```
Calibration results
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.29949472541616323, median 0.22725006028799163, std: 0.2680814104432474
Gyroscope error (imu0):
                          mean 0.4497135549311922, median 0.36513163272318117, std: 0.3864656927296592
Accelerometer error (imu0): mean 0.4836704858784176, median 0.3332029585009049, std: 0.6112077319015459
Residuals
Reprojection error (cam0) [px]:
                              mean 0.29949472541616323, median 0.22725006028799163, std:
0.2680814104432474
Gyroscope error (imu0) [rad/s]:
                              mean 0.0019389973653587047, median 0.0015743116170196282, std:
0.0016662961384808384
Accelerometer error (imu0) [m/s^2]: mean 0.13102185179434783, median 0.09026159321434807, std:
0.16557050968144935
Transformation (cam0):
T ci: (imu0 to cam0):
[-0.99995074 -0.00114753 0.00985913 -0.06401138]
[-0.00985131 -0.0066336 -0.99992947 -0.04062056]
[ 0.00121285 -0.99997734  0.00662197 -0.08447708]
10.
               0.
                       1.
T ic: (cam0 to imu0):
[[-0.99995074 -0.00985131 0.00121285 -0.06430594]
[-0.00114753 -0.0066336 -0.99997734 -0.08481808]
[0.00985913 -0.99992947 0.00662197 -0.03942719]
I 0.
        0.
               0.
                       1.
                             11
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
-0.005463174969400067
```

Gravity vector in target coords: [m/s^2] [-0.02684342 -9.7367206 -1.16789311]

Calibration configuration

cam0

Camera model: pinhole

Focal length: [389.1458201515726, 389.4874154490492]

Principal point: [315.34538578231576, 245.13929995100375] Distortion model: radtan

Distortion coefficients: [-0.34745438000640294, 0.12215219289504753, 0.0003565736103299981,

-0.0007521817923566013]

Type: aprilgrid Tags: Rows: 6 Cols: 6

Size: 0.088 [m]

Spacing 0.02639999999999996 [m]

IMU configuration

IMU0:

Model: calibrated Update rate: 100 Accelerometer:

Noise density: 0.027089073164427782

Noise density (discrete): 0.2708907316442778 Random walk: 0.0026405437265548015

Gyroscope:

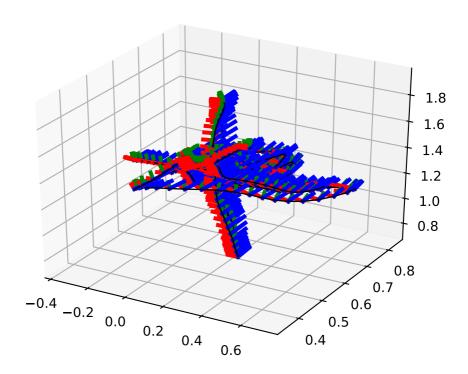
Noise density: 0.0004311627577370619

Noise density (discrete): 0.0043116275773706185

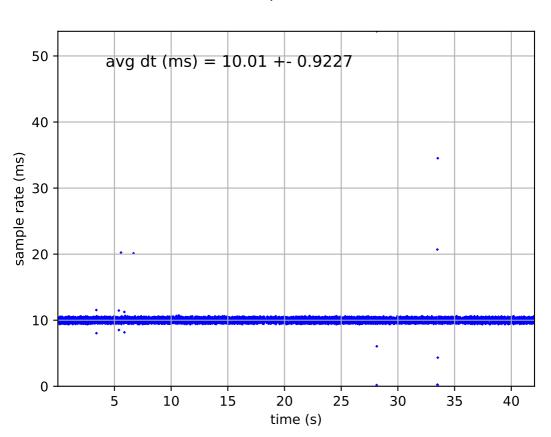
Random walk: 5.5971879319209416e-05

T_ib (imu0 to imu0)
[[1. 0. 0. 0.]
[0. 1. 0. 0.]
[0. 0. 1. 0.]
[0. 0. 0. 1. 0.]
[time offset with respect to IMU0: 0.0 [s]

