

ADRC law is greatly affected by the execution frequency of the controller. HIL simulation cannot reflect the actual flight performance due to its unstable execution frequency.

The parameters in 'FLY' are tested on a real aircraft, but when you apply them to your own aircraft, you need to re-tune.

The following steps can help you tune custom parameters in QGC

1. Use the 'px4_simulink_app_params.c' file to define the new parameters that will show up in QGC
2. simulink configuration

Configuration Parameters->Code Generation->Custom Code

Insert custom C code in generated:

Additional build information:Source files

px4_simulink_app_params.c

3. delete the parameters.xml

This file is located :

C:\PX4PSP\Firmware\build_<firmware_variant>\parameters.xml

Where <firmware_variant> could be px4fmv-v3_default or px4fmv-v2_default, etc