```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                         mean 0.532236405779, median 0.53244401503, std: 0.177422173949
Gyroscope error (imu0):
                         mean 0.000675196298145, median 2.21048026349e-08, std: 0.00449623936442
Accelerometer error (imu0): mean 0.000165164292637, median 0.000166981803013, std: 1.13862284567e-05
Residuals
Reprojection error (cam0) [px]:
                              mean 0.532236405779, median 0.53244401503, std: 0.177422173949
Gyroscope error (imu0) [rad/s]:
                              mean 1.3841524112e-05, median 4.53148454015e-10, std: 9.21729069706e-05
Accelerometer error (imu0) [m/s^2]: mean 5.28525736438e-07, median 5.34341769641e-07, std: 3.64359310615e-08
Transformation (cam0):
T ci: (imu0 to cam0):
[[-0.01949301 -0.99943288 0.02745798 -0.00019846]
[-0.05660294 -0.026316 -0.99804989 -0.00034841]
[ 0.99820646 -0.0210092 -0.05605786  0.00001429]
10.
         0.
                0.
                    1.
T ic: (cam0 to imu0):
[[-0.01949301 -0.05660294 0.99820646 -0.00003785]
[-0.99943288 -0.026316 -0.0210092 -0.00020722]
[ 0.02745798 -0.99804989 -0.05605786 -0.00034148]
10.
        0.
                0.
                      1. 11
timeshift cam0 to imu0: [s] (t imu = t cam + shift)
0.0
Gravity vector in target coords: [m/s^2]
[ 0.24571119 -9.76357697  0.88352348]
Calibration configuration
   =================
```

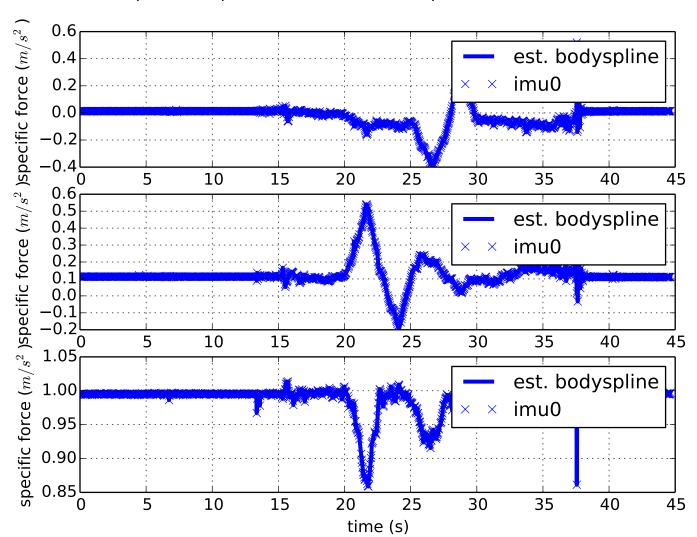
cam0

```
----
 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: 0.03 [m]
  Spacing 0.00999 [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.]
```

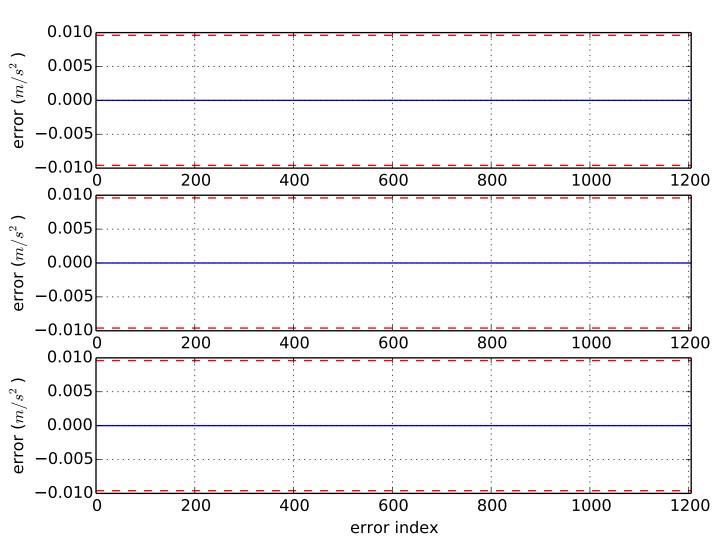
[0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

