```
Calibration results
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.30696548997836565, median 0.22736209459040677, std: 0.27558545923957095
Gyroscope error (imu0):
                          mean 0.5207052497474107, median 0.36664902707467684, std: 0.4543157108921081
Accelerometer error (imu0): mean 0.4816351510994398, median 0.35340791128695537, std: 0.44893512316740786
Residuals
                              mean 0.30696548997836565, median 0.22736209459040677. std:
Reprojection error (cam0) [px]:
0.27558545923957095
Gyroscope error (imu0) [rad/s]:
                              mean 0.0022450870742053044, median 0.0015808540279834212, std:
0.0019588401127644626
Accelerometer error (imu0) [m/s^2]: mean 0.1304704984456038, median 0.09573492764175125, std:
0.12161236395575523
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.49091339 -0.87095748 0.02090719 -0.0217842 ]
[-0.01506087 -0.01551019 -0.99976627 -0.03628775]
[ 0.87107819 -0.49111353 -0.00550322 -0.05667842]
10.
        0.
               0.
                       1.
T ic: (cam0 to imu0):
[[-0.49091339 -0.01506087 0.87107819 0.03813065]
[-0.87095748 -0.01551019 -0.49111353 -0.04737149]
[ 0.02090719 -0.99976627 -0.00550322 -0.03613574]
I 0.
        0.
               0.
                       1.
                             11
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
-0.0010401357321229623
```

Gravity vector in target coords: [m/s^2] [0.00563714 -9.7308541 -1.21608779]

Calibration configuration

cam0

Camera model: pinhole

Focal length: [402.1174035535856, 402.1152411421357] Principal point: [324.5147560075993, 244.2856592964756] Distortion model: radtan

Distortion coefficients: [-0.35070046060377746, 0.11337663311886138, -0.0010909795133790443,

0.00025398293348416544]

Type: aprilgrid Tags: Rows: 6 Cols: 6

Size: 0.088 [m]

Spacing 0.0263999999999999 [m]

IMU configuration

IMU0:

Model: calibrated Update rate: 100 Accelerometer:

Noise density: 0.02708907316

Noise density (discrete): 0.2708907316 Random walk: 0.00264054372

Gyroscope:

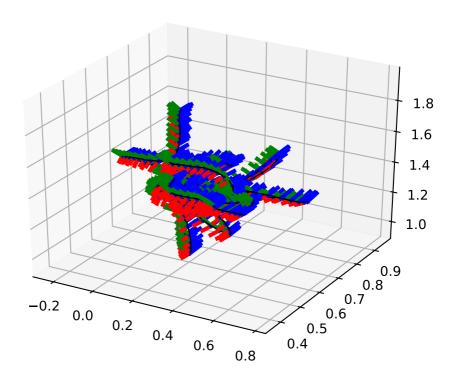
Noise density: 0.00043116275

Noise density (discrete): 0.0043116275

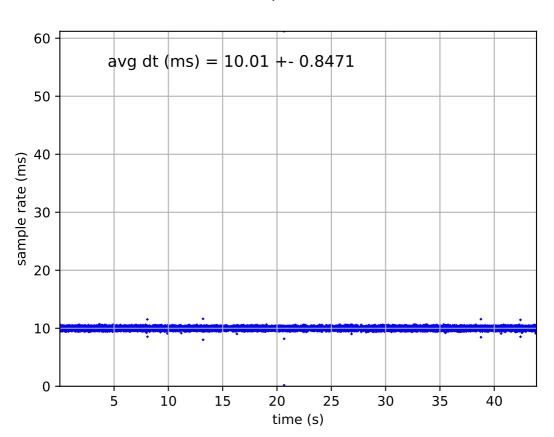
Random walk: 5.597187e-05

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]

