The geometry file has to be in ./input/geometry/.

In this file, the user writes, for each surface of the spacecraft:

* the normal to the surface expressed in the spacecraft body reference system
* the area of the surface (in cm2)
* the total solar cell area of the surface (in cm2)(0 if there is no solar panel on the surface)
* the drag coefficient (and the standard deviation around this value if ensembles of the drag coefficient are run)
* the solar radiation coefficient

The document starts with a header:

#BEGINNINGOFHEADER

*put your header here*

#ENDOFHEADER

Then, if you want to run ensembles on the drag coefficient (see document how\_to\_use\_ensembles), put the following section right after the header:

#NB\_ENSEMBLES\_CD

100

if you want to run 100 ensembles (put 276 at the second line if you want to run 276 ensembles!). #NB\_ENSEMBLES\_CD must be at the line right below #ENDOFHEADER.

If you do not want to run ensembles on Cd, then put 0 for this number or delete the entire section #NB\_ENSEMBLES\_CD.

Then for each surface of the satellite write a section as follow:

leave a blank line

# Name of the surface (can be any name)

normal to the surface expressed in the spacecraft body reference system

area of the surface (in cm2)

total solar cell area of the surface (in cm2)

drag coefficient, the standard deviation around this value (don’t put a second number if you do not want to run ensembles, so for example just put 2.2 at this line)

solar radiation coefficient

The body reference system is defined so that in a nadir pointing attitude configuration, X\_body axis is in the direction of the velocity vector, Z\_body is zenith, and Y\_body is such that the basis (e\_x; e\_y; e\_z) is orthogonal oriented in the right-hand direction.