```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                         mean 0.709449942503, median 0.630775287316, std: 0.459225268192
Gyroscope error (imu0):
                         mean 0.000668866382101, median 4.05602820964e-08, std: 0.00377249586953
Accelerometer error (imu0): mean 0.000300204109229, median 0.00030030295284, std: 5.76874071182e-06
Residuals
Reprojection error (cam0) [px]:
                              mean 0.709449942503, median 0.630775287316, std: 0.459225268192
Gyroscope error (imu0) [rad/s]:
                              mean 1.37117608331e-05, median 8.31485782976e-10, std: 7.73361653255e-05
Accelerometer error (imu0) [m/s^2]: mean 9.60653149532e-07, median 9.60969449089e-07, std: 1.84599702778e-08
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.00563412 -0.99876184 -0.04942718 -0.00177196]
[-0.39605342 0.0476147 -0.91699211 0.00037397]
[ 0.91821019  0.01440936 -0.3958313 -0.00103774]
١٥.
         0.
                0.
                     1.
                             -11
T ic: (cam0 to imu0):
[[-0.00563412 -0.39605342 0.91821019 0.001091 ]
[-0.99876184 0.0476147 0.01440936 -0.00177262]
[-0.04942718 -0.91699211 -0.3958313 -0.00015543]
10.
         0.
                0.
                      1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0
Gravity vector in target coords: [m/s^2]
[ 0.6172687 -9.54429769 2.16651421]
Calibration configuration
   =================
```

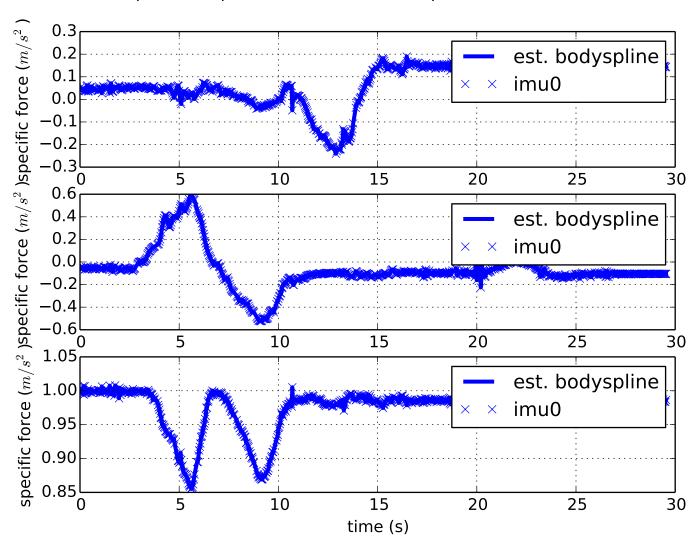
cam0

----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: 0.067 [m] Spacing 0.0199995 [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.]

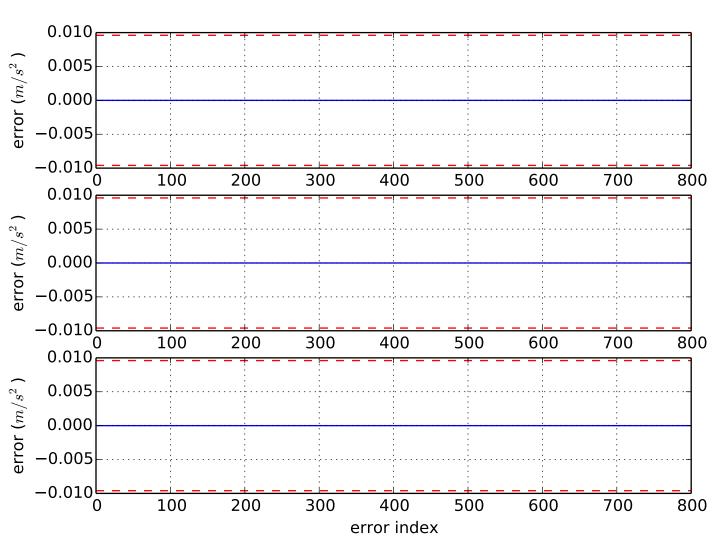
[0. 0. 1. 0.] [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

