```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                        mean 2.81276858613, median 2.32526904476, std: 1.9721988423
Gyroscope error (imu0):
                        mean 3.15831075214, median 2.32875953033, std: 2.66288414331
Accelerometer error (imu0): mean 6.2813583048, median 3.95178332283, std: 6.58220941829
Residuals
Reprojection error (cam0) [px]:
                            mean 2.81276858613, median 2.32526904476, std: 1.9721988423
Gyroscope error (imu0) [rad/s]:
                            mean 0.223326294993. median 0.164668165565. std: 0.188294343525
Accelerometer error (imu0) [m/s^2]: mean 0.888318210477, median 0.55886655707, std: 0.930864982973
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.97166907 0.06838402 0.22623625 -0.10022525]
[-0.21395734 0.15214765 -0.96492142 0.0088888 ]
[-0.10040652 -0.98598921 -0.1332059 0.40897504]
١٥.
        0.
               0.
                    1.
                            11
T ic: (cam0 to imu0):
[[-0.97166907 -0.21395734 -0.10040652 -0.05442019]
[ 0.06838402  0.15214765 -0.98598921  0.40874637]
10.
        0.
               0.
                      1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
-0.0920722908148
Gravity vector in target coords: [m/s^2]
[-2.2358333 -9.53787533 -0.44542851]
Calibration configuration
   ================
```

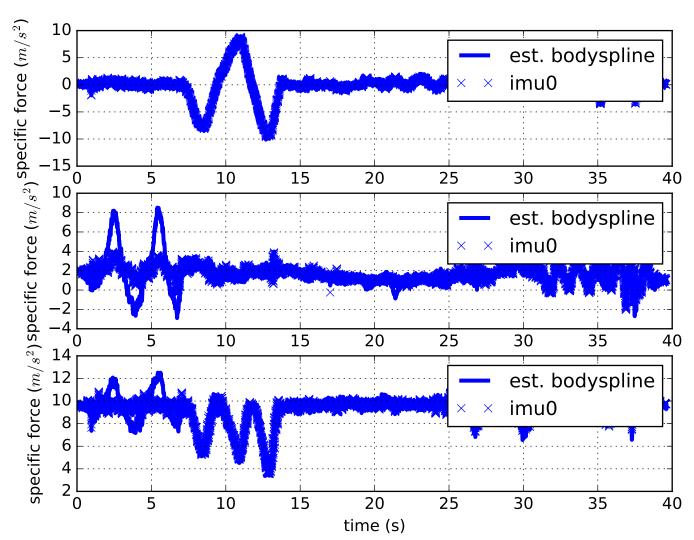
cam0

Camera model: pinhole Focal length: [2161.3395074156847, 2190.920827821171] Principal point: [325.8861977646777, 323.8297982783892] Distortion model: equidistant Distortion coefficients: [18.565119463127647, -2681.9977003495283, 199980.65529909782, -4717066.369676423] 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: 0.01 Noise density (discrete): 0.141421356237 Random walk: 0.0002 Gyroscope: Noise density: 0.005 Noise density (discrete): 0.0707106781187 Random walk: 4e-06 Tib

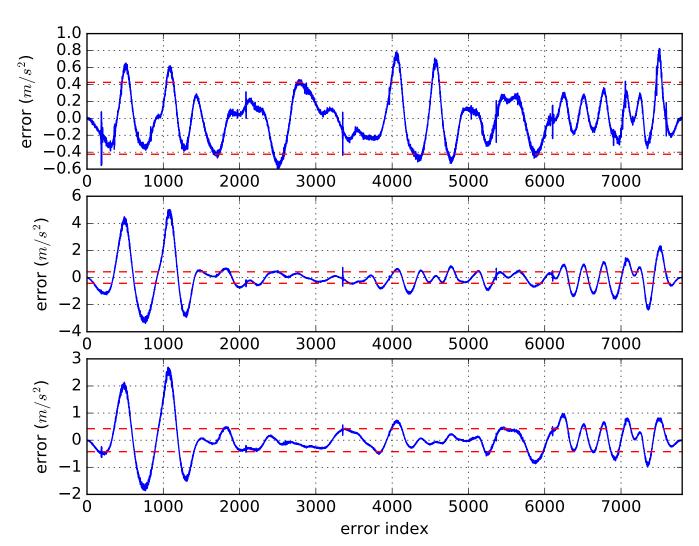
[[1. 0. 0. 0.] [0. 1. 0. 0.] [0. 0. 1. 0.] [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

