```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 3.05918359636, median 2.82113023032, std: 1.67002513391
Gyroscope error (imu0):
                         mean 0.00745614718429, median 1.59298573059e-07, std: 0.0563075157854
Accelerometer error (imu0): mean 8.99055187386e-05, median 6.48262776863e-05, std: 0.000173998670602
Residuals
Reprojection error (cam0) [px]:
                              mean 3.05918359636, median 2.82113023032, std: 1.67002513391
Gyroscope error (imu0) [rad/s]:
                              mean 0.000152851017278, median 3.26562074772e-09, std: 0.0011543040736
Accelerometer error (imu0) [m/s^2]: mean 2.87697659964e-07, median 2.07444088596e-07, std: 5.56795745926e-07
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.03231081 -0.98624916 0.16207591 -0.00016046]
[-0.55482023 -0.15258008 -0.8178593 -0.00023079]
[ 0.8313426 -0.06349729 -0.55212098 -0.00080632]
١٥.
         0.
                0.
                     1.
T ic: (cam0 to imu0):
[[0.03231081 -0.55482023 0.8313426 0.00054747]
[-0.98624916 -0.15258008 -0.06349729 -0.00024467]
[ 0.16207591 -0.8178593 -0.55212098 -0.00060794]
10.
         0.
                0.
                       1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0
Gravity vector in target coords: [m/s^2]
[-1.09843455 -9.74177675 -0.24423387]
Calibration configuration
   =================
```

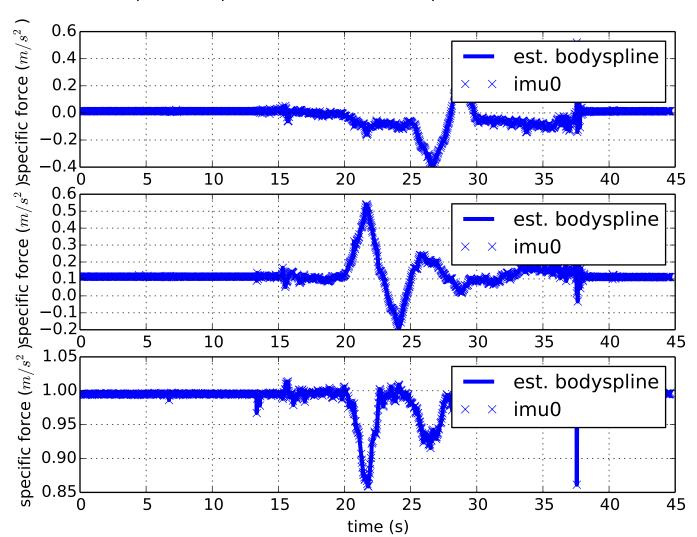
cam0

----Camera model: omni Focal length: [207.06448, 206.66068] Principal point: [324.838, 208.3764] Omni xi: 1 Distortion model: radtan Distortion coefficients: [1.2828, 0.0108, -0.02, 0.0167] 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

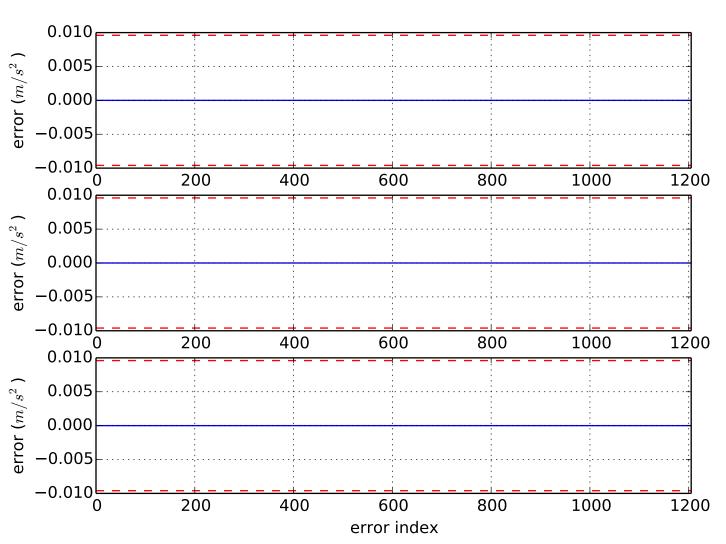
[[1. 0. 0. 0.] [0. 1. 0. 0.] [0. 0. 1. 0.] [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

