```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                        mean 1.97235813951, median 1.49951449429, std: 1.61988477771
Gyroscope error (imu0):
                        mean 0.690088159934, median 0.620877341523, std: 0.375157156463
Accelerometer error (imu0): mean 1.5250178101, median 1.12346002274, std: 1.21648803954
Residuals
Reprojection error (cam0) [px]:
                            mean 1.97235813951, median 1.49951449429, std: 1.61988477771
Gyroscope error (imu0) [rad/s]:
                            mean 0.000850252366283, median 0.000764978244015, std: 0.000462228275357
Accelerometer error (imu0) [m/s^2]: mean 0.0271294732795, median 0.0199859165353, std: 0.0216408487461
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.99970154 0.00836096 0.02295488 0.03199641]
[ 0.00787798 -0.99974737  0.0210507  0.00010539]
١٥.
        0.
               0.
                    1.
T ic: (cam0 to imu0):
[[0.99970154 0.00787798 0.02312508 -0.03202685]
[ 0.00836096 -0.99974737 -0.02086358 -0.00012684]
[ 0.02295488  0.0210507  -0.99951485  0.00095549]
                     1. 11
10.
        0.
               0.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
-0.0553047783851
Gravity vector in target coords: [m/s^2]
[-0.18778266 9.66680596 -1.6389091 ]
Calibration configuration
   ================
```

cam0

Camera model: pinhole Focal length: [3512.9804344883687, 3515.7691715628425] Principal point: [1767.404360690051, 2373.26776919397] Distortion model: radtan Distortion coefficients: [0.054035310809794915, -0.06459059122466279, 0.001764042666214944, 0.002933604813141197] Type: checkerboard Rows Count: 7 Distance: 0.03 [m] Cols Count: 6 Distance: 0.03 [m] IMU configuration IMU0: -----Model: calibrated Update rate: 101.703460693 Accelerometer: Noise density: 0.001764 Noise density (discrete): 0.0177896107834

Random walk: 0.001764

Noise density: 0.00012217304764 Noise density (discrete): 0.0012320923842

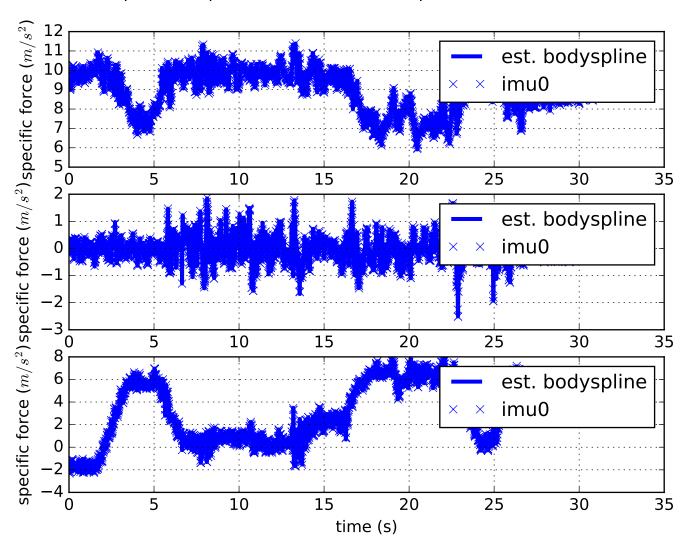
Random walk: 0.00012217304764

time offset with respect to IMU0: 0.0 [s]

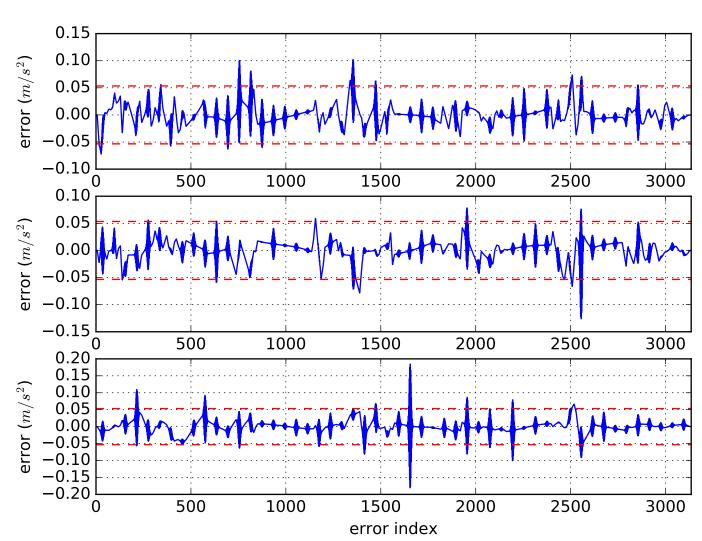
Gyroscope:

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

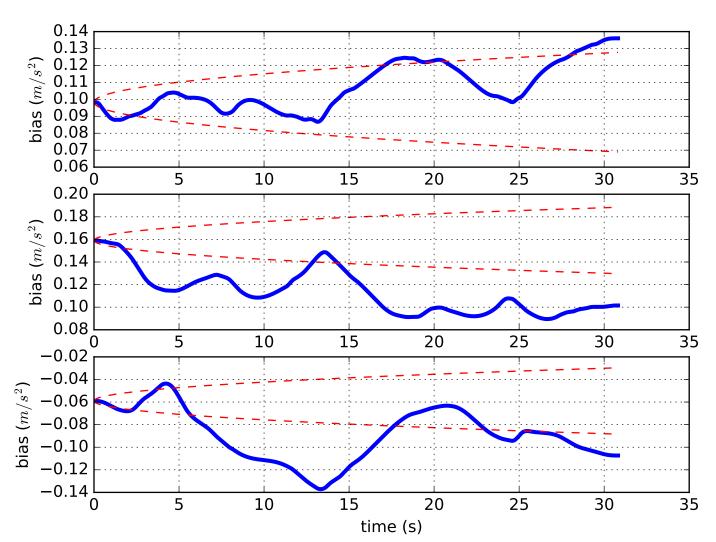
Tib



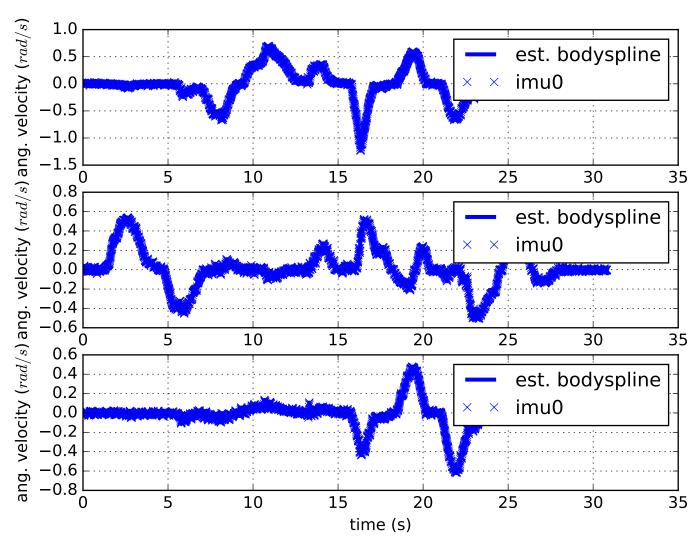
imu0: acceleration error



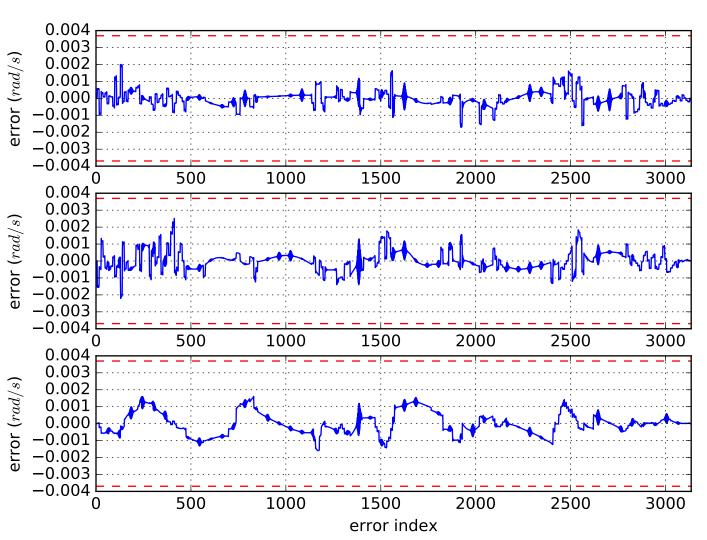
imu0: estimated accelerometer bias (imu frame)



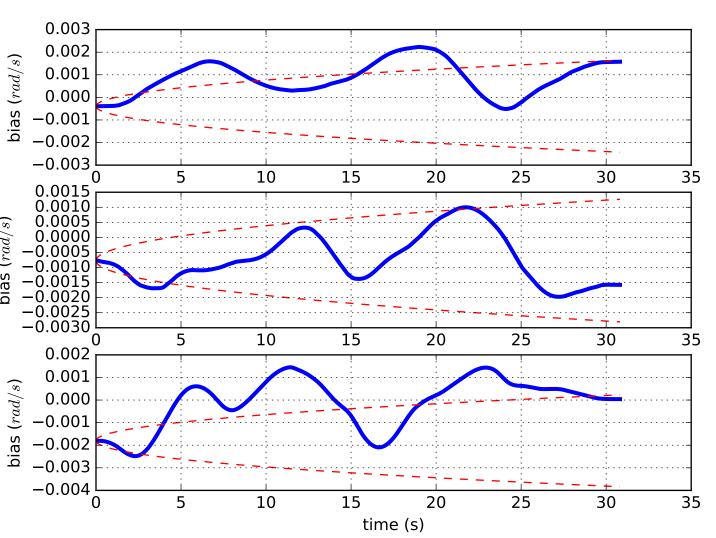
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