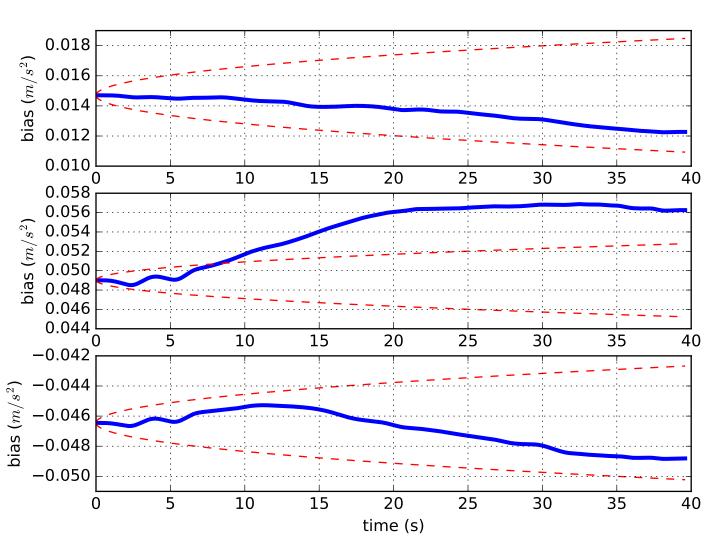
Comparison of predicted and measured specific force (imu0 frame)



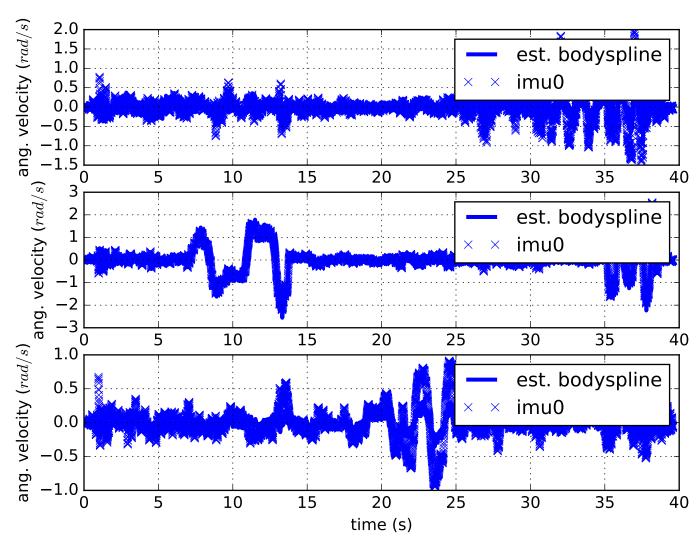
imu0: acceleration error



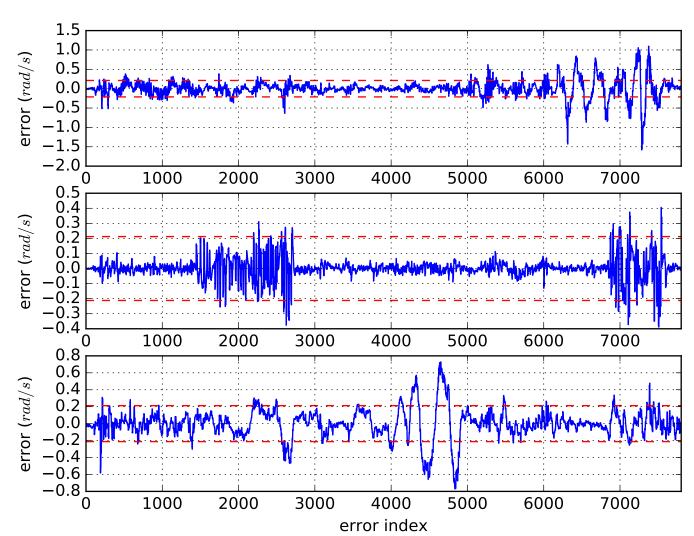
imu0: estimated accelerometer bias (imu frame)



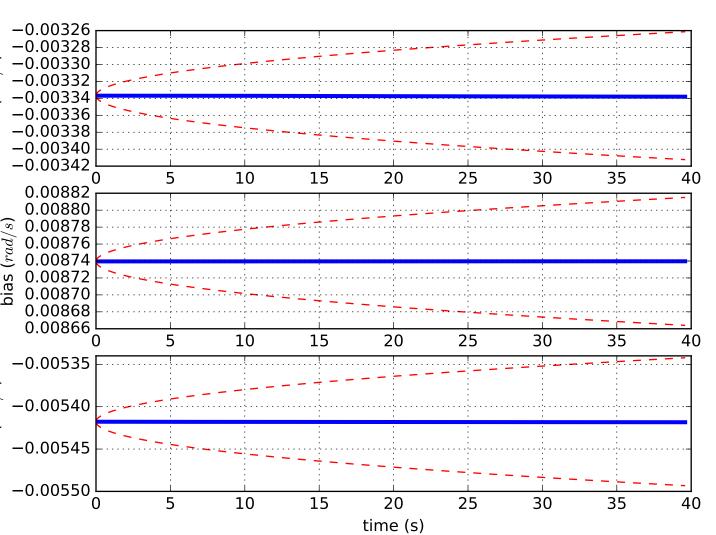
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