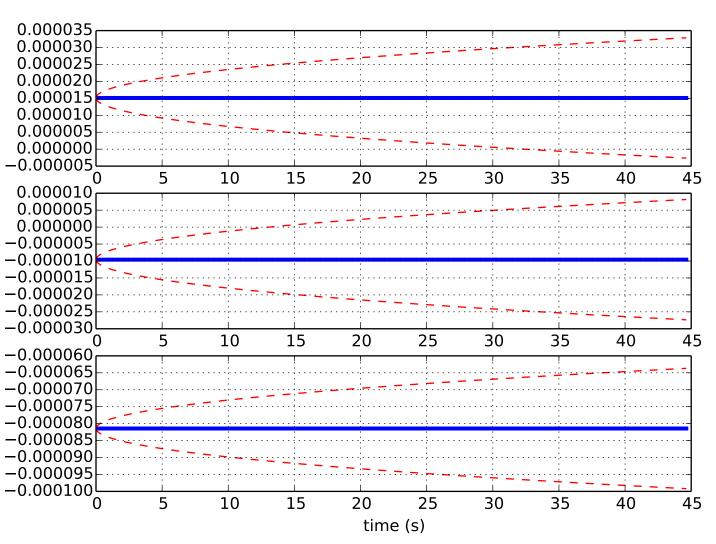
Comparison of predicted and measured specific force (imu0 frame)

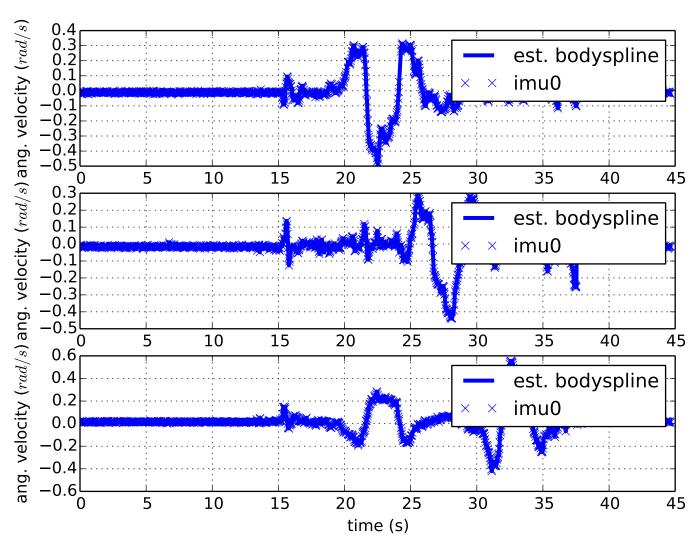


imu0: acceleration error

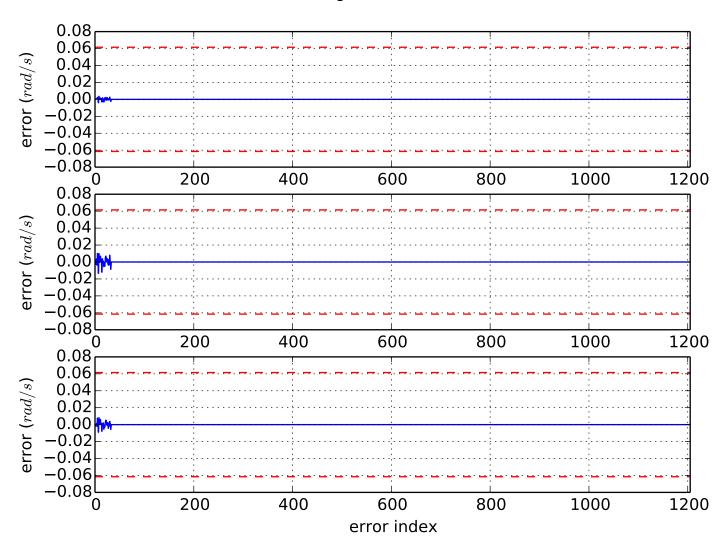


imu0: estimated accelerometer bias (imu frame)

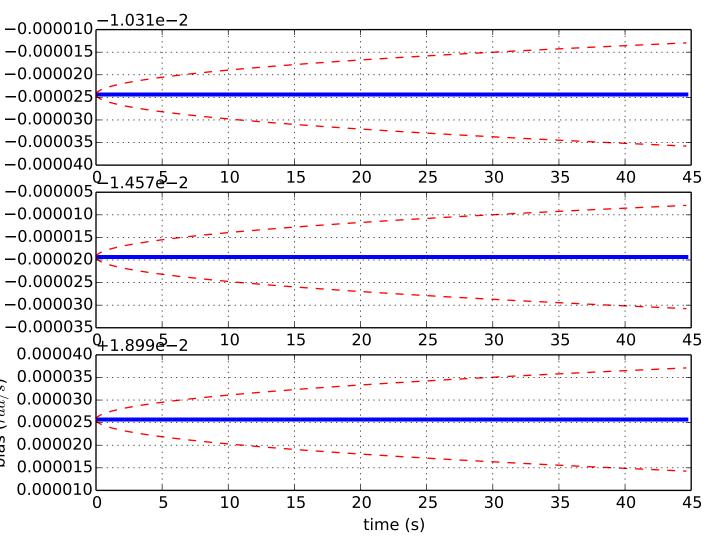




imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

