```
Calibration results
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Normalized Residuals
```

mean 0.447654354208, median 0.316760481376, std: 0.413750699381 Reprojection error (cam0): Gyroscope error (imu0): mean 1.34132224991, median 1.19541770884, std: 0.997329350494 Accelerometer error (imu0): mean 4.70506429844, median 3.56312314148, std: 3.5514995983

Residuals

Reprojection error (cam0) [px]:

mean 0.447654354208, median 0.316760481376, std: 0.413750699381 Gyroscope error (imu0) [rad/s]: mean 0.0948458058667, median 0.0845287968269, std: 0.070521834683 Accelerometer error (imu0) [m/s^2]: mean 0.665396574269, median 0.503901707109, std: 0.50225788986

Transformation (cam0):

```
T ci: (imu0 to cam0):
[[ 0.00185578  0.99974159 -0.0226563  0.04057952]
[-0.99978294 0.00232505 0.02070425 -0.02258068]
[ 0.02075157  0.02261296  0.9995289  0.02257822]
[ 0.
                0.
        0.
                        1.
```

T ic: (cam0 to imu0): [[0.00185578 -0.99978294 0.02075157 -0.02311962]

[0.99974159 0.00232505 0.02261296 -0.04102709] [-0.0226563 0.02070425 0.9995289 -0.02118069] [0. 0. 0.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.0006745048386534341

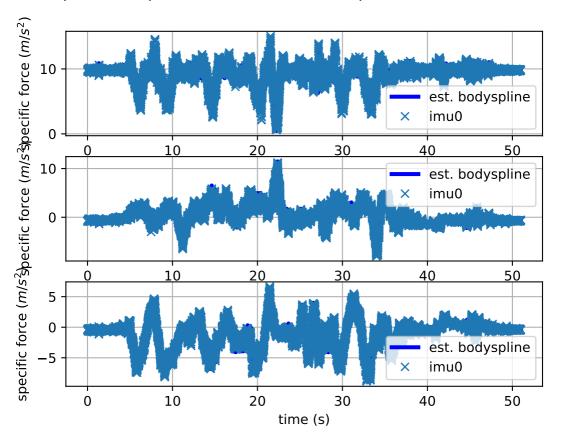
Gravity vector in target coords: [m/s^2] [-0.08193147 8.29398281 -5.23178357]

Calibration configuration

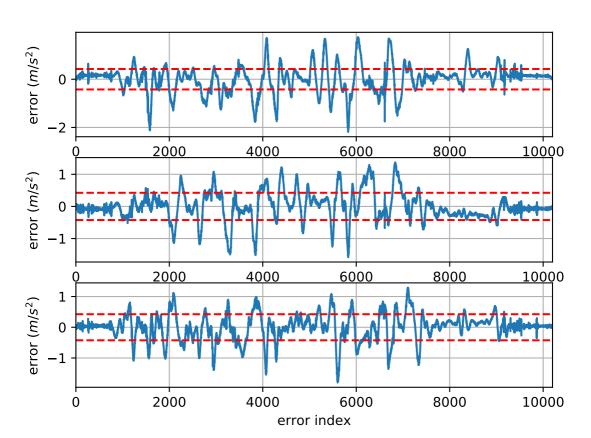
```
Camera model: pinhole
 Focal length: [461.4964895109069, 460.16793531974054]
 Principal point: [360.87162226167675, 234.38821842134732]
 Distortion model: equidistant
 Distortion coefficients: [0.001147811668468915, 0.00615764788300211, -0.007048861965722901, 0.0048
 Type: aprilgrid
 Tags:
  Rows: 6
  Cols: 6
  Size: 0.02 [m]
  Spacing 0.006 [m]
IMU configuration
===========
IMU0:
 Model: calibrated
 Update rate: 200.0
 Accelerometer:
  Noise density: 0.01
  Noise density (discrete): 0.141421356237
  Random walk: 0.0002
 Gyroscope:
  Noise density: 0.005
  Noise density (discrete): 0.0707106781187
  Random walk: 4e-06
 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]

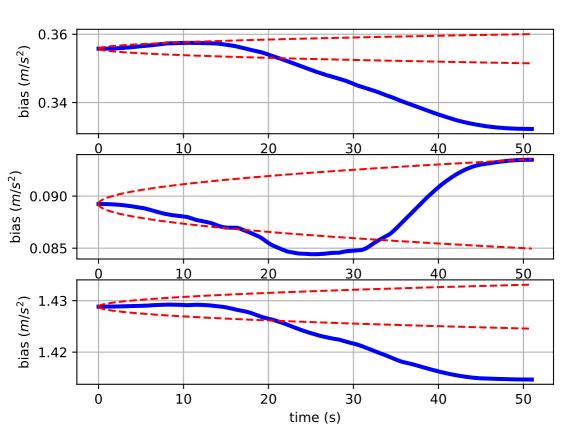
Comparison of predicted and measured specific force (imu0 frame)



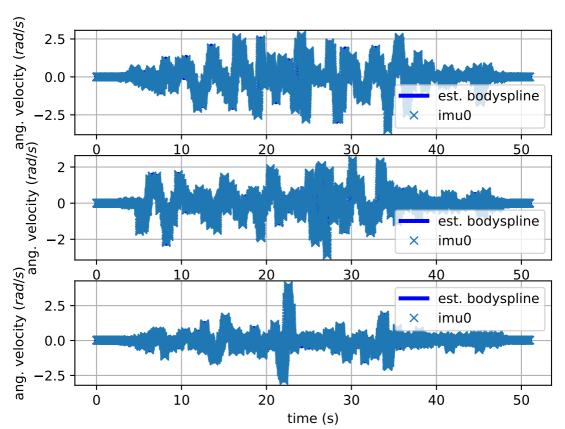
imu0: acceleration error



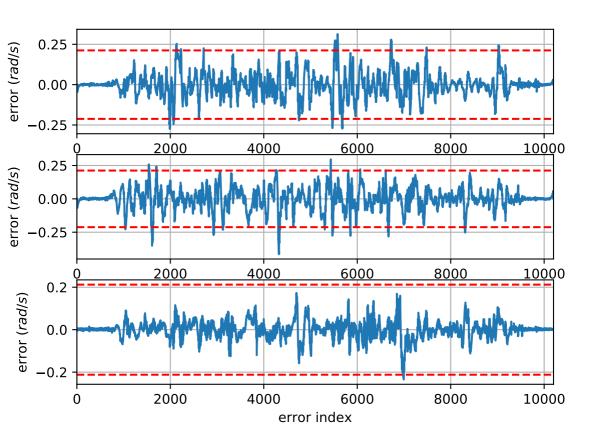
imu0: estimated accelerometer bias (imu frame)



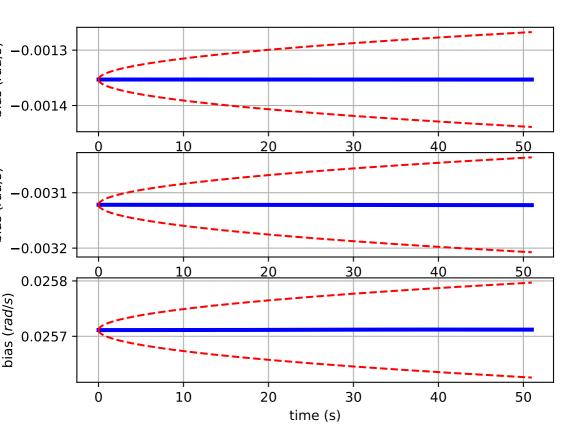
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

