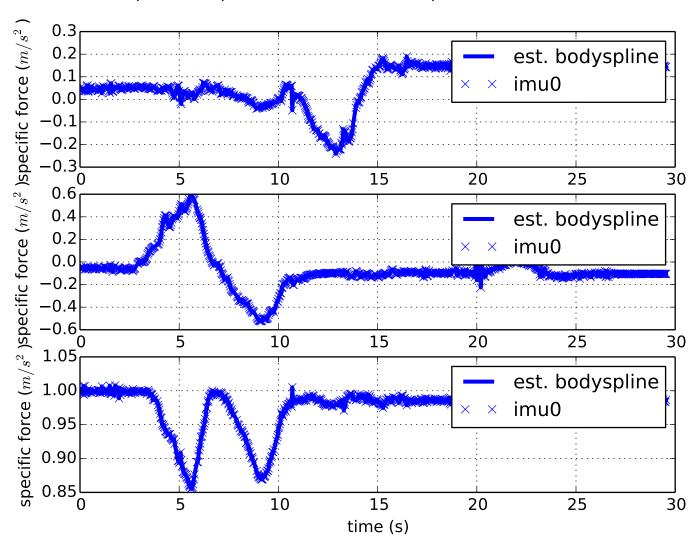
| Calibration results  |
|--|
| Normalized Residuals   |
| Reprojection error (cam0): mean 0.250575287188, median 0.20346032422, std: 0.223865639665<br>Gyroscope error (imu0): mean 0.000281467330178, median 6.93985273326e-08, std: 0.00149100781219<br>Accelerometer error (imu0): mean 0.000502606538171, median 0.000503200728406, std: 3.43154765244e-06                               |
| Residuals  |
| Reprojection error (cam0) [px]:     mean 0.250575287188, median 0.20346032422, std: 0.223865639665<br>Gyroscope error (imu0) [rad/s]:     mean 6.32080624351e-06, median 1.55845669399e-09, std: 3.34830030982e-05<br>Accelerometer error (imu0) [m/s^2]: mean 1.76184920644e-06, median 1.76393209537e-06, std: 1.20290307609e-08 |
| Transformation (cam0):   |
| T_ci: (imu0 to cam0):<br>[[-0.00963161 -0.99951489 -0.02961792 0.00027807]<br>[-0.04145916 0.02999299 -0.99868992 -0.00116448]<br>[ 0.99909377 -0.00839106 -0.04172793 0.00064143]<br>[ 0.   |
| T_ic: (cam0 to imu0):<br>[[-0.00963161 -0.04145916 0.99909377 -0.00068645]<br>[-0.99951489 0.02999299 -0.00839106 0.00031824]<br>[-0.02961792 -0.99868992 -0.04172793 -0.00112795]<br>[ 0.   |
