Reprojection error (cam0): mean 0.415481064259, median 0.341153249865, std: 0.305820961524 gyroscope error (imu0): mean 0.675644655009, median 0.569847601912, std: 0.497114901822 Accelerometer error (imu0): mean 0.868747488852, median 0.73920747913, std: 0.660789611027

mean 0.415481064259, median 0.341153249865, std: 0.305820961524

mean 0.000589608064641, median 0.000497283208285, std: 0.00043383

```
Residuals
```

Reprojection error (cam0) [px]:

Gyroscope error (camu) [px]:

Gyroscope error (imu0) [rad/s]:

Accelerometer error (imu0) [m/s^2]: mean 0.0121624648439, median 0.0103489047078, std: 0.009251054

## Transformation (cam0):

T\_ic: (cam0 to imu0):

[[0.00228619 -0.99996641 0.00787067 -0.00095761]

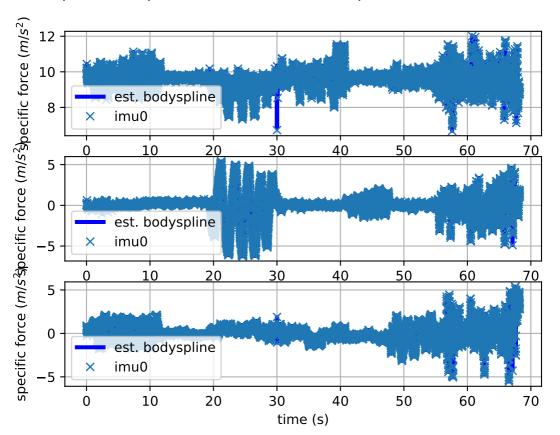
timeshift cam0 to imu0: [s]  $(t_imu = t_cam + shift)$ 

Gravity vector in target coords: [m/s^2] [-0.0448307 -9.80631698 -0.05060086]

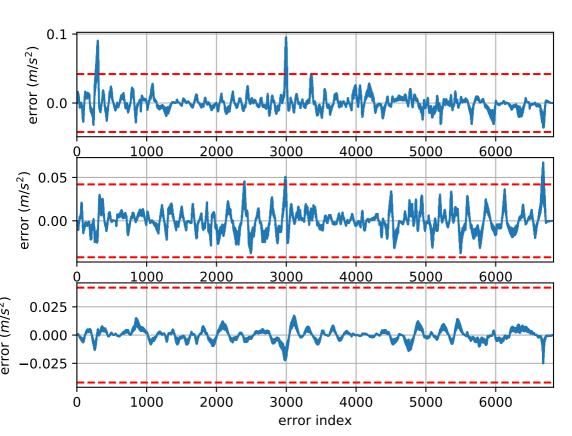
Calibration configuration

```
Camera model: pinhole
 Focal length: [1470.0495238123717, 1467.952524594808]
 Principal point: [673.5134474922614, 483.0784345893267]
 Distortion model: radtan
 Distortion coefficients: [-0.10274641239957318, 0.2103353258353151, -0.0016423912126333651, 0.0018
 Type: aprilgrid
 Tags:
  Rows: 6
  Cols: 6
  Size: 0.0878 [m]
  Spacing 0.02610294 [m]
IMU configuration
===========
IMU0:
 Model: calibrated
 Update rate: 100.0
 Accelerometer:
  Noise density: 0.0014
  Noise density (discrete): 0.014
  Random walk: 8e-05
 Gyroscope:
  Noise density: 8.7266e-05
  Noise density (discrete): 0.00087266
  Random walk: 2,2e-06
 Tib
  [1.0, 0.0]
  [0, 1, 0, 0,]
  [0, 0, 1, 0.]
  [0, 0, 0, 1.1]
 time offset with respect to IMU0: 0.0 [s]
```

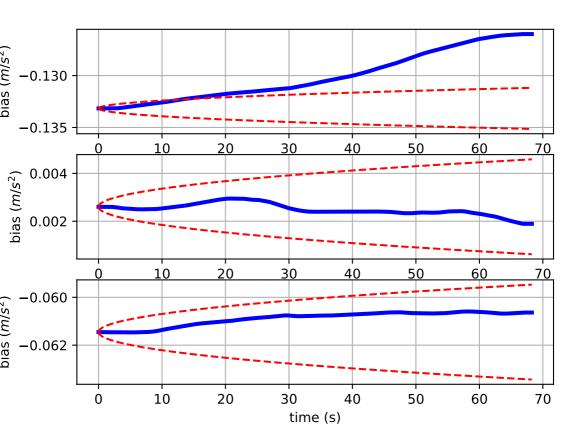
## Comparison of predicted and measured specific force (imu0 frame)



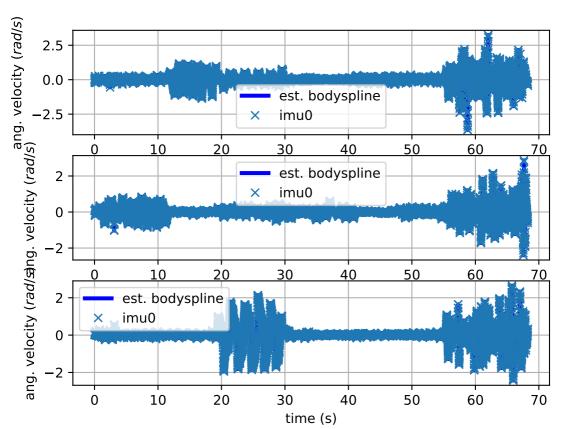
imu0: acceleration error



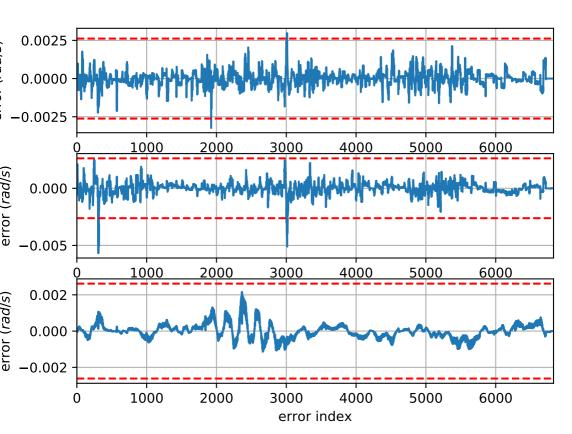
imu0: estimated accelerometer bias (imu frame)



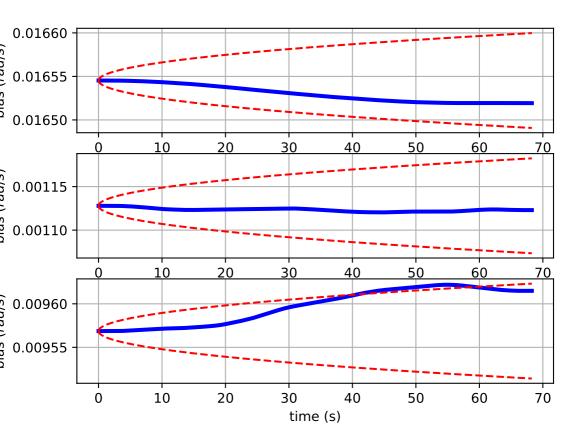
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

