```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 1.18216241539, median 1.07107408185, std: 0.696231047155
Gyroscope error (imu0):
                         mean 0.00280836879556, median 1.11945269686e-07, std: 0.0191227201698
Accelerometer error (imu0): mean 0.000144650398934, median 0.000136168489883, std: 6.88004580245e-05
Residuals
Reprojection error (cam0) [px]:
                              mean 1.18216241539, median 1.07107408185, std: 0.696231047155
Gyroscope error (imu0) [rad/s]:
                              mean 5.7571560309e-05, median 2.29487802856e-09, std: 0.000392015763482
Accelerometer error (imu0) [m/s^2]: mean 4.62881276588e-07, median 4.35739167625e-07, std: 2.20161465678e-07
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.01940655 -0.98984964 0.14078734 -0.00039117]
[-0.50752712 -0.13107538 -0.85160758 -0.00144325]
[ 0.86141721 -0.05492662 -0.50491925  0.00165203]
١٥.
         0.
                0.
                     1.
T ic: (cam0 to imu0):
[[0.01940655 -0.50752712 0.86141721 -0.00214799]
[-0.98984964 -0.13107538 -0.05492662 -0.00048563]
[ 0.14078734 -0.85160758 -0.50491925 -0.00033986]
10.
         0.
                0.
                       1. 11
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0
Gravity vector in target coords: [m/s^2]
[-1.11168994 -9.05432177 -3.59886449]
Calibration configuration
   =================
```

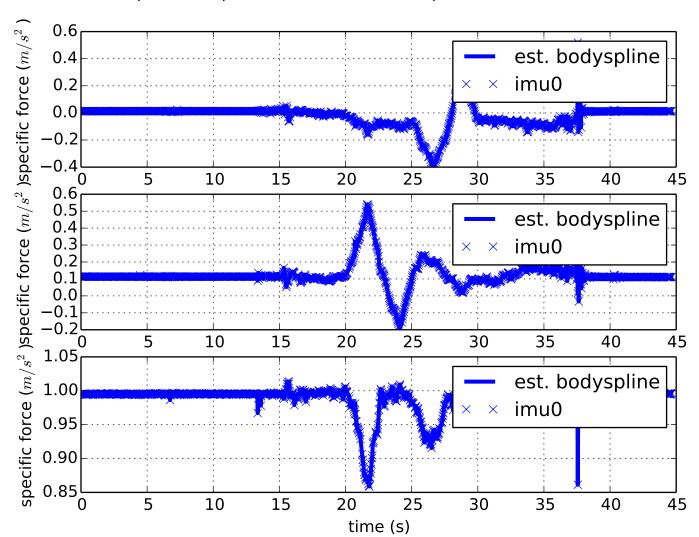
cam0

----Camera model: omni Focal length: [103.3344, 103.4761] Principal point: [163.0093, 102.9141] Omni xi: 1 Distortion model: radtan Distortion coefficients: [1.2828, 0.0304, 0.0166, -0.0138] Type: aprilgrid Tags: Rows: 6 Cols: 6 Size: 0.03 [m] Spacing 0.00999 [m] IMU configuration IMU0: -----Model: calibrated Update rate: 25 Accelerometer: Noise density: 0.00064 Noise density (discrete): 0.0032 Random walk: 8.86e-07 Gyroscope: Noise density: 0.0041 Noise density (discrete): 0.0205 Random walk: 5.7e-07 Tib [1. 0. 0. 0.][0. 1. 0. 0.]

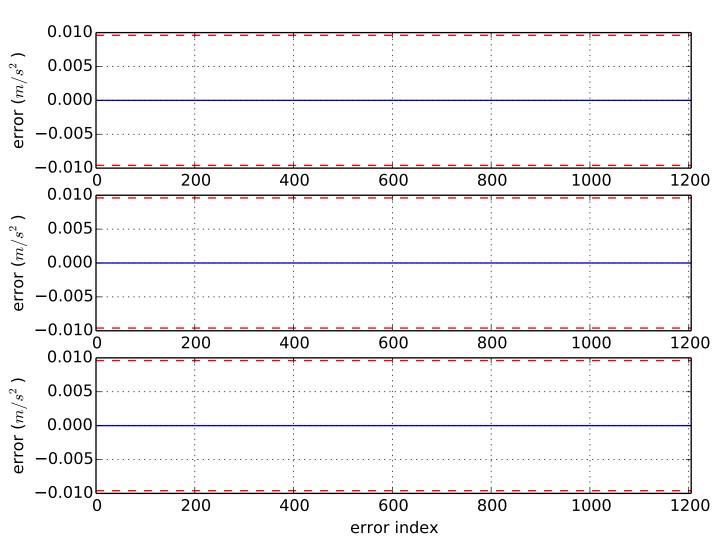
[0. 0. 1. 0.] [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