| timeshift cam0 to imu0: [s] (t_imu = t_cam + shift)<br>0.0   |
| Gravity vector in target coords: [m/s^2]<br>[-0.2183502 -9.77897818 -0.70166366]   |
| Calibration configuration  |

cam0

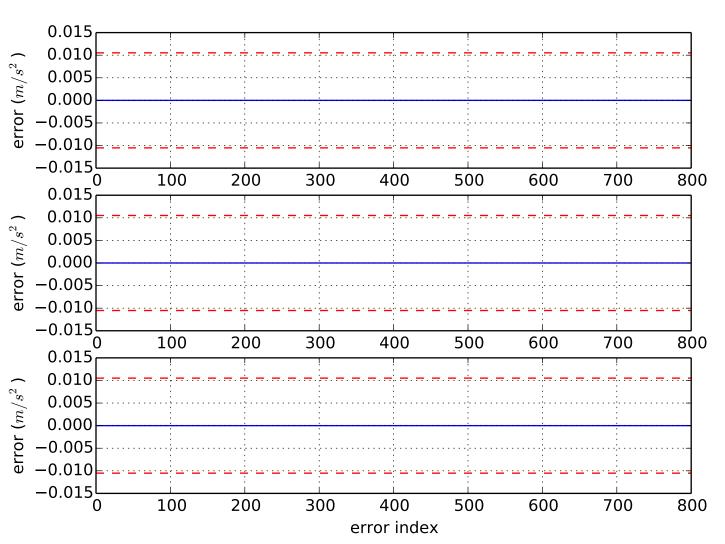
```
Camera model: omni
 Focal length: [822.8369, 824.154721]
 Principal point: [322.830094, 203.9253462]
 Omni xi: 3.28244682
 Distortion model: radtan
 Distortion coefficients: [0.8560437616, 17.43165613, 0.0, 0.0]
 Type: aprilgrid
 Tags:
  Rows: 6
  Cols: 6
  Size: 0.067 [m]
  Spacing 0.0199995 [m]
IMU configuration
IMU0:
-----
 Model: calibrated
 Update rate: 30.0
 Accelerometer:
  Noise density: 0.00064
  Noise density (discrete): 0.00350542436803
  Random walk: 8.86e-07
 Gyroscope:
  Noise density: 0.0041
  Noise density (discrete): 0.0224566248577
  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]

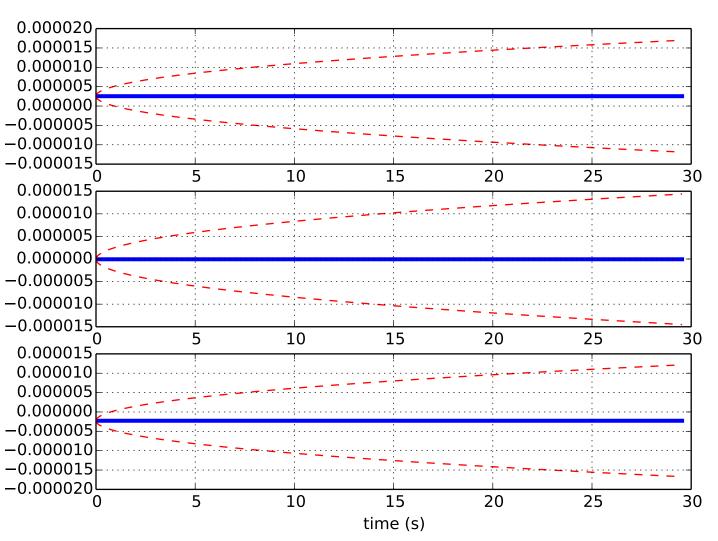
Comparison of predicted and measured specific force (imu0 frame)



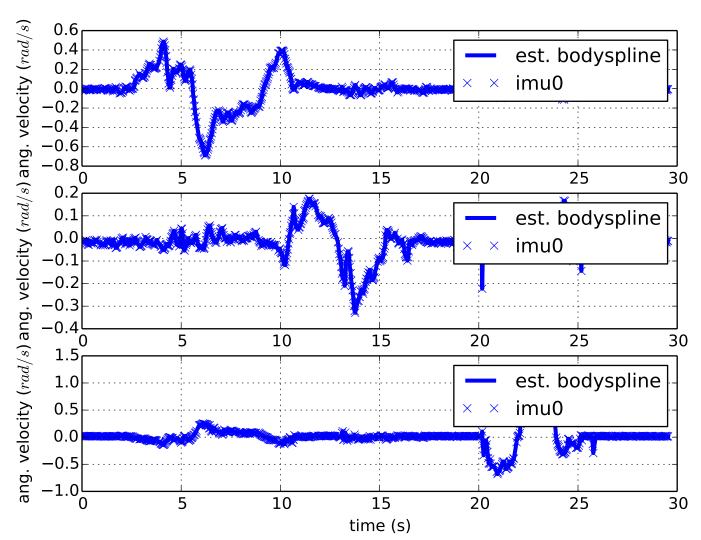
imu0: acceleration error



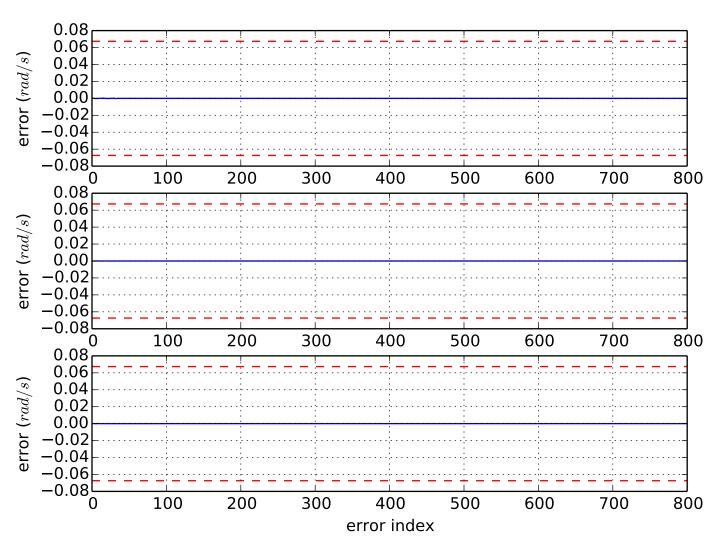
imu0: estimated accelerometer bias (imu frame)



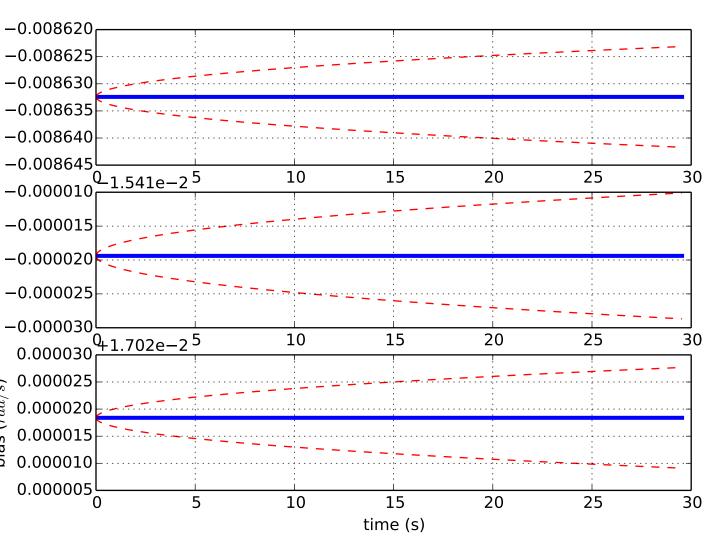
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

