```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.244917102516, median 0.194524007661, std: 0.207637128753
Gyroscope error (imu0):
                         mean 1.52671831655, median 1.21040207176, std: 2.82725513624
Accelerometer error (imu0): mean 0.501427611863, median 0.316873492129, std: 1.69852424667
Residuals
Reprojection error (cam0) [px]:
                              mean 0.244917102516, median 0.194524007661, std: 0.207637128753
Gyroscope error (imu0) [rad/s]:
                              mean 0.00431821149837, median 0.0034235340516, std: 0.00799668511593
Accelerometer error (imu0) [m/s^2]: mean 0.0567300583396, median 0.0358501432101, std: 0.192166082053
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.00123571 -0.00272642 0.99999552 0.02325144]
[-0.00306638 -0.99999159 -0.00272262 -0.00277855]
[ 0.99999454 -0.00306301 -0.00124406 -0.03651076]
١٥.
        0.
                0.
                     1.
T ic: (cam0 to imu0):
[[0.00123571 -0.00306638 0.99999454 0.03647331]
[-0.00272642 -0.99999159 -0.00306301 -0.00282697]
[ 0.99999552 -0.00272262 -0.00124406 -0.02330432]
10.
         0.
                0.
                       1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.00020885189242952584
Gravity vector in target coords: [m/s^2]
[ 0.03704581 -9.77424723 -0.79444424]
Calibration configuration
   ================
```

cam0

Camera model: pinhole Focal length: [305.94701243402363, 305.9255016888083] Principal point: [358.1988446527053, 280.09937901975894] Distortion model: equidistant Distortion coefficients: [0.027862784385873397, -0.007995187204749149, 0.013176416291364505, -0.0029001371414023426] Type: aprilgrid Tags: Rows: 6 Cols: 6 Size: 0.083 [m] Spacing 0.0249 [m] IMU configuration ============= IMU0: _____ Model: calibrated Update rate: 200.0 Accelerometer: Noise density: 0.008 Noise density (discrete): 0.11313708499 Random walk: 0.0002

Gyroscope:

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

Tib

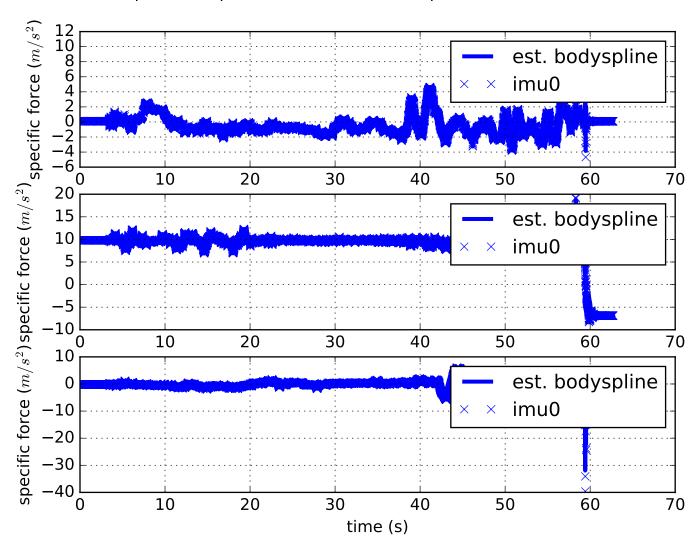
Noise density: 0.0002

Random walk: 4e-06

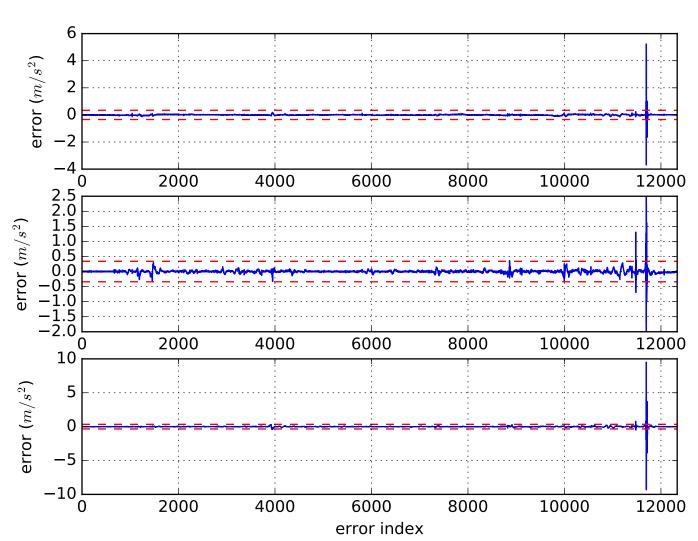
Noise density (discrete): 0.00282842712475

time offset with respect to IMU0: 0.0 [s]

