```
Calibration results
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Normalized Residuals
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                        mean 0.105013070749, median 0.0965937245871, std: 0.0572459239142
Reprojection error (cam0):
Gyroscope error (imu0):
                       mean 2.47468327232, median 2.43508838102, std: 0.795289244553
Accelerometer error (imu0):
                        mean 32.3826994905, median 32.4561170426, std: 2.03550603627
```

## Residuals

Reprojection error (cam0) [px]:

Gyroscope error (imu0) [rad/s]: Accelerometer error (imu0) [m/s^2]: mean 1.0837324086, median 1.08618942984, std: 0.0681210613727

## Transformation (cam0):

T ci: (imu0 to cam0):

[[ 0.00812032 -0.99996658 -0.00094367 0.06062781]

[ 0.99996295 0.00812298 -0.00285015 0.00114745] [ 0.00285772 -0.00092049 0.99999549 -0.10128381]

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T ic: (cam0 to imu0):

[[ 0.00812032 0.99996295 0.00285772 -0.00135029]

0.

[ 0.

[-0.99996658 0.00812298 -0.00092049 0.06052323] [-0.00094367 -0.00285015 0.99999549 0.10134384] 0.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.0039490356584600365

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mean 0.105013070749, median 0.0965937245871, std: 0.0572459239142

mean 0.00080303123576, median 0.00079018274931, std: 0.0002580702

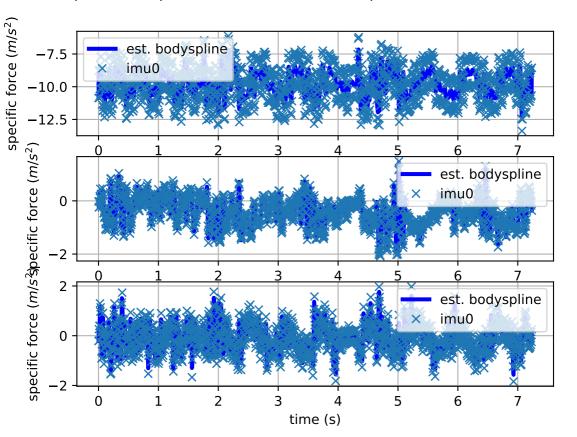
Gravity vector in target coords: [m/s^2] [-0.08204348 9.80616187 -0.02968377]

Calibration configuration

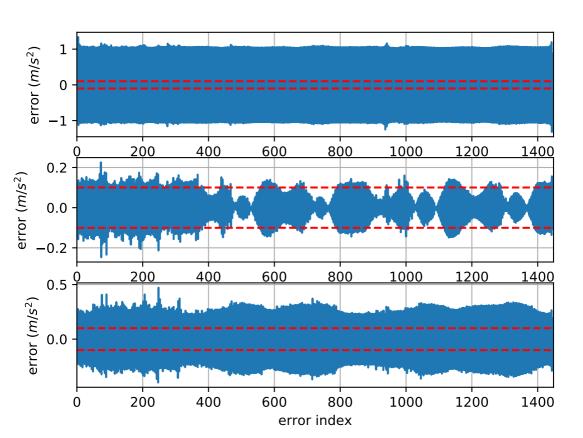
```
Camera model: pinhole
 Focal length: [585.7561, 585.7561]
 Principal point: [320.5, 240.5]
 Distortion model: radtan
 Distortion coefficients: [0.0, 0.0, 0.0, 0.0]
 Type: checkerboard
 Rows
  Count: 6
  Distance: 0.01 [m]
 Cols
  Count: 7
  Distance: 0.01 [m]
IMU configuration
============
IMU0:
 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]

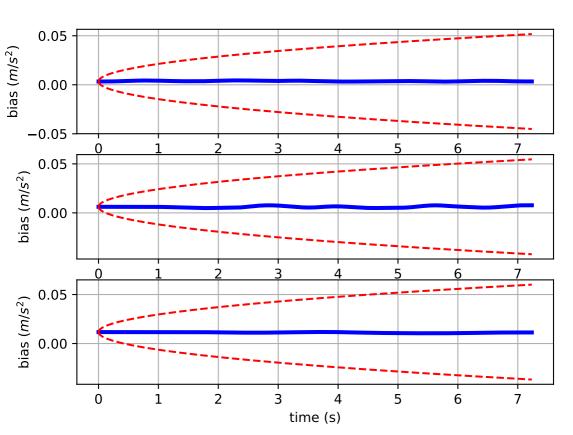
Comparison of predicted and measured specific force (imu0 frame)



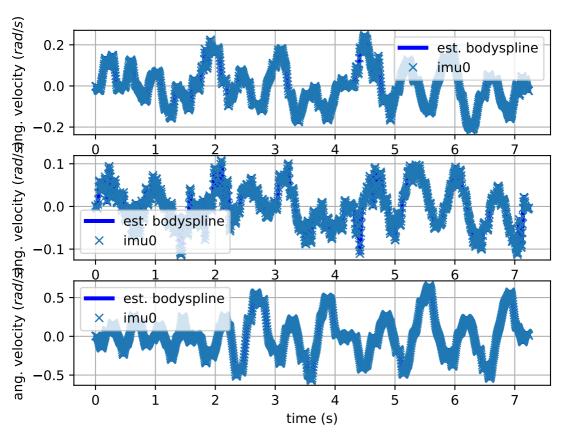
imu0: acceleration error



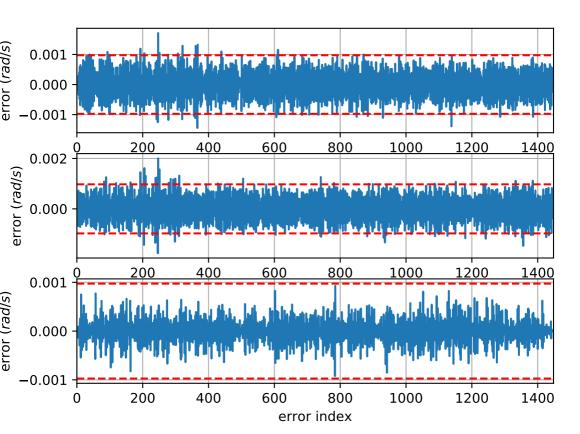
imu0: estimated accelerometer bias (imu frame)



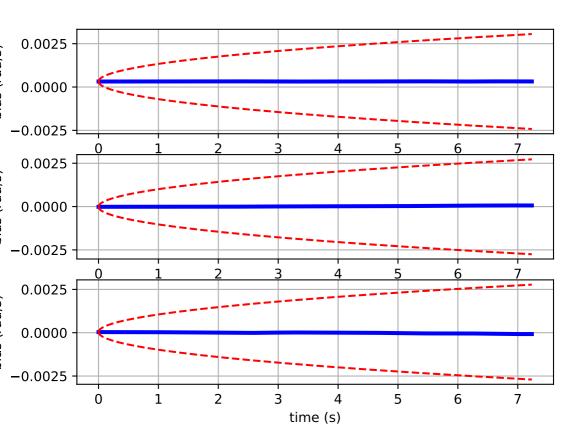
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

