```
Calibration results
______
Normalized Residuals
_____
Reprojection error (cam0):
                         mean 0.394806814333, median 0.298034866683, std: 0.33469033674
Gyroscope error (imu0):
                         mean 0.402020401631, median 0.354353330375, std: 0.239037518976
Accelerometer error (imu0): mean 0.290539993479, median 0.252299355353, std: 0.183004460975
Residuals
Reprojection error (cam0) [px]:
                              mean 0.394806814333, median 0.298034866683, std: 0.33469033674
Gyroscope error (imu0) [rad/s]:
                              mean 0.127130013501, median 0.112056362045, std: 0.0755903006199
Accelerometer error (imu0) [m/s^2]: mean 0.229692032691. median 0.199460153777. std: 0.144677729663
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.99998056 0.00596046 -0.00183104 0.05154619]
[ 0.00596532 -0.99997867  0.00265875  0.05029664]
[-0.00181515 -0.00266963 -0.99999479 -0.04450062]
١٥.
         0.
                0.
                     1.
T ic: (cam0 to imu0):
[[0.99998056 0.00596532 -0.00181515 -0.05192599]
[ 0.00596046 -0.99997867 -0.00266963  0.04986953]
[-0.00183104 0.00265875 -0.99999479 -0.04453973]
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]
[ 9.22208698 -0.0901903 -3.3336767 ]
Calibration configuration
   =================
```

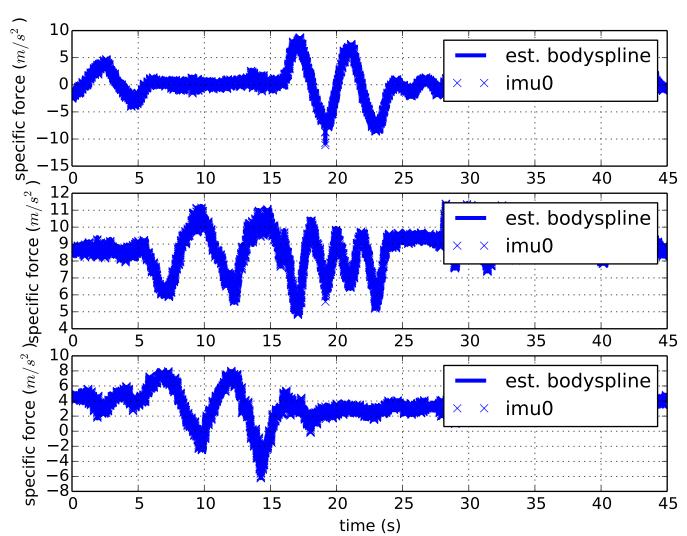
cam0

```
Camera model: pinhole
 Focal length: [475.03888642, 474.29264844]
 Principal point: [219.85007813, 311.58477823]
 Distortion model: radtan
 Distortion coefficients: [0.29167299, -0.6072107, -0.00083053, 0.00087051]
 Type: checkerboard
 Rows
  Count: 7
  Distance: 0.035 [m]
 Cols
  Count: 8
  Distance: 0.035 [m]
IMU configuration
IMU0:
-----
 Model: calibrated
 Update rate: 250.0
 Accelerometer:
  Noise density: 0.05
  Noise density (discrete): 0.790569415042
  Random walk: 0.001
 Gyroscope:
  Noise density: 0.02
  Noise density (discrete): 0.316227766017
  Random walk: 4e-05
 Tib
  [1. 0. 0. 0.]
  [0. 1. 0. 0.]
  [0. 0. 1. 0.]
```

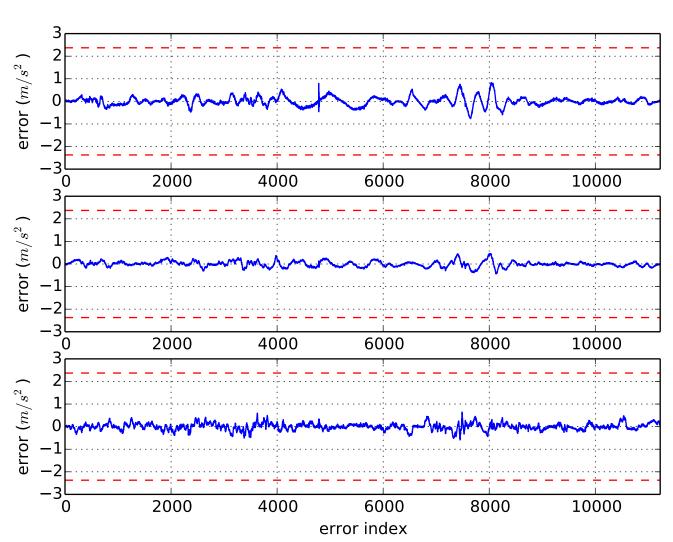
[0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

