

Instructions to install MorphoMechanX from pre-compiled package

These instructions work either for Linux Mint 19 or Ubuntu 20.04

NOTE: you will need Cuda installed (<https://docs.nvidia.com/cuda/index.html>), even if you opt for the OMP compiled version (no NVIDIA graphics card required in this case)

- 1.To install MorphoMechanX from package, download the one compatible with your distribution on your computer system.
- 2.Use the one with OMP in the name unless you have a decent double precision graphics card, such as an Geforce Titan or a Titan V. To run the pollen grain indentation model using Cuda (and so the GPU), the memory space on the GPU should be sufficiently big, 6GB are known to be enough.
- 3.If you want to use the Cuda version, install Cuda 11 from the Nvidia website (note that Linux Mint 19 is equivalent to Ubuntu 18)
- 4.To be able to run the models, some additional packages are required:
 - libqt5opengl5-dev
 - libboost-all-dev
 - libgsl-dev
 - libthrust-dev
 - libtbb-dev

The easiest way is to install them directly from terminal by typing (you will need root privileges): `sudo apt-get install "nameOfPackage"`