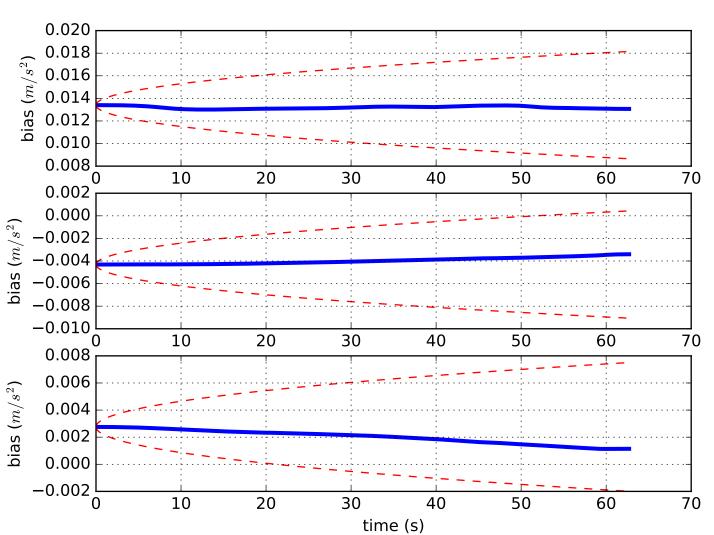
Comparison of predicted and measured specific force (imu0 frame)



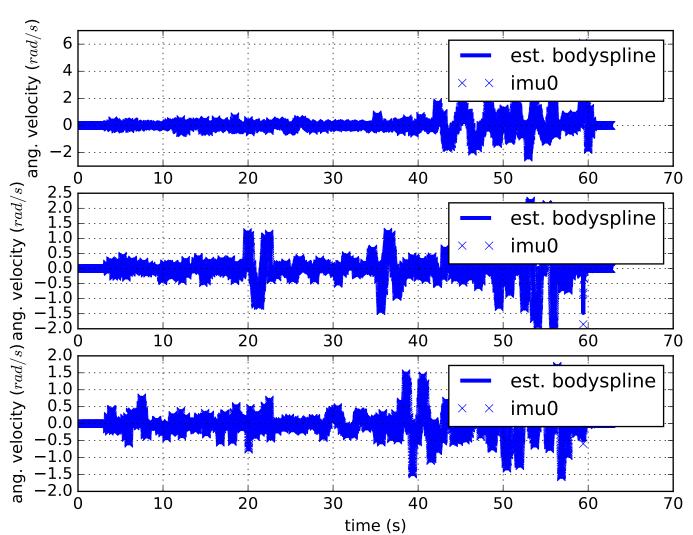
imu0: acceleration error



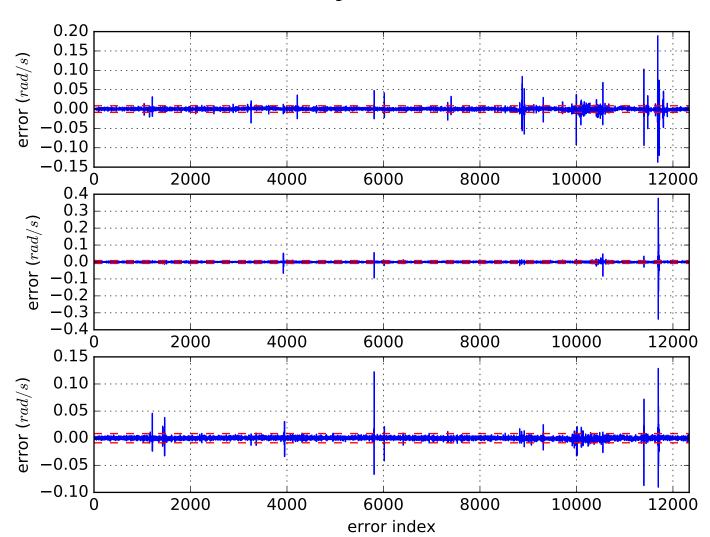
imu0: estimated accelerometer bias (imu frame)



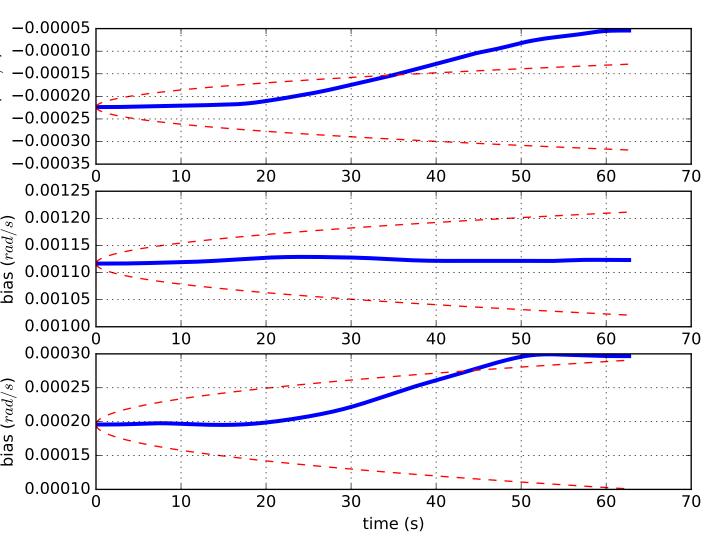
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