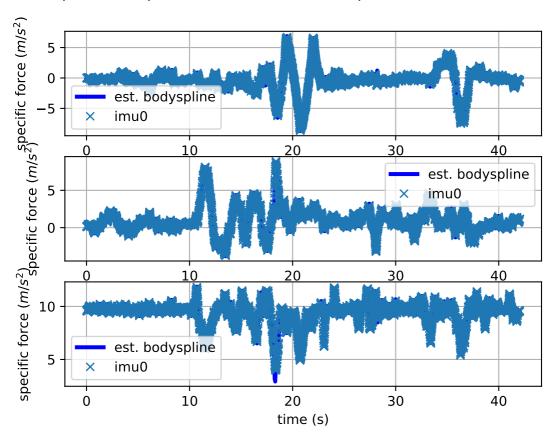
imu0: estimated poses



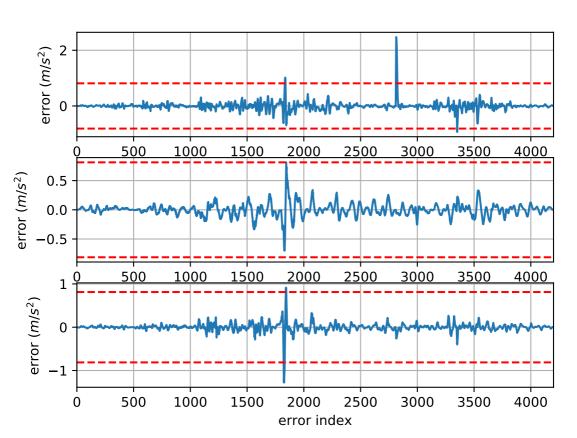
imu0: sample inertial rate



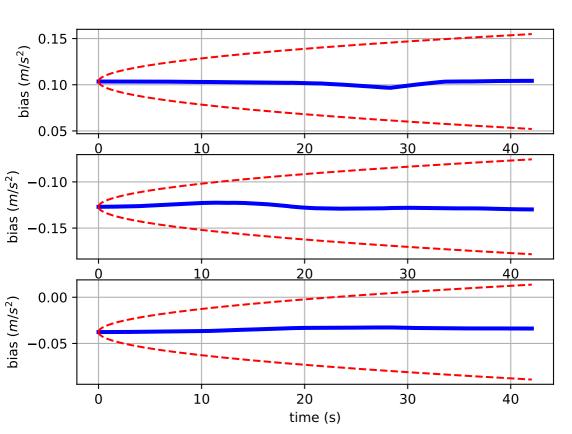
Comparison of predicted and measured specific force (imu0 frame)



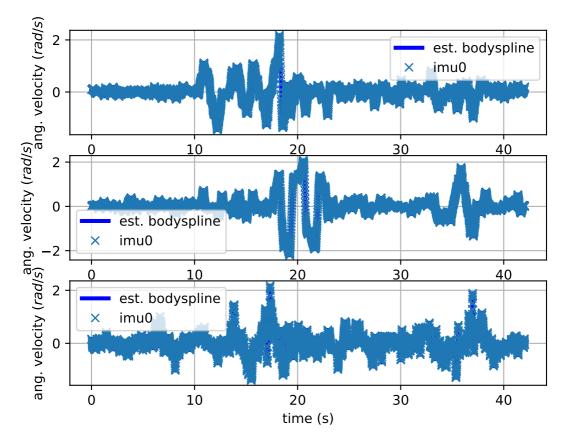
imu0: acceleration error



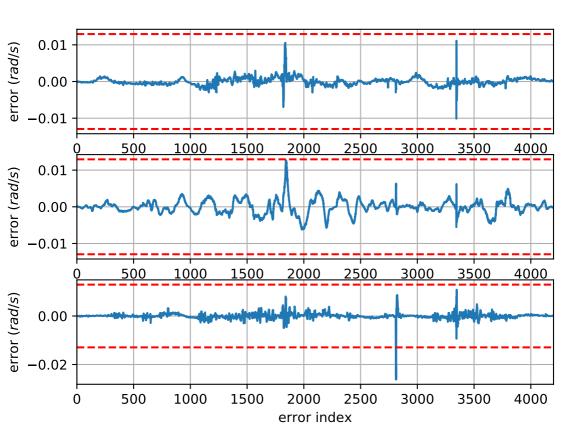
imu0: estimated accelerometer bias (imu frame)



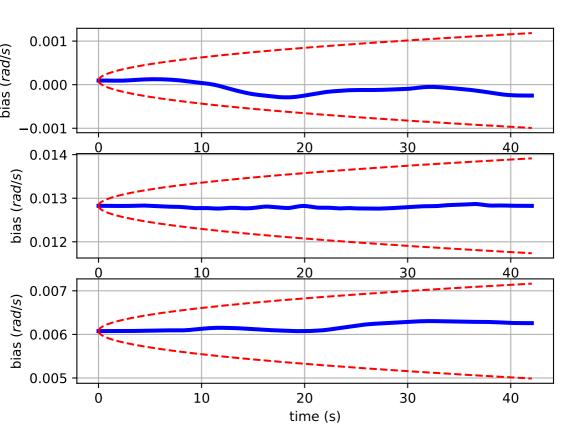
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

