Reprojection error (cam0): mean 0.0452290160639, median 0.0414854020831, std: 0.0249229683156 gyroscope error (imu0): mean 0.0753450551294, median 0.0524895380101, std: 0.0701397842936 Accelerometer error (imu0): mean 1.14795384089, median 0.26101038624, std: 1.80719018186

## Residuals

[ 0.

```
Poprojection error (
```

Reprojection error (cam0) [px]: mean 0.0452290160639, median 0.0414854020831, std: 0.024922968315 Gyroscope error (imu0) [rad/s]: mean 0.00532769994108, median 0.00371157082683, std: 0.0049596317 Accelerometer error (imu0) [m/s^2]: mean 0.162345189076, median 0.036912442814, std: 0.25557528649

Transformation (cam0):

## Transformation (Camb

0.

```
T_ci: (imu0 to cam0):
[[ 0.99997473  0.00110957  0.00702158 -0.04262972]
[-0.00104784  0.99996083 -0.00878848 -0.0063405 ]
[-0.00703106  0.0087809  0.99993673 -0.01062962]
```

0.

1.

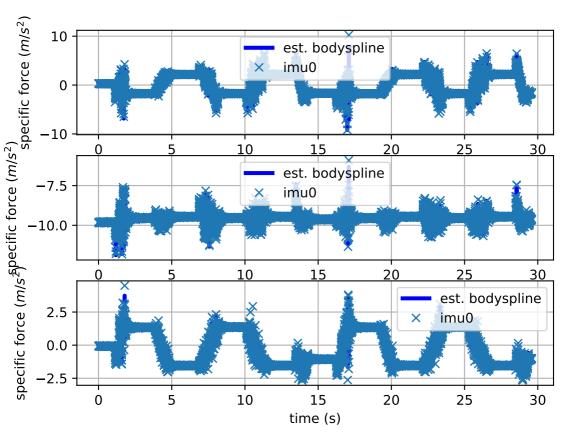
timeshift cam0 to imu0: [s] (t\_imu = t\_cam + shift) 0.001242265201125741

Calibration configuration

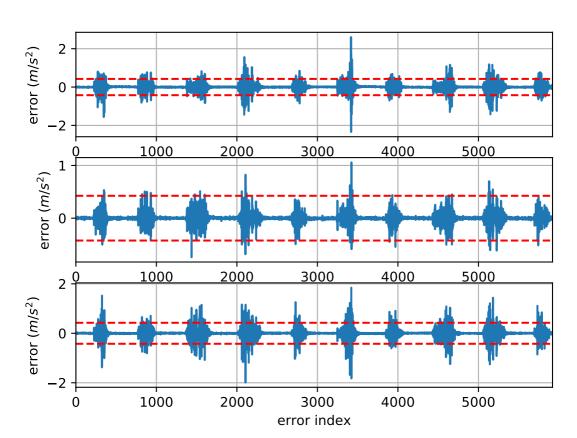
Camera model: pinhole Focal length: [468.2527687453535, 468.3265694180005] Principal point: [364.91196913276707, 215.81303741968622] Distortion model: equidistant Distortion coefficients: [0.011135829319036753, -0.05338166866546771, 0.15329931633590166, -0.1346 Type: checkerboard Rows Count: 7 Distance: 0.07 [m] Cols Count: 6 Distance: 0.07 [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, 1] $[0. \ 0. \ 0. \ 1.]]$ 

time offset with respect to IMLIO: 0.0 [s]

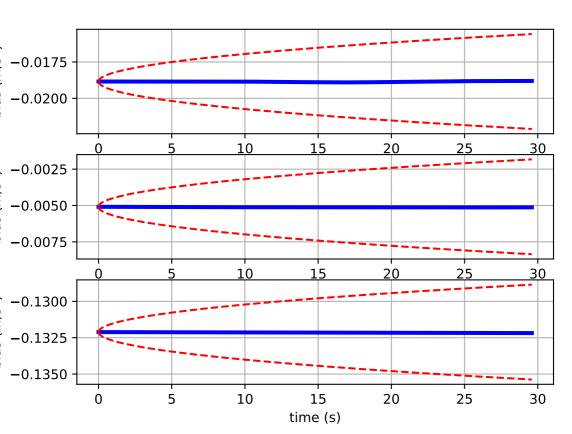
## Comparison of predicted and measured specific force (imu0 frame)



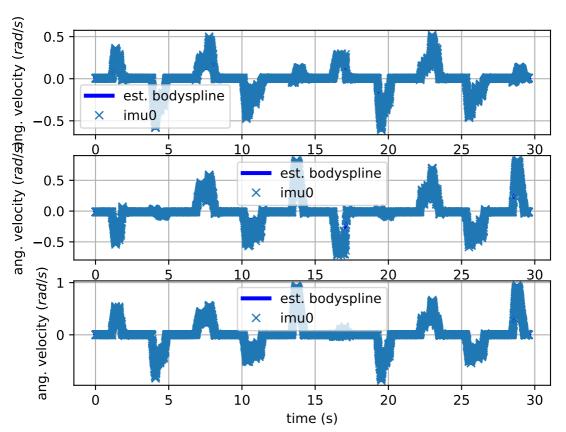
imu0: acceleration error



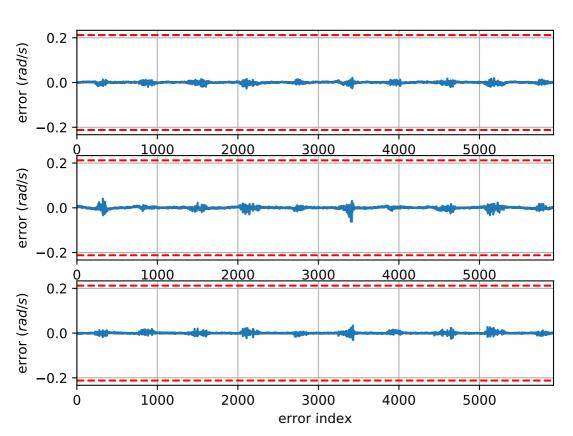
imu0: estimated accelerometer bias (imu frame)



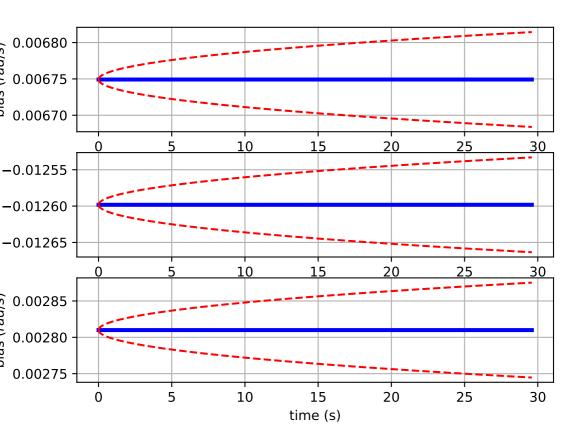
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

