```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.279165781384, median 0.212257456285, std: 0.258279135014
Gyroscope error (imu0):
                         mean 1.49957997732, median 1.23858269416, std: 1.7339556053
Accelerometer error (imu0): mean 0.486836986629, median 0.35659208034, std: 0.45745123439
Residuals
Reprojection error (cam0) [px]:
                              mean 0.279165781384, median 0.212257456285, std: 0.258279135014
Gyroscope error (imu0) [rad/s]:
                              mean 0.00424145268358, median 0.00350324088842, std: 0.00490436706713
Accelerometer error (imu0) [m/s^2]: mean 0.0550793175325, median 0.0403437885001, std: 0.0517546991839
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.00384277 -0.00588274 0.99997531 0.01880944]
[-0.0036445 -0.99997597 -0.00589675 -0.00655138]
[ 0.99998598 -0.00366707  0.00382124 -0.03096996]
[ 0.
         0.
                0.
                     1.
T ic: (cam0 to imu0):
[[-0.00384277 -0.0036445  0.99998598  0.03101793]
[-0.00588274 -0.99997597 -0.00366707 -0.00655414]
[ 0.99997531 -0.00589675  0.00382124 -0.01872927]
                      1. 11
10.
         0.
                0.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
-0.0002461323706023885
Gravity vector in target coords: [m/s^2]
[ 0.04061474 -9.77218151 -0.81929355]
Calibration configuration
   ================
```

cam0

Camera model: pinhole Focal length: [305.0071852594656, 304.9990337382335] Principal point: [358.6141807078531, 279.8744845100453] Distortion model: equidistant Distortion coefficients: [0.022686521839611323, 0.0035957892235648835, 0.004473372648469369, -0.00011915689410269171] 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

Noise density: 0.0002

Random walk: 4e-06

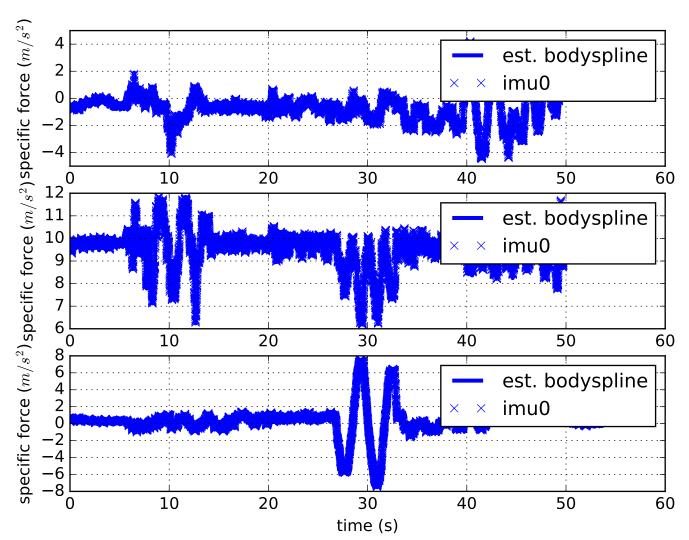
Noise density (discrete): 0.00282842712475

time offset with respect to IMU0: 0.0 [s]

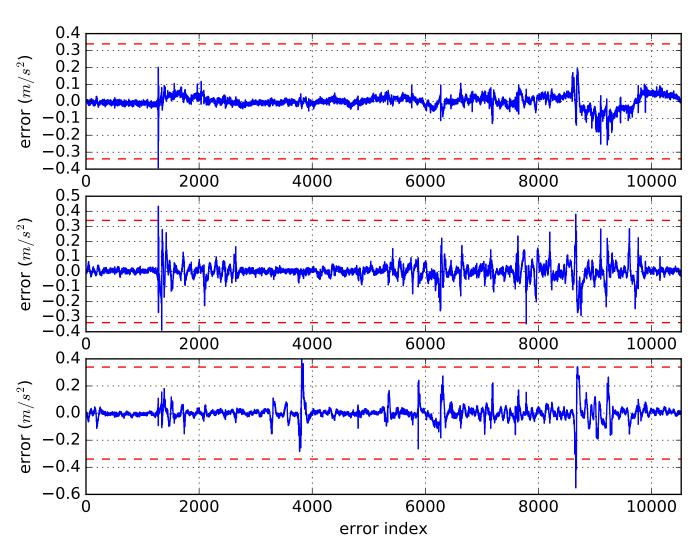
Gyroscope:

