```
Calibration results
===============
Normalized Residuals
-----
Reprojection error (cam0):
```

mean 0.100308339757, median 0.0938802067645, std: 0.0522681486779 Gyroscope error (imu0): mean 1.2979734187, median 1.22020279036, std: 0.594077086962 Accelerometer error (imu0): mean 26.5126216224, median 26.2355418614, std: 1.58444638481

```
Residuals
```

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

mean 0.100308339757, median 0.0938802067645, std: 0.0522681486779 Gyroscope error (imu0) [rad/s]: mean 0.000421190545902, median 0.000395954086561, std: 0.00019277 Accelerometer error (imu0) [m/s^2]: mean 0.887282028403, median 0.878009165997, std: 0.05302571817

```
Transformation (cam0):
```

```
T ci: (imu0 to cam0):
[-0.00644273 - 0.99997876 - 0.00098997 0.05975859]
[-0.00108252 -0.00098302 0.99999893 -0.09445954]
[ 0.
                 1. ]]
      0. 0.
```

```
T ic: (cam0 to imu0):
[[-0.00644273 0.99997866 -0.00108252 -0.00024935]
[-0.99997876 -0.0064438 -0.00098302 0.05966789]
[-0.00098997 0.00107617 0.99999893 0.09451803]
[ 0.
         0.
                0.
                        1.
```

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.003667396693502635

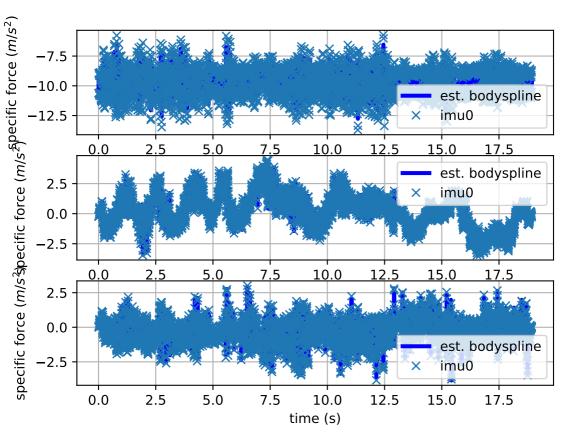
```
Gravity vector in target coords: [m/s^2]
[ 0.06804666  9.80629711 -0.0181539 ]
```

Calibration configuration

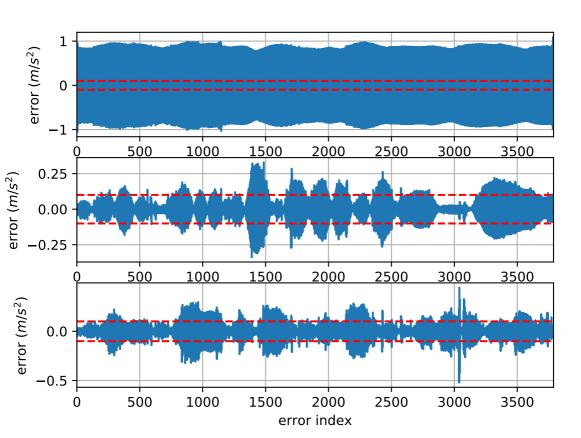
```
Camera model: pinhole
 Focal length: [585.7561, 585.7561]
 Principal point: [320.5, 240.5]
 Distortion model: radtan
 Distortion coefficients: [0.0, 0.0, 0.0, 0.0]
 Type: checkerboard
 Rows
  Count: 6
  Distance: 0.01 [m]
 Cols
  Count: 7
  Distance: 0.01 [m]
IMU configuration
============
IMU0: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

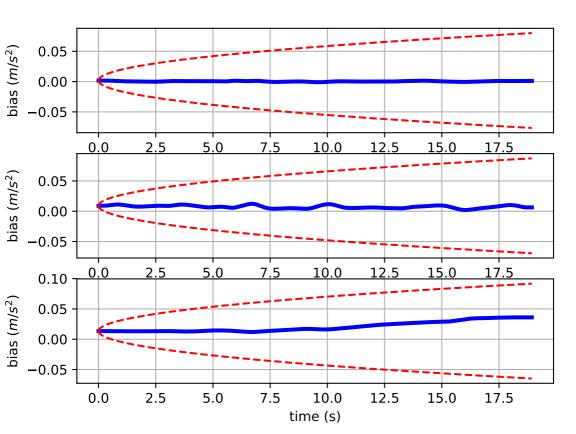
Comparison of predicted and measured specific force (imu0 frame)



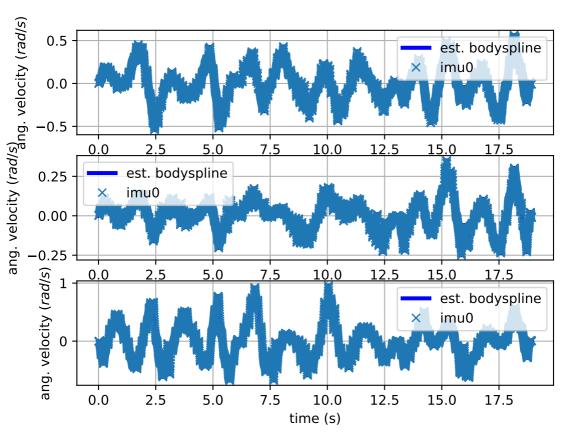
imu0: acceleration error



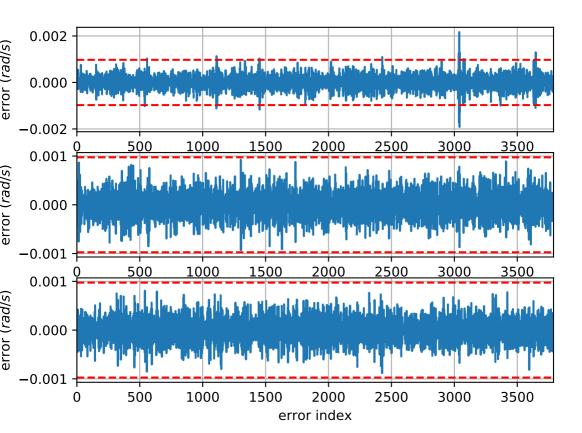
imu0: estimated accelerometer bias (imu frame)



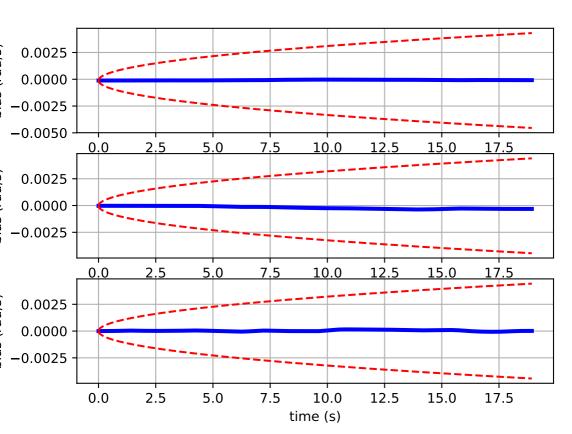
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