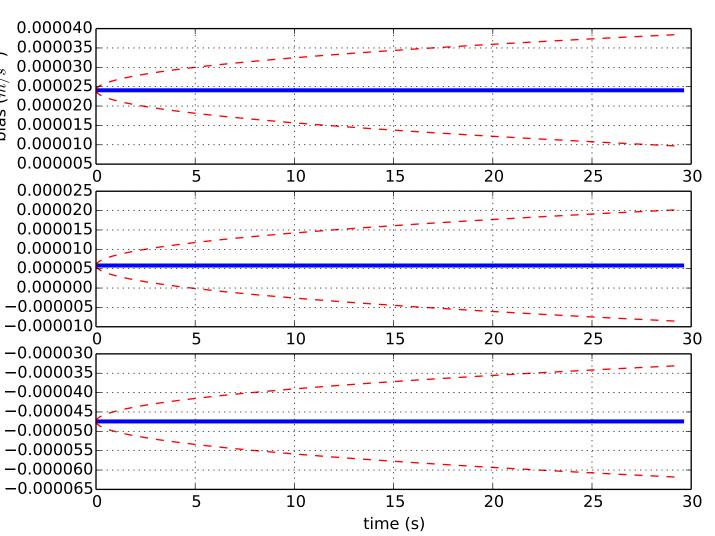
Comparison of predicted and measured specific force (imu0 frame)



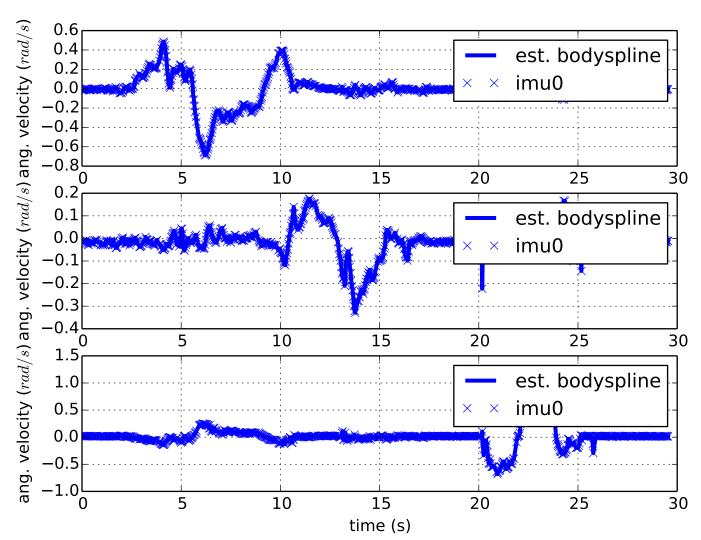
imu0: acceleration error



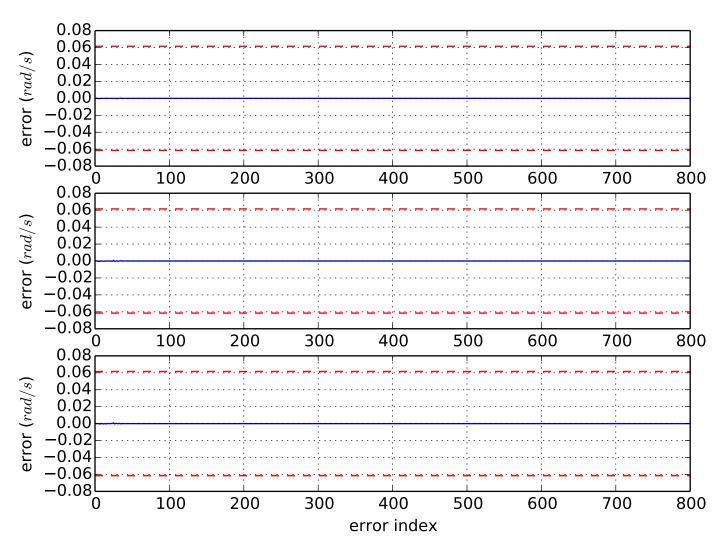
imu0: estimated accelerometer bias (imu frame)



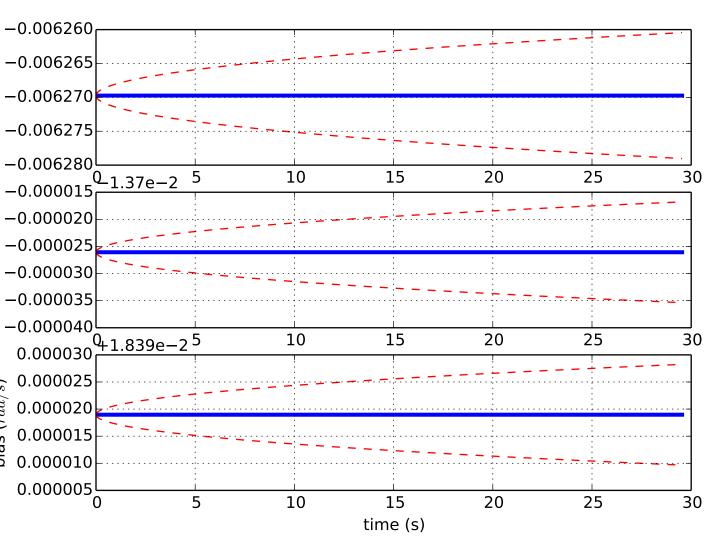
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

