```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                         mean 1.91342213567, median 1.66940737774, std: 1.31772463985
Gyroscope error (imu0):
                         mean 0.000650883369293, median 4.06631188614e-08, std: 0.00461701503366
Accelerometer error (imu0): mean 0.000233800411951, median 0.000236739104959, std: 1.63477268265e-05
Residuals
Reprojection error (cam0) [px]:
                              mean 1.91342213567, median 1.66940737774, std: 1.31772463985
Gyroscope error (imu0) [rad/s]:
                              mean 1.33431090705e-05, median 8.33593936658e-10, std: 9.46488081901e-05
Accelerometer error (imu0) [m/s^2]: mean 7.48161318245e-07, median 7.5756513587e-07, std: 5.23127258447e-08
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.0877146 -0.98924242 -0.11707083 0.00037449]
[-0.47429039 0.14482152 -0.86837512 -0.00003595]
[ 0.87598789 -0.02064361 -0.48189113 -0.00240202]
10.
         0.
                0.
                     1.
T ic: (cam0 to imu0):
[[-0.0877146 -0.47429039 0.87598789 0.00211994]
[-0.98924242 0.14482152 -0.02064361 0.00032608]
[-0.11707083 -0.86837512 -0.48189113 -0.00114488]
10.
         0.
                0.
                      1.
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0
Gravity vector in target coords: [m/s^2]
[ 0.91648205 -9.50205071 -2.24488658]
Calibration configuration
   =================
```

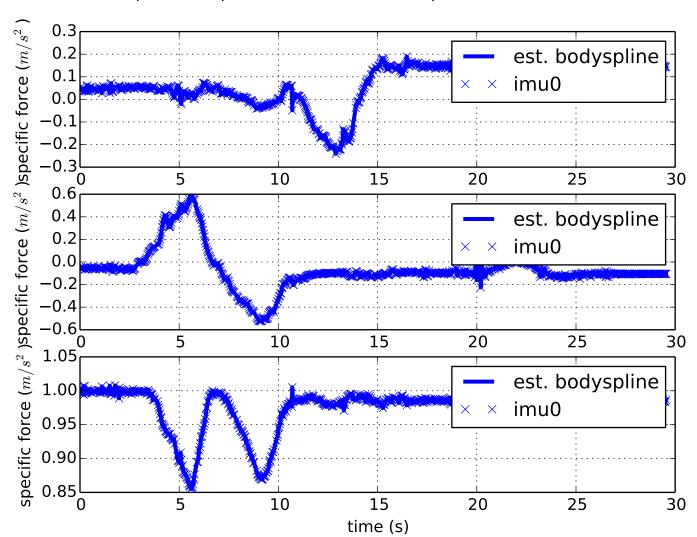
cam0

----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: 0.067 [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

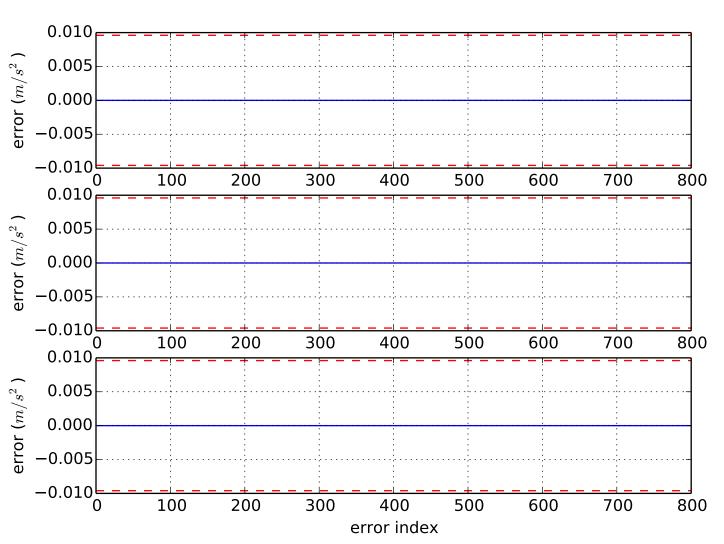
[[1. 0. 0. 0.] [0. 1. 0. 0.] [0. 0. 1. 0.] [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

