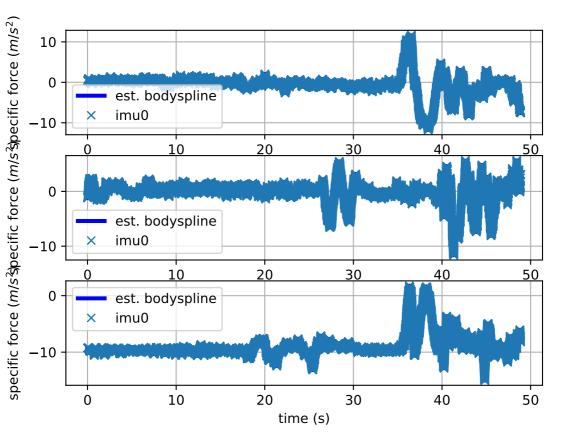
```
Calibration results
================
Normalized Residuals
-----
                         mean 0.08032956593002599, median 0.07431213327097017, std: 0.0441369
Reprojection error (cam0):
Gyroscope error (imu0):
                        mean 0.021036617506086187, median 0.017794705390360883, std: 0.013256
Accelerometer error (imu0):
                          mean 0.08233290044988581, median 0.06711262909511674, std: 0.0786810
Residuals
                             mean 0.08032956593002599, median 0.07431213327097017, std: 0.0443
Reprojection error (cam0) [px]:
Gyroscope error (imu0) [rad/s]:
                             mean 0.00799391465231275, median 0.0067619880483371355, std: 0.00
Accelerometer error (imu0) [m/s^2]: mean 0.03128650217095661, median 0.025502799056144363, std: 0.
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.99989169 0.00739604 0.01272431 -0.00302457]
[ 0.01270714 -0.00236353  0.99991647  0.01118067]
١٥.
        0.
               0.
                      1.
T ic: (cam0 to imu0):
[[-0.99989169 0.01270714 0.0074255 -0.0027417 ]
[ 0.00739604 -0.00236353  0.99996986  0.05723017]
[ 0.01272431  0.99991647  0.00226929 -0.01101148]
[ 0.
        0.
               0.
                       1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0018128742099424312
Gravity vector in target coords: [m/s^2]
```

[-0.02074187 -9.80652455 0.00829909]

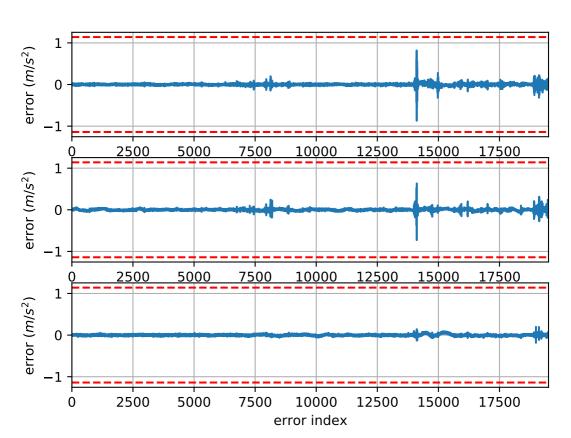
Camera model: pinhole Focal length: [352.9514843860555, 353.32837903547403] Principal point: [363.93345228274336, 266.14511705007413] Distortion model: equidistant Distortion coefficients: I-0.03890973498616883. -0.002604676547864069. 0.0004634700730293949. -0.00 Type: aprilgrid Tags: Rows: 7 Cols: 12 Size: 0.15 [m] Spacing 0.0375 [m] IMU configuration ============= IMU0: Model: calibrated Update rate: 400.0 Accelerometer: Noise density: 0.019 Noise density (discrete): 0.379999999999995 Random walk: 0.0043 Gyroscope: Noise density: 0.019 Noise density (discrete): 0.379999999999995 Random walk: 0.000266 Tib [1, 0, 0, 0, 1][0. 1. 0. 0.] $[0. \ 0. \ 1. \ 0.]$ [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

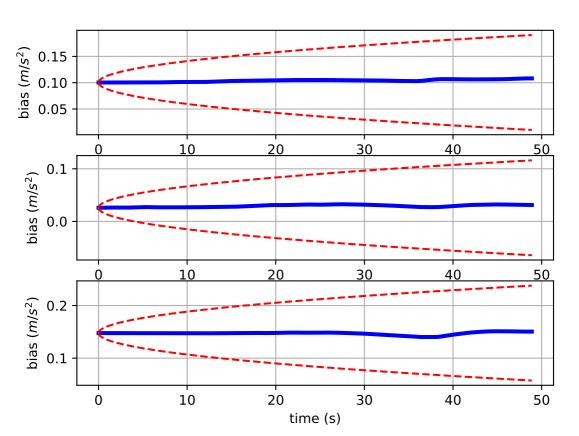
Comparison of predicted and measured specific force (imu0 frame)



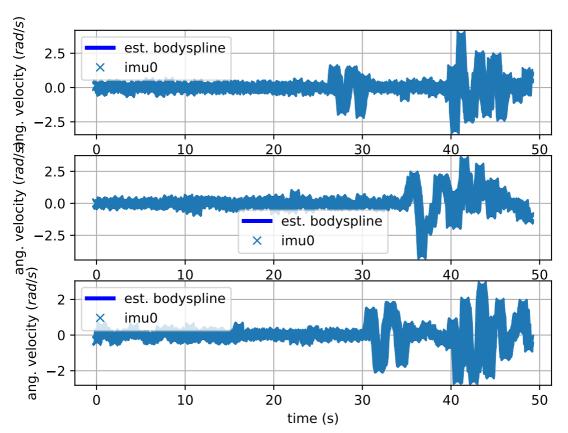
imu0: acceleration error



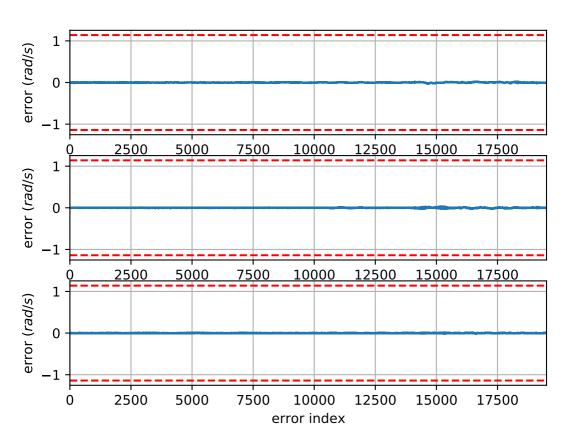
imu0: estimated accelerometer bias (imu frame)



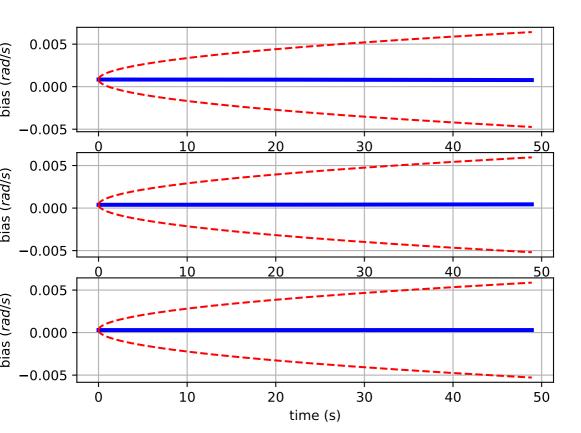
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

