```
Calibration results
______
Normalized Residuals
-----
                      mean 0.213184734717, median 0.102914063073, std: 0.713107026704
Reprojection error (cam0):
```

Gyroscope error (imu0): mean 2.51027531261, median 2.43086714201, std: 0.918108274642 Accelerometer error (imu0): mean 32.2569723633, median 32.3757196116, std: 2.52412779699

```
Residuals
```

```
Reprojection error (cam0) [px]:
```

mean 0.213184734717, median 0.102914063073, std: 0.713107026704 Gyroscope error (imu0) [rad/s]: mean 0.000814580802694, median 0.000788812963199, std: 0.00029792 Accelerometer error (imu0) [m/s^2]: mean 1.07952477413, median 1.08349881717, std: 0.0844734731841

```
Transformation (cam0):
```

T ic: (cam0 to imu0):

```
T ci: (imu0 to cam0):
[ 0.99999561  0.00296381 -0.00005937  0.0005695 ]
[0.00006775 -0.00282681 0.999996 -0.09977041]
                 1.
[ 0.
      0.
            0.
```

```
[[0.00296363 0.99999561 0.00006775 -0.00074328]
[-0.99999161 0.00296381 -0.00282681 0.06063503]
[-0.002827 -0.00005937 0.999996 0.09994226]
[ 0.
        0.
               0.
```

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.00386948748159722

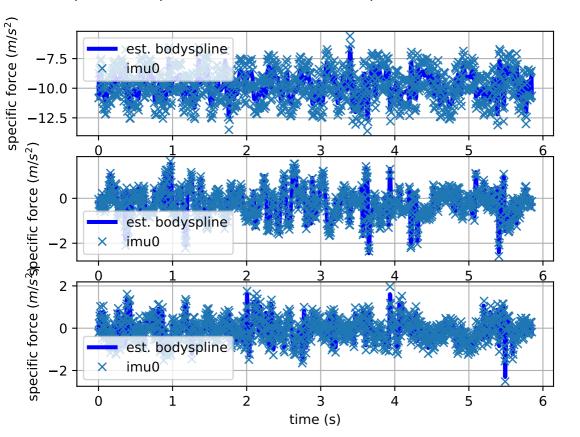
```
Gravity vector in target coords: [m/s^2]
[-0.03813789 9.80647583 -0.00047999]
```

Calibration configuration

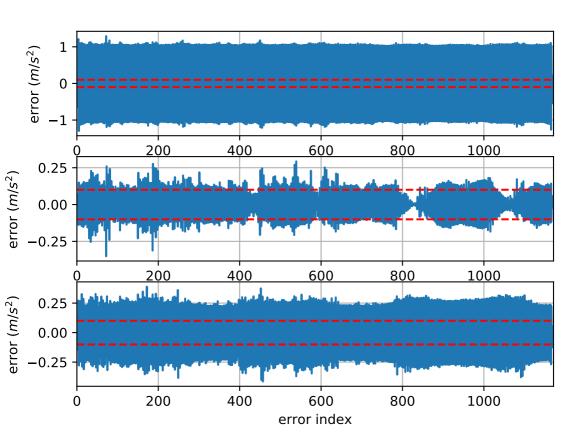
```
Camera model: pinhole
 Focal length: [585.7561, 585.7561]
 Principal point: [320.5, 240.5]
 Distortion model: radtan
 Distortion coefficients: [0.0, 0.0, 0.0, 0.0]
 Type: checkerboard
 Rows
  Count: 6
  Distance: 0.01 [m]
 Cols
  Count: 7
  Distance: 0.01 [m]
IMU configuration
============
IMU0:
 Model: calibrated
 Update rate: 70.0
 Accelerometer:
  Noise density: 0.004
  Noise density (discrete): 0.0334664010614
  Random walk: 0.006
 Gyroscope:
  Noise density: 3.8785e-05
  Noise density (discrete): 0.000324498591291
  Random walk: 0.0003394
 Tib
  [[1. 0. 0. 0.]]
  [0. 1. 0. 0.]
   [0.0.1.0.]
   [0. \ 0. \ 0. \ 1.]]
```

time offset with respect to IMLIO: 0.0 [s]

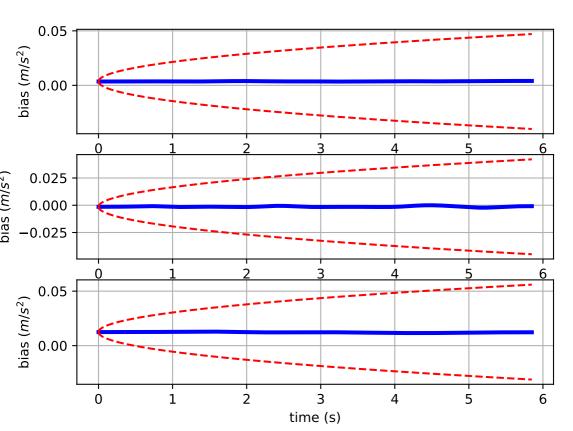
Comparison of predicted and measured specific force (imu0 frame)



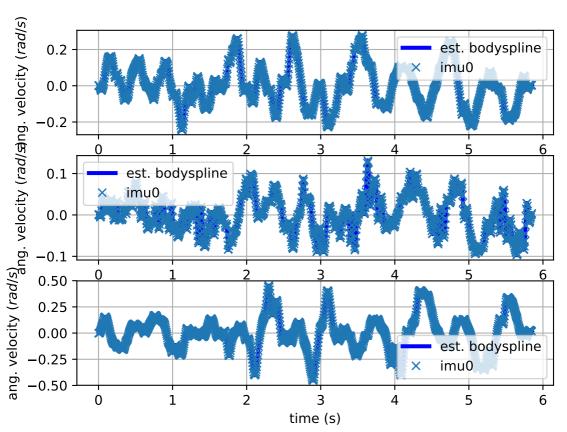
imu0: acceleration error



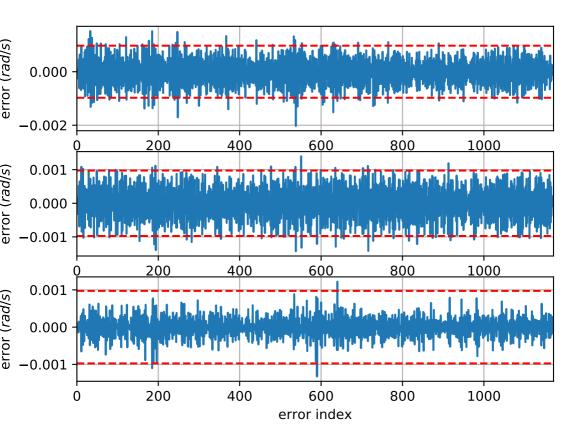
imu0: estimated accelerometer bias (imu frame)



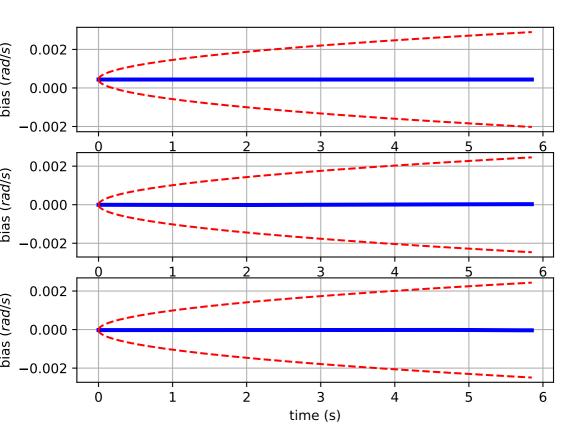
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