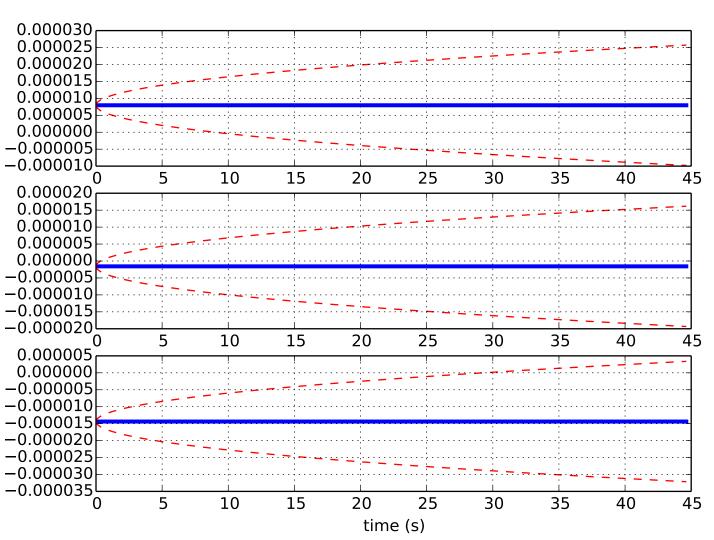
Comparison of predicted and measured specific force (imu0 frame)

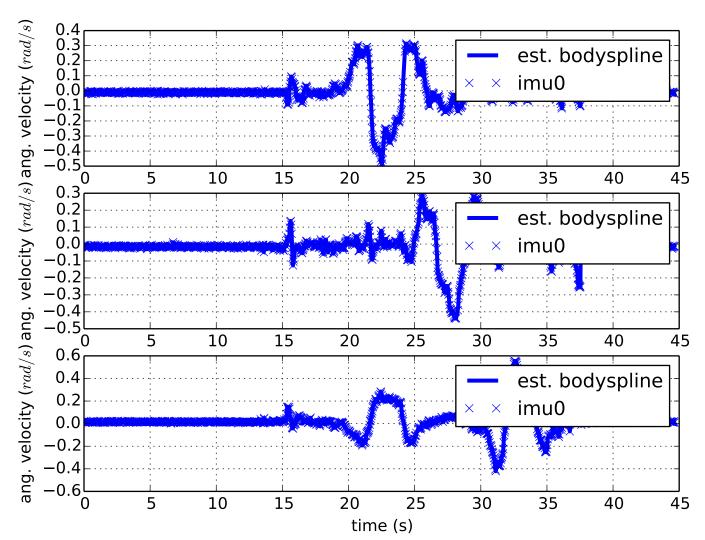


imu0: acceleration error

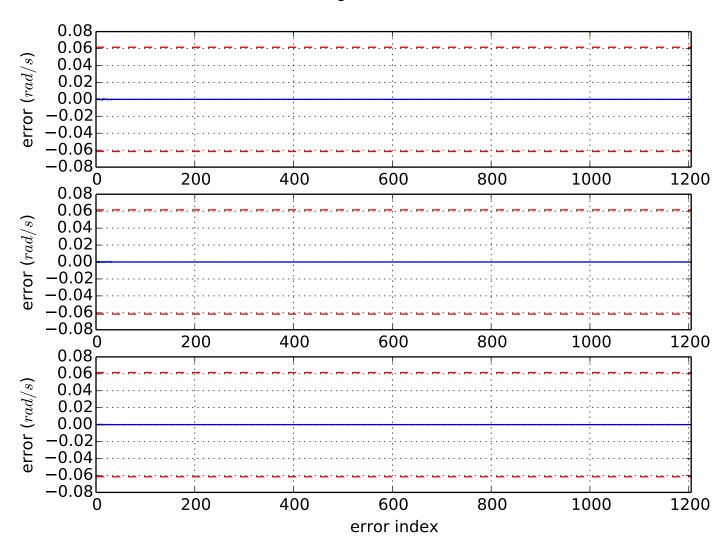


imu0: estimated accelerometer bias (imu frame)

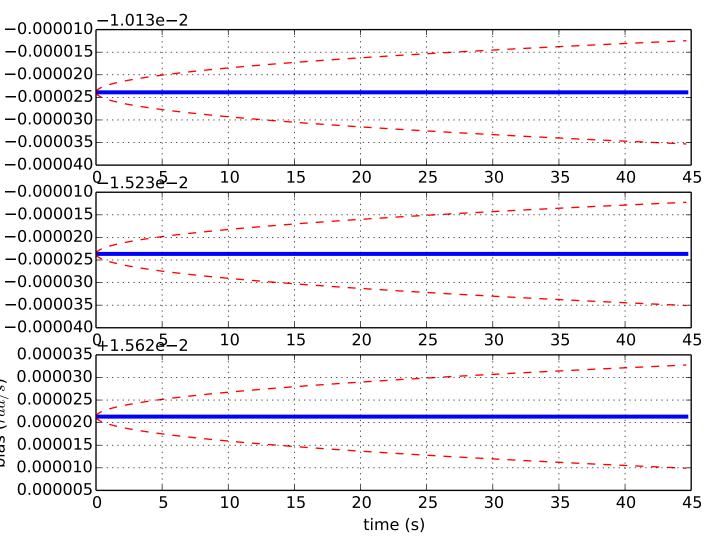




imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