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

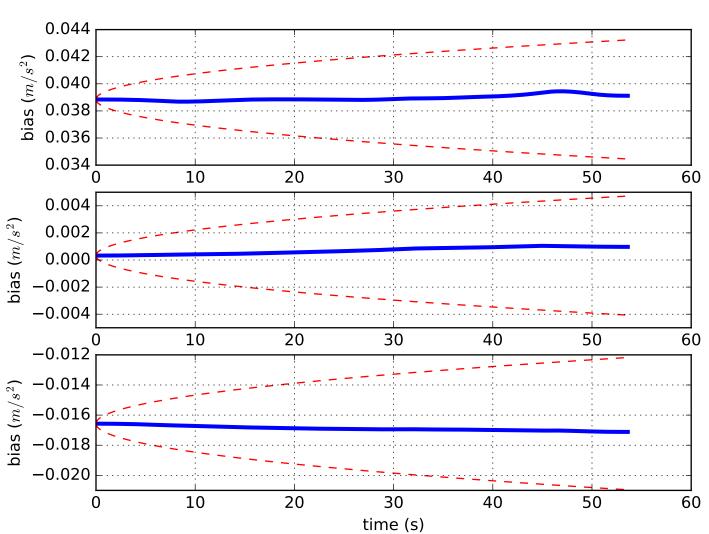
Tib



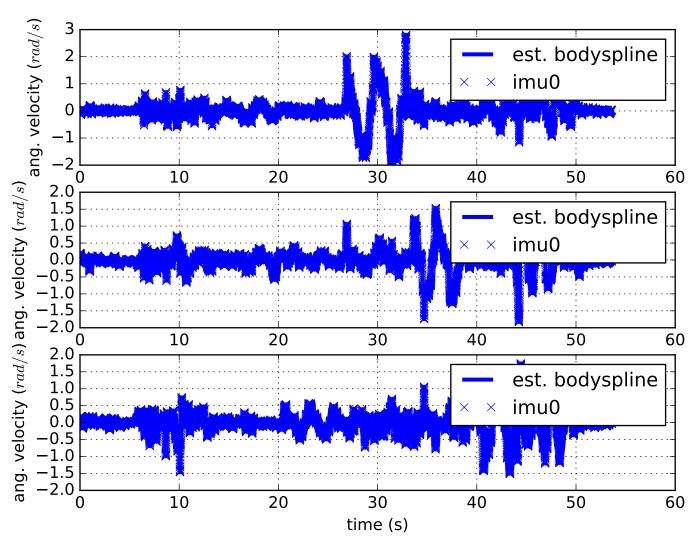
imu0: acceleration error



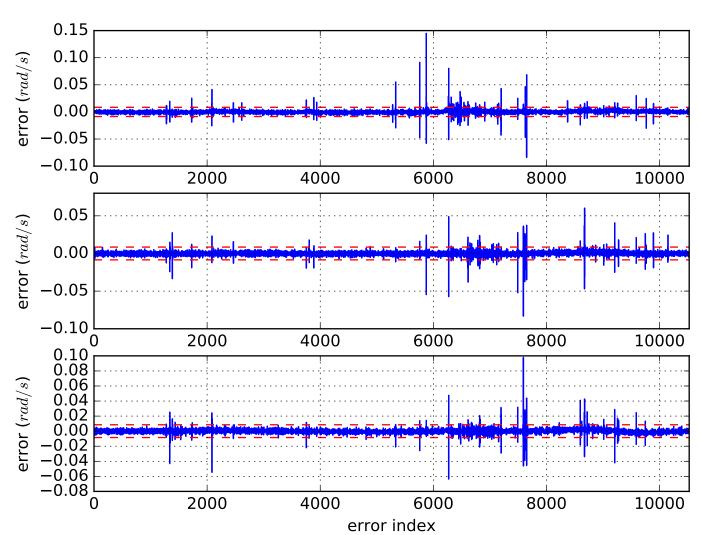
imu0: estimated accelerometer bias (imu frame)



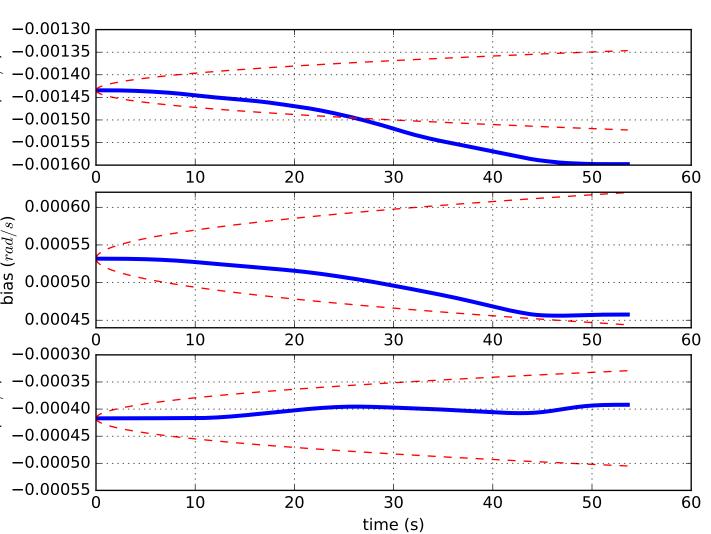
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

