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Calibration results
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Normalized Residuals
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mean 0.0845125054842, median 0.0793267922771, std: 0.0436496177151 Reprojection error (cam0): Gyroscope error (imu0): mean 0.0552407400878, median 0.0447636604058, std: 0.0395366690083 Accelerometer error (imu0): mean 0.148800404821, median 0.126888544685, std: 0.108342530558

```
Residuals
```

Reprojection error (cam0) [px]: mean 0.0845125054842, median 0.0793267922771, std: 0.043649617715 Gyroscope error (imu0) [rad/s]: mean 0.000187487071858, median 0.000151927863417, std: 0.00013418 Accelerometer error (imu0) [m/s^2]: mean 0.00595201619285, median 0.00507554178741, std: 0.0043337

```
Transformation (cam0):
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T ci: (imu0 to cam0):
```

[[-0.00045549 0.99999886 -0.00144028 -0.06139493] [-0.00068917 0.00143996 0.99999873 -0.10074312]

[0.99999966 0.00045649 0.00068852 -0.00116349] ١٥. 0. 0. 1. T ic: (cam0 to imu0): [[-0.00045549 -0.00068917 0.99999966 0.0010661]

[0.99999886 0.00143996 0.00045649 0.06154046] [-0.00144028 0.99999873 0.00068852 0.10065537] [0. 0. 0. 1.

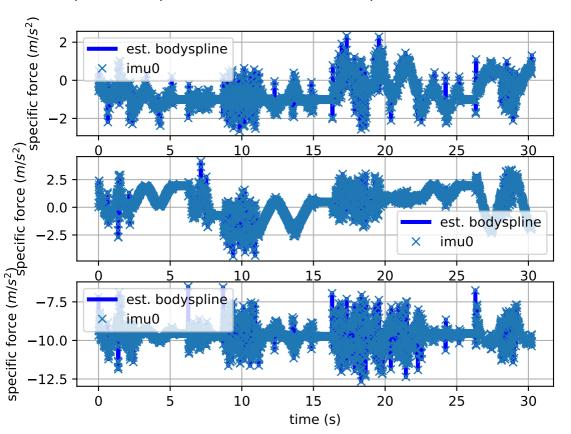
timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.005978488532176186

Gravity vector in target coords: [m/s^2] [-0.00764914 9.80654692 -0.00138451]

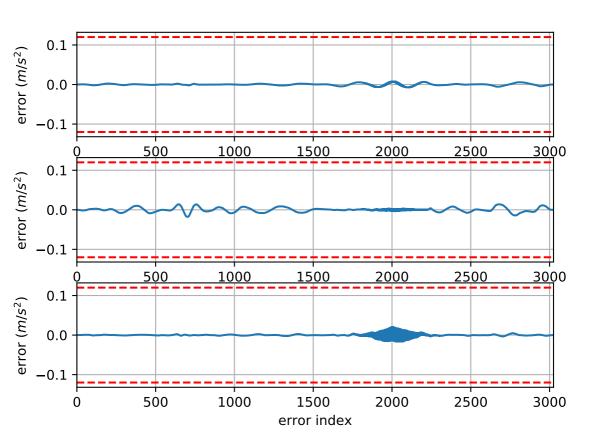
Calibration configuration

```
Camera model: pinhole
 Focal length: [521.9332, 521.9332]
 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: 0.06 [m]
 Cols
  Count: 7
  Distance: 0.06 [m]
IMU configuration
============
IMU0:
 Model: calibrated
 Update rate: 100.0
 Accelerometer:
  Noise density: 0.004
  Noise density (discrete): 0.04
  Random walk: 0.006
 Gyroscope:
  Noise density: 0.0003394
  Noise density (discrete): 0.003394
  Random walk: 3.8785e-05
 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]
```

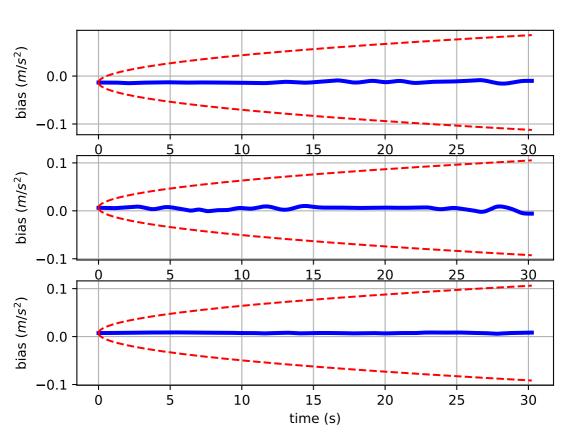
Comparison of predicted and measured specific force (imu0 frame)



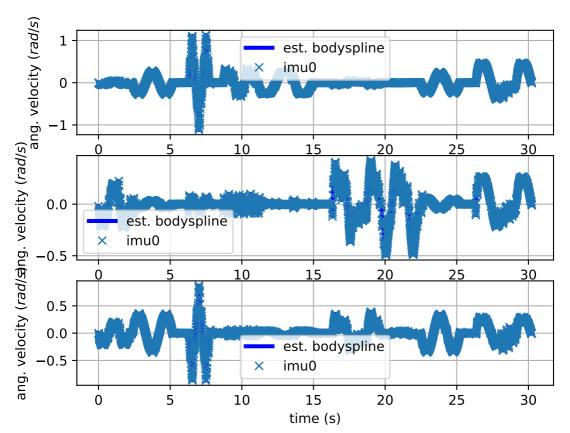
imu0: acceleration error



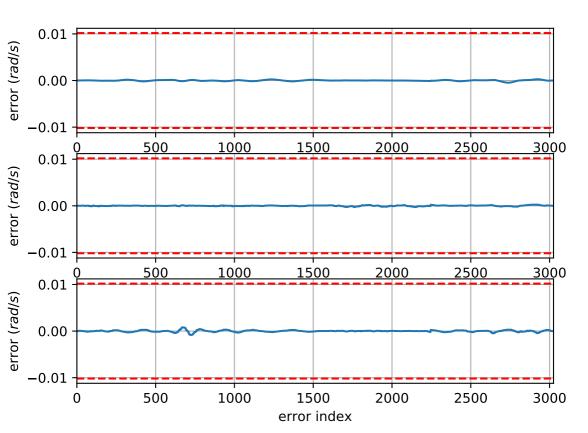
imu0: estimated accelerometer bias (imu frame)



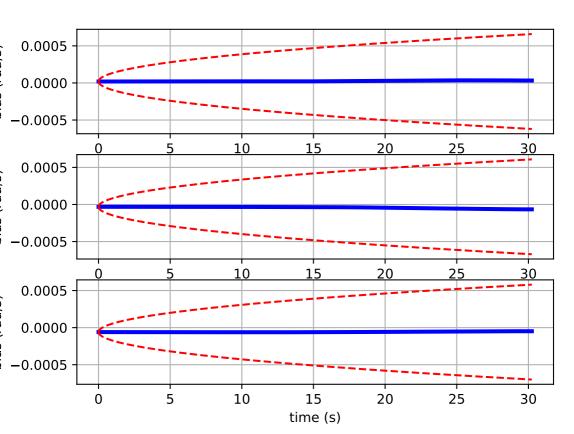
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