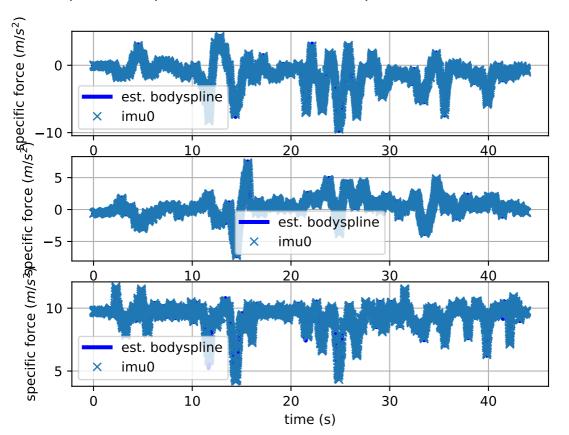
imu0: estimated poses



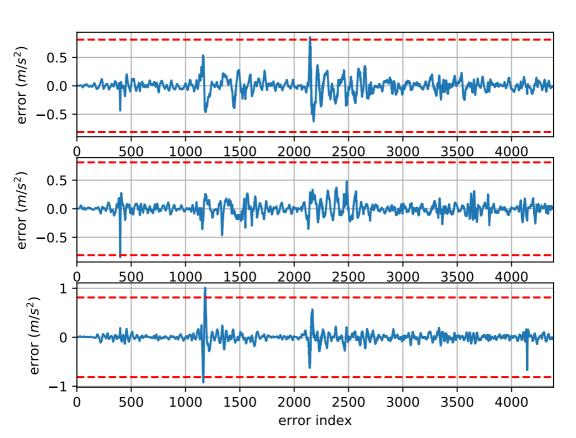
imu0: sample inertial rate



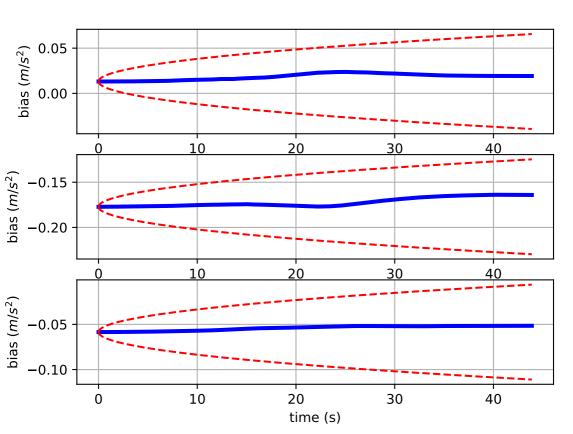
Comparison of predicted and measured specific force (imu0 frame)



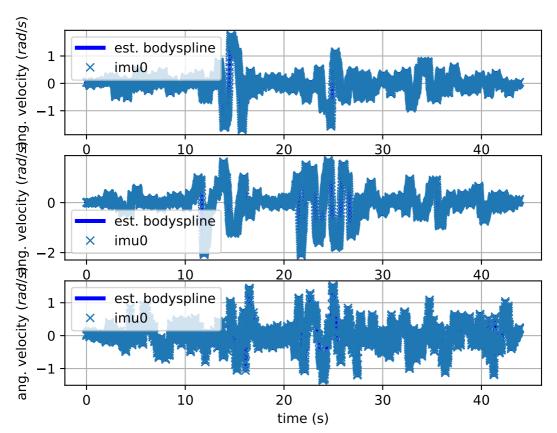
imu0: acceleration error



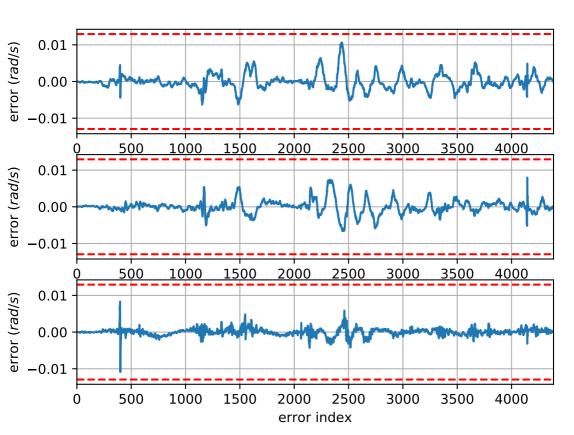
imu0: estimated accelerometer bias (imu frame)



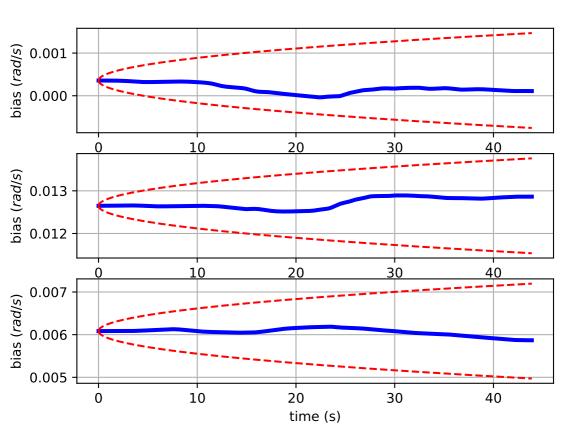
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