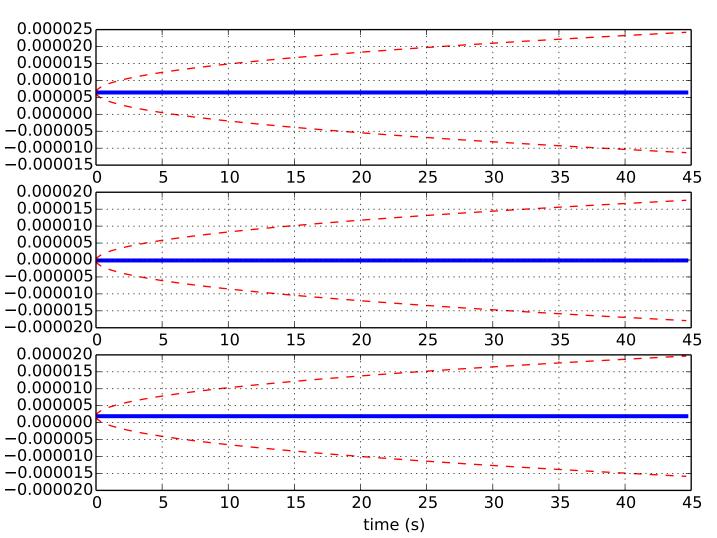
Comparison of predicted and measured specific force (imu0 frame)

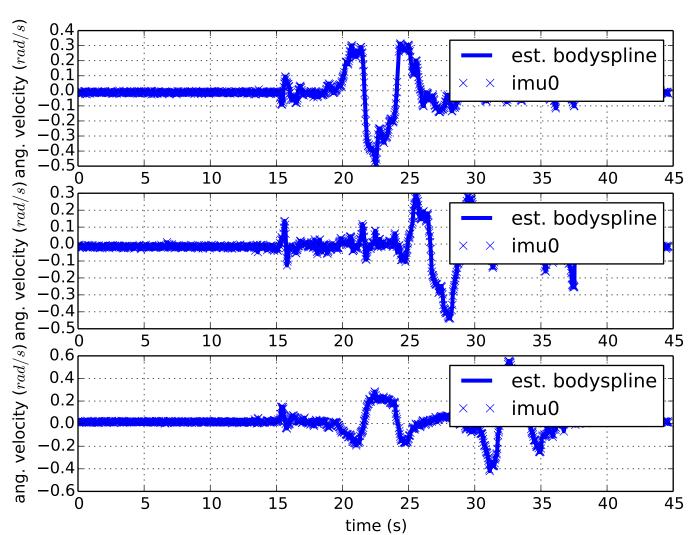


imu0: acceleration error

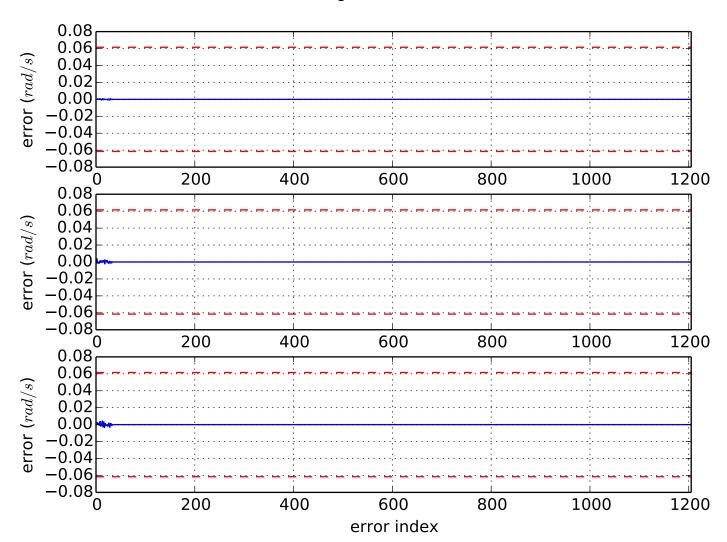


imu0: estimated accelerometer bias (imu frame)

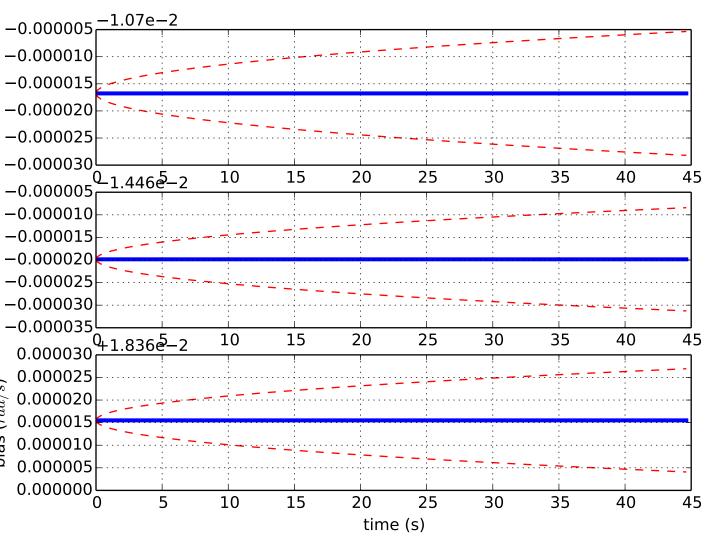




imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