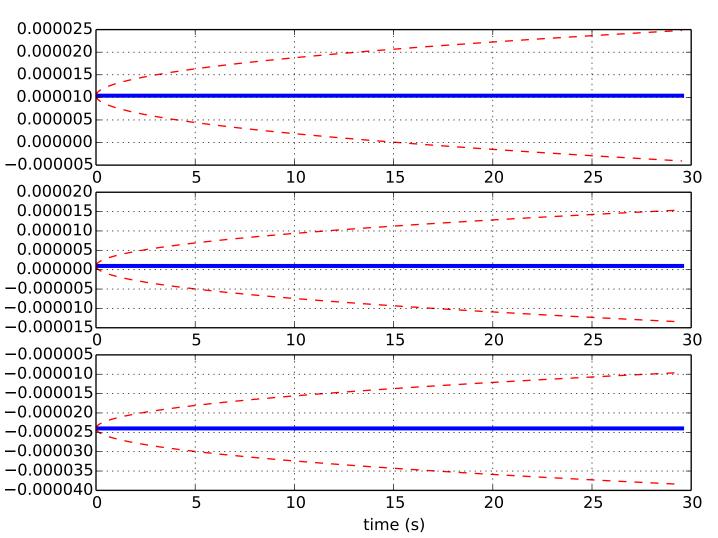
Comparison of predicted and measured specific force (imu0 frame)



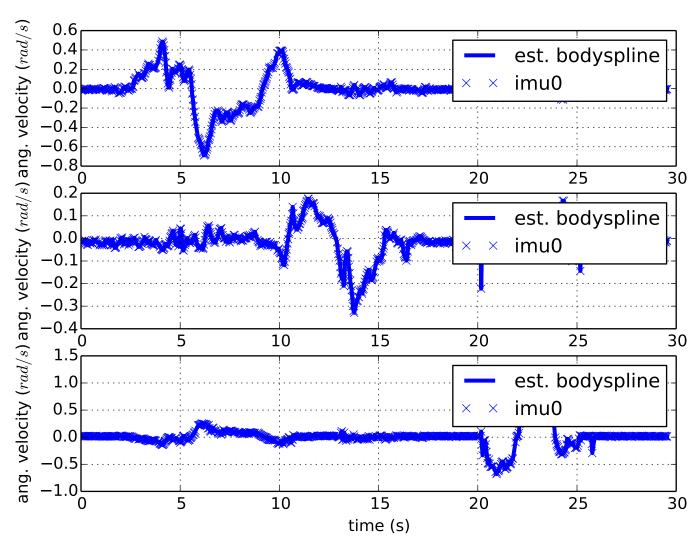
imu0: acceleration error



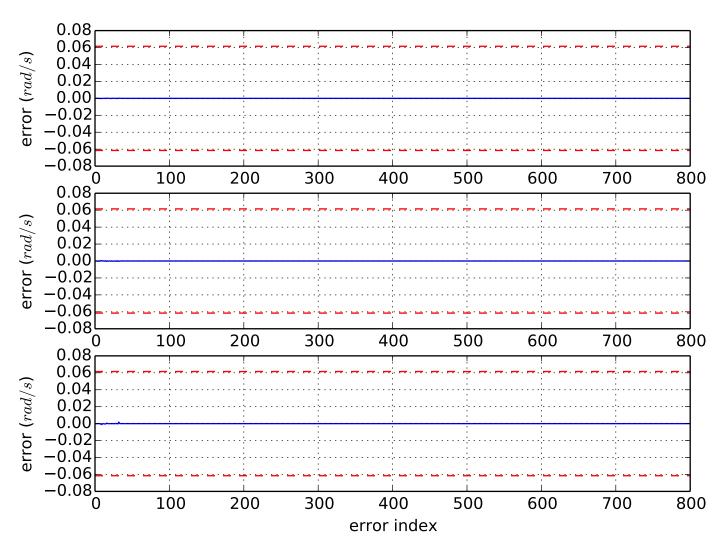
imu0: estimated accelerometer bias (imu frame)



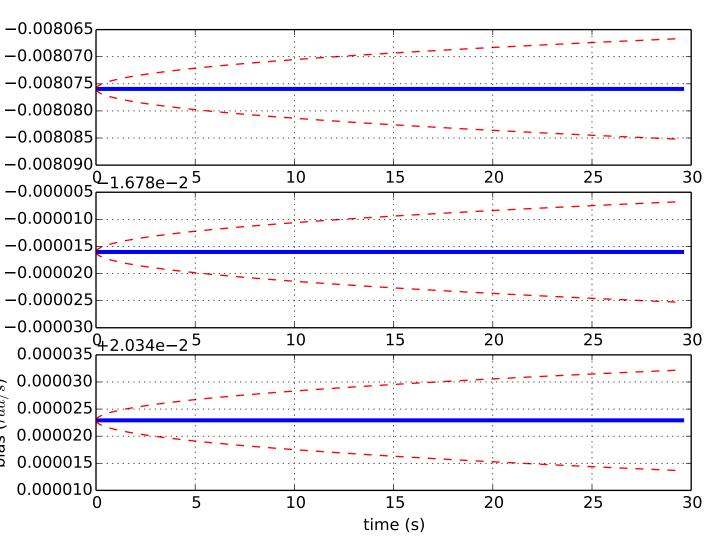
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

