.html)