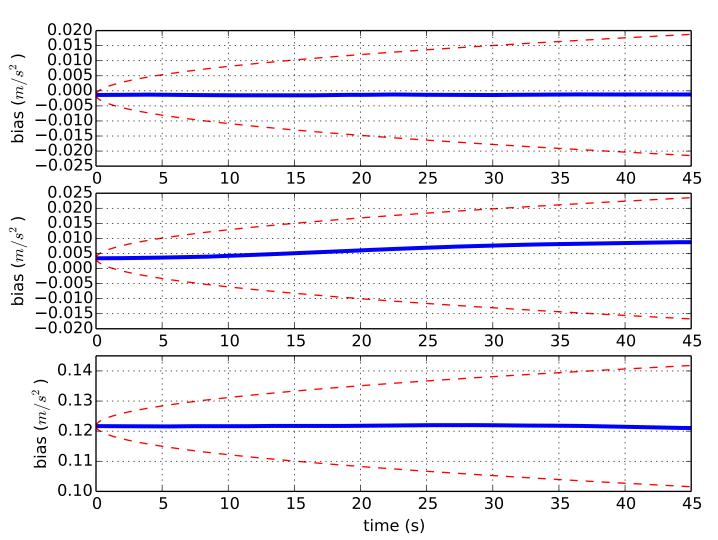
Comparison of predicted and measured specific force (imu0 frame)

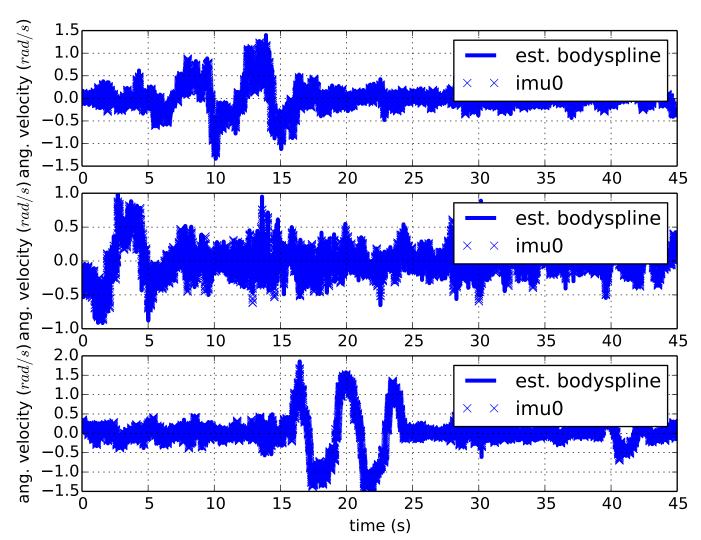


imu0: acceleration error

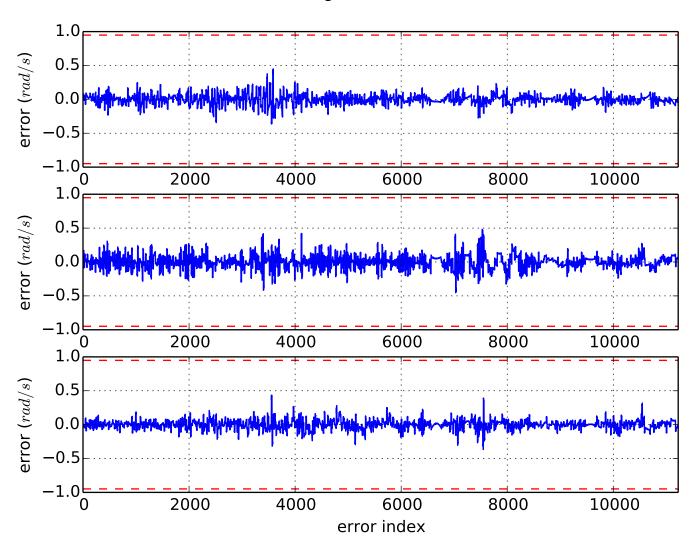


imu0: estimated accelerometer bias (imu frame)

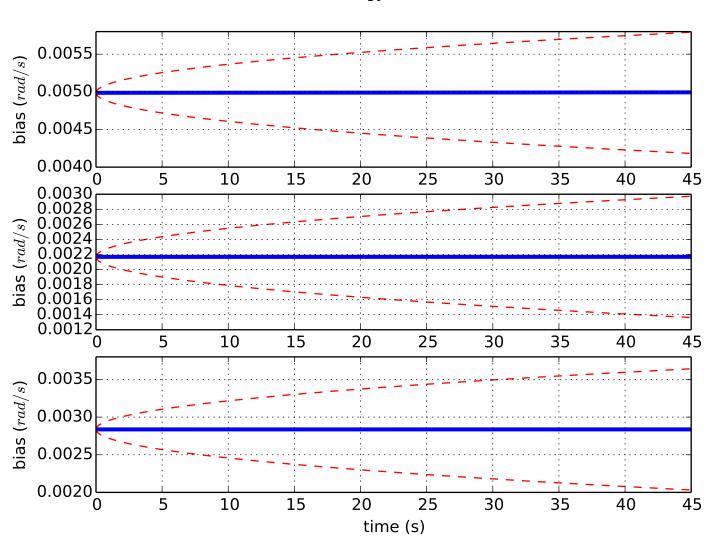




imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

