Reprojection error (cam0): mean 0.755907651323, median 0.65076585941, std: 0.546529953775 mean 0.884194023042, median 0.582156488211, std: 0.899067373525 mean 1.57974529398, median 1.19040365118, std: 1.58695749313

```
Residuals
```

```
Reprojection error (cam0) [px]: mean 0.755907651323, median 0.65076585941, std: 0.546529953775 Gyroscope error (imu0) [rad/s]: mean 0.530516413825, median 0.349293892927, std: 0.539440424115 Accelerometer error (imu0) [m/s^2]: mean 0.0789872646991, median 0.0595201825589, std: 0.079347874
```

Transformation (cam0):

```
-----
```

timeshift cam0 to imu0: [s]  $(t_imu = t_cam + shift)$  -0.1388960629466736

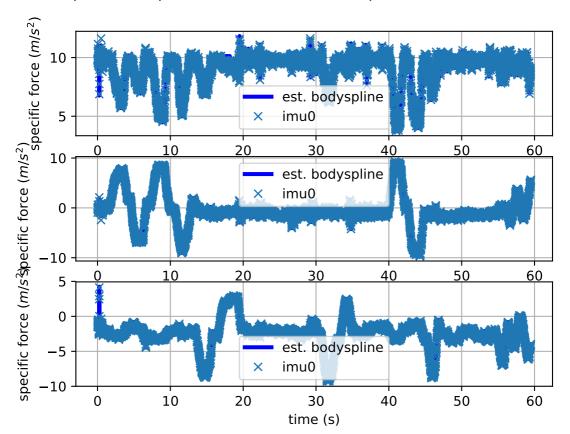
Gravity vector in target coords: [m/s^2] [ 9.53322138 -0.05326538 -2.29853776]

Calibration configuration

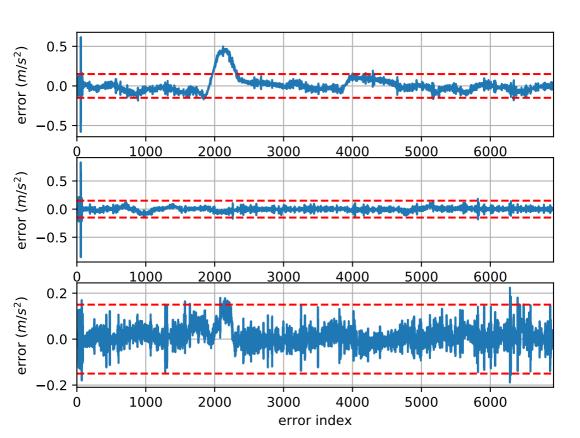
```
Camera model: pinhole
 Focal length: [1137.6778305387977, 1144.0919454590316]
 Principal point: [996.3853260783424, 780.1023320702924]
 Distortion model: radtan
 Distortion coefficients: [-0.2884124212277216, 0.0953459294071787, 0.0008925309684333832, 5.555044
 Type: aprilgrid
 Tags:
  Rows: 7
  Cols: 6
  Size: 0.02 [m]
  Spacing 0.004 [m]
IMU configuration
===========
IMU0:
 Model: calibrated
 Update rate: 100.0
 Accelerometer:
  Noise density: 0.005
  Noise density (discrete): 0.05
  Random walk: 0.0003
 Gyroscope:
  Noise density: 0.06
  Noise density (discrete): 0.6
  Random walk: 0.0005
 Tib
  [1, 0, 0, 0, 1]
  [0, 1, 0, 0.1]
   [0, 0, 1, 0, 1]
  [0. 0. 0. 1.]]
```

time offset with respect to IMU0: 0.0 [s]

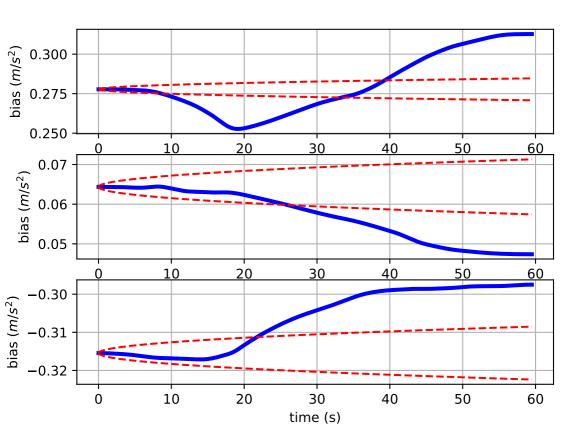
## Comparison of predicted and measured specific force (imu0 frame)



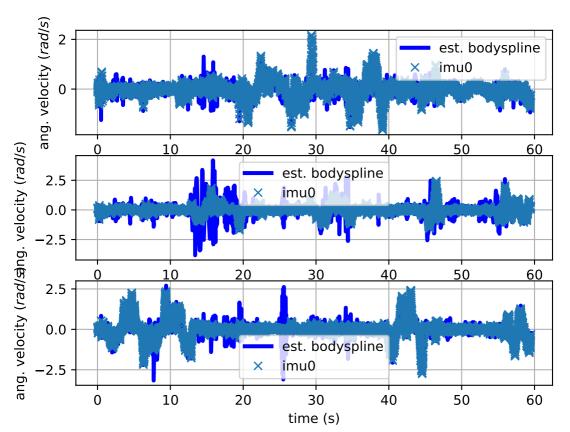
## imu0: acceleration error



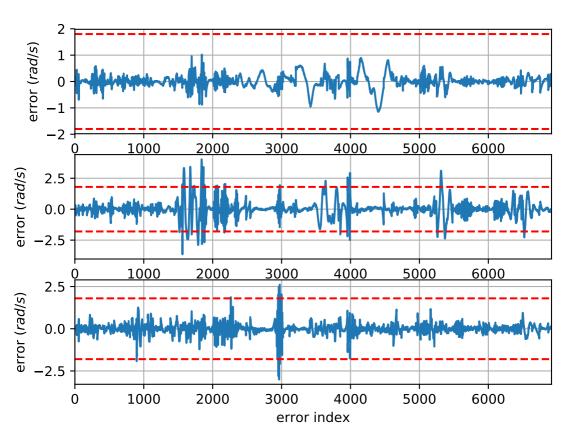
imu0: estimated accelerometer bias (imu frame)



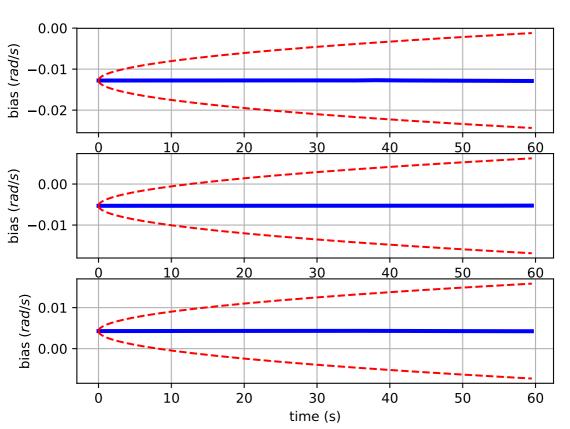
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



## cam0: reprojection errors

