```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                         mean 0.134938178336, median 0.115027115016, std: 0.0952465729065
Gyroscope error (imu0):
                         mean 0.346992845303, median 0.244047651329, std: 0.399689846606
Accelerometer error (imu0): mean 0.148707013765, median 0.0802850523506, std: 0.208799108315
Residuals
Reprojection error (cam0) [px]:
                             mean 0.134938178336, median 0.115027115016, std: 0.0952465729065
Gyroscope error (imu0) [rad/s]:
                              mean 0.0981443975747, median 0.0690270996751, std: 0.113049360363
Accelerometer error (imu0) [m/s^2]: mean 0.420606951374, median 0.22708041978, std: 0.590573061581
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.99989788 -0.01427173 -0.00073409 -0.00123079]
[-0.00064373 -0.00633502 0.99997973 0.00624036]
[-0.01427609 0.99987809 0.00632518 -0.05218335]
١٥.
         0.
                0.
                     1.
                             -11
T ic: (cam0 to imu0):
[[-0.99989788 -0.00064373 -0.01427609 -0.00197163]
[-0.01427173 -0.00633502 0.99987809 0.05219896]
[-0.00073409 0.99997973 0.00632518 -0.00591107]
10.
         0.
                0.
                      1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0464305525559
Gravity vector in target coords: [m/s^2]
[ 0.1330764 -9.80528334 0.08445177]
Calibration configuration
   ================
```

cam0

Camera model: pinhole Focal length: [442.99584899845615, 441.96294832741086] Principal point: [377.83478055031213, 195.82882684251308] Distortion model: radtan Distortion coefficients: [0.03452724578861431, -0.031123349655095868, -7.591550595724006e-05, 0.0019221583490141813] Type: aprilgrid Tags: Rows: 6 Cols: 6 Size: 0.055 [m] Spacing 0.0165 [m] IMU configuration ============= IMU0: \_\_\_\_\_ Model: calibrated Update rate: 200.0 Accelerometer: Noise density: 0.2 Noise density (discrete): 2.82842712475

Random walk: 0.002

Noise density: 0.02

[[ 1. 0. 0. 0.] [ 0. 1. 0. 0.] [ 0. 0. 1. 0.] [ 0. 0. 0. 1.]]

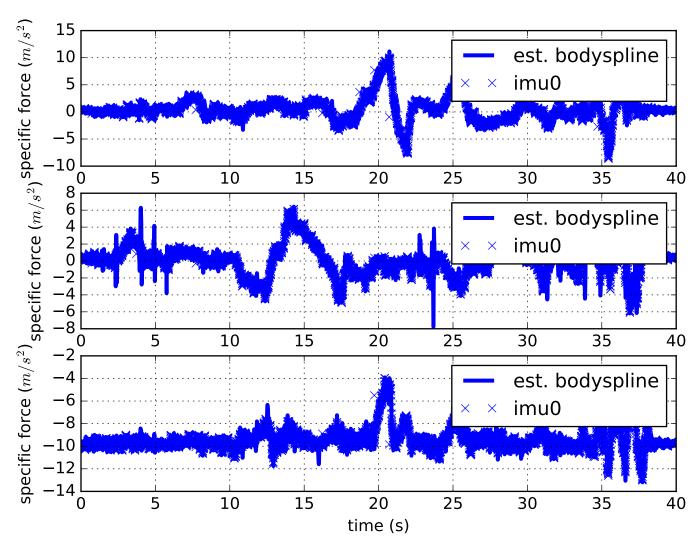
Random walk: 0.0002

Noise density (discrete): 0.282842712475

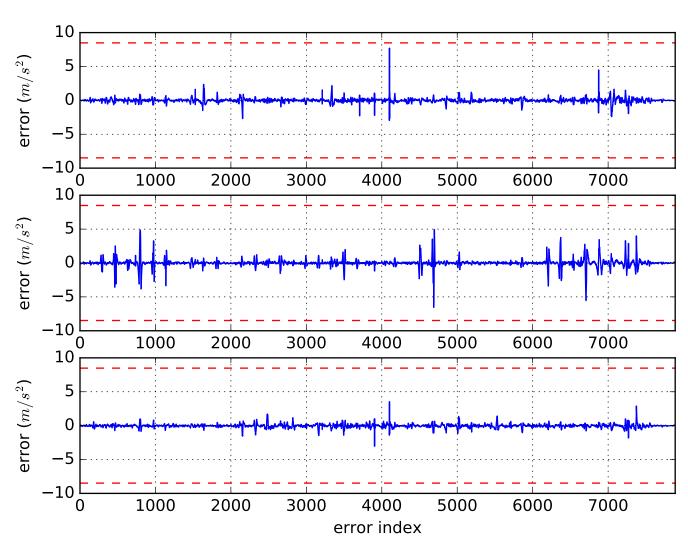
time offset with respect to IMU0: 0.0 [s]

Gyroscope:

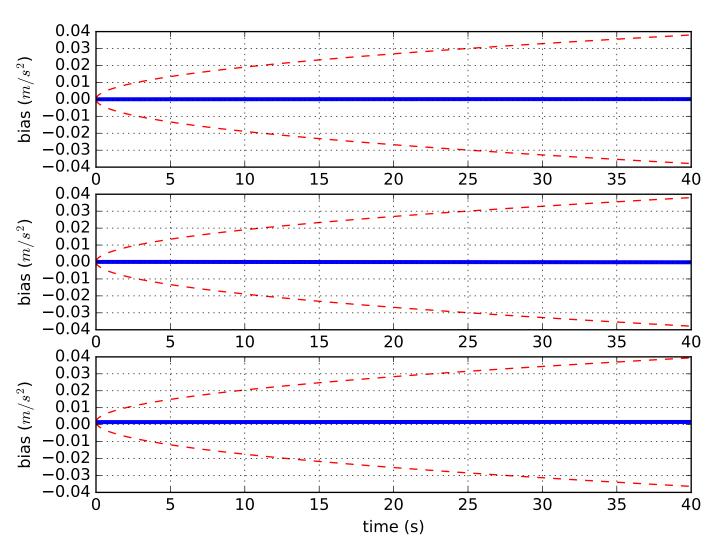
Tib



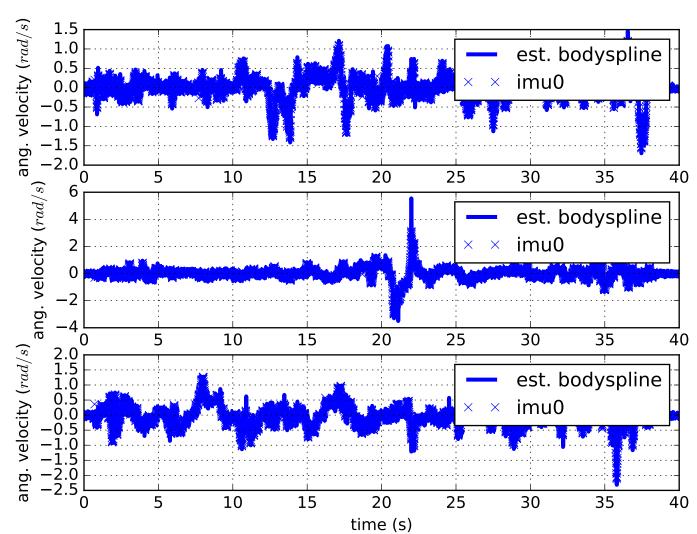
imu0: acceleration error



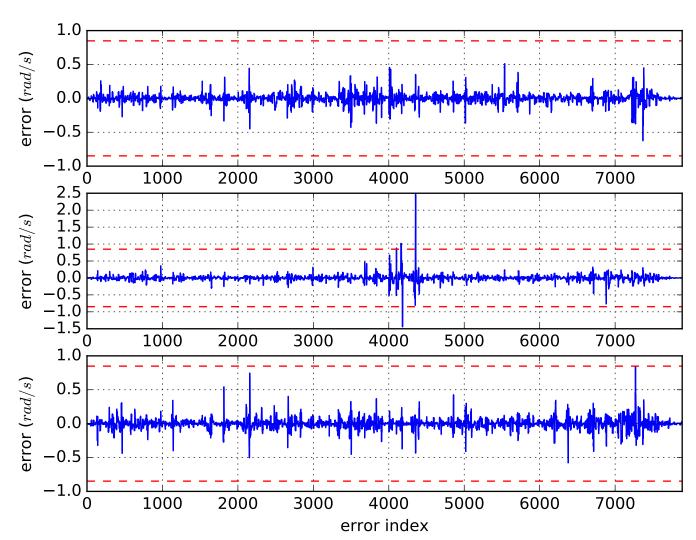
imu0: estimated accelerometer bias (imu frame)



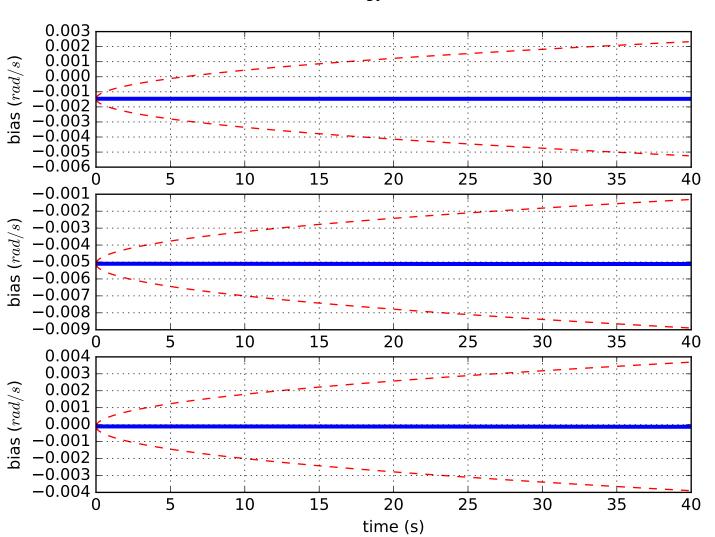
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

