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Calibration results
Normalized Residuals
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Reprojection error (cam0):
                          mean 0.3765740348282974, median 0.30127455116419455, std: 0.30301039228181653
Gyroscope error (imu0):
                         mean 0.7240259166807912, median 0.5684277016675022, std: 0.6189169640833848
Accelerometer error (imu0): mean 0.8926986801122834, median 0.7040096919556325, std: 0.7136607389489643
Residuals
Reprojection error (cam0) [px]:
                              mean 0.3765740348282974, median 0.30127455116419455, std:
0.30301039228181653
Gyroscope error (imu0) [rad/s]:
                              mean 0.003121730109091941, median 0.0024508485542510013, std:
0.0026685394504444224
Accelerometer error (imu0) [m/s^2]: mean 0.24182379859349754, median 0.19070970053852387, std:
0.19332407971968085
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.99999019 0.00209983 0.00390052 0.05615703]
[ 0.00393197 -0.01518989 -0.9998769 -0.03205758]
[-0.00204032 0.99988242 -0.015198 -0.06964224]
10.
        0.
               0.
                      1.
T ic: (cam0 to imu0):
[[0.99999019 0.00393197 -0.00204032 -0.05617252]
[ 0.00209983 -0.01518989 0.99988242 0.06902918]
[ 0.00390052 -0.9998769 -0.015198 -0.0333311 ]
```

timeshift cam0 to imu0: [s] ($t_imu = t_cam + shift$) -0.0047022182460895665

1.

- 11

Gravity vector in target coords: [m/s^2] [-0.01161632 -9.72982616 -1.22424295]

0.

١٥.

0.

Calibration configuration

cam0

Camera model: pinhole

Focal length: [396.5999364098406, 396.4209082227211] Principal point: [326.34870176643096, 239.38795467864827]

Distortion model: radtan Distortion coefficients: [-0.3412642563474857, 0.10257232582980398, -0.00028809179845492135,

0.0005031282730652747]

Type: aprilgrid

Tags: Rows: 6 Cols: 6

Size: 0.088 [m]

Spacing 0.0263999999999999 [m]

IMU configuration

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IMU0:

Model: calibrated Update rate: 100 Accelerometer:

Noise density: 0.027089073164427782

Noise density (discrete): 0.2708907316442778 Random walk: 0.0026405437265548015

Gyroscope:

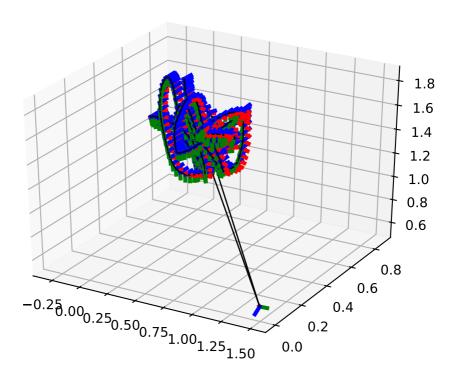
Noise density: 0.0004311627577370619

Noise density (discrete): 0.0043116275773706185

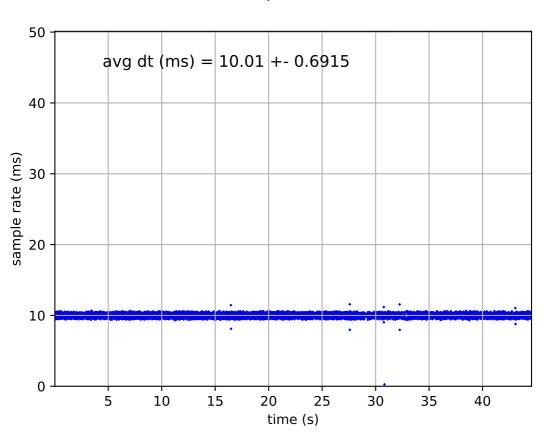
Random walk: 5.5971879319209416e-05

T_ib (imu0 to imu0)
[[1. 0. 0. 0.]
[0. 1. 0. 0.]
[0. 0. 1. 0.]
[0. 0. 0. 1. 0.]
[time offset with respect to IMU0: 0.0 [s]

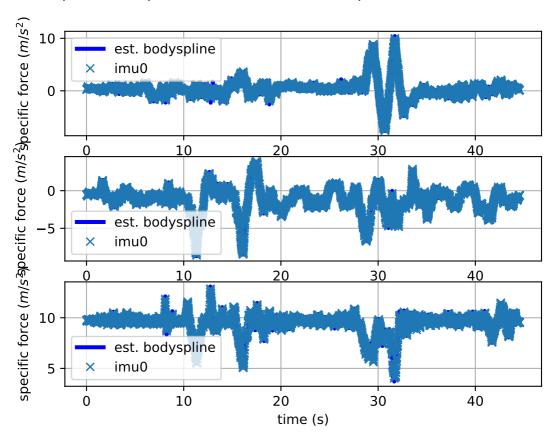
imu0: estimated poses



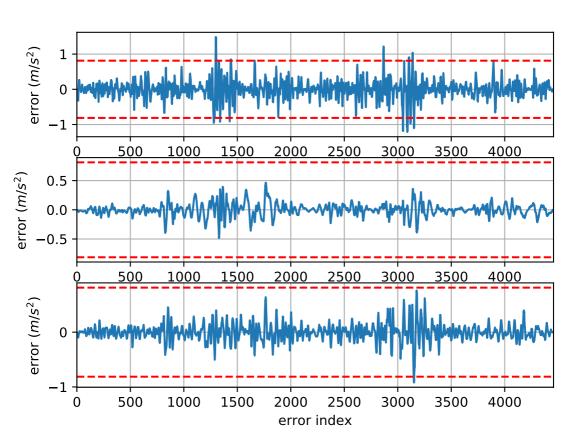
imu0: sample inertial rate



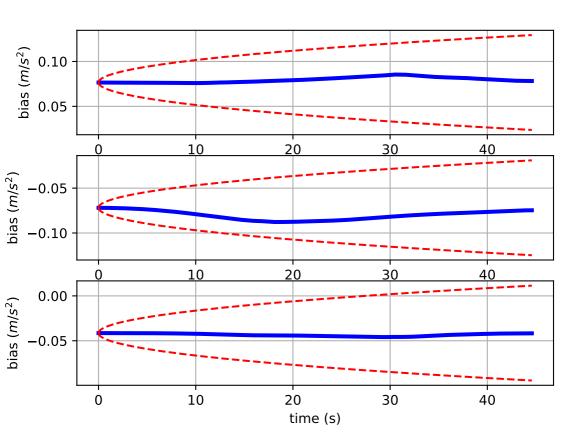
Comparison of predicted and measured specific force (imu0 frame)



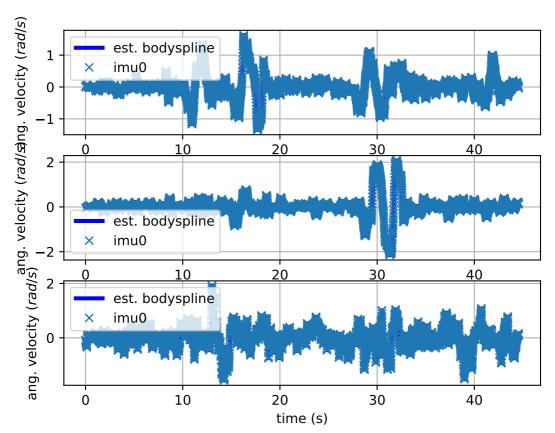
imu0: acceleration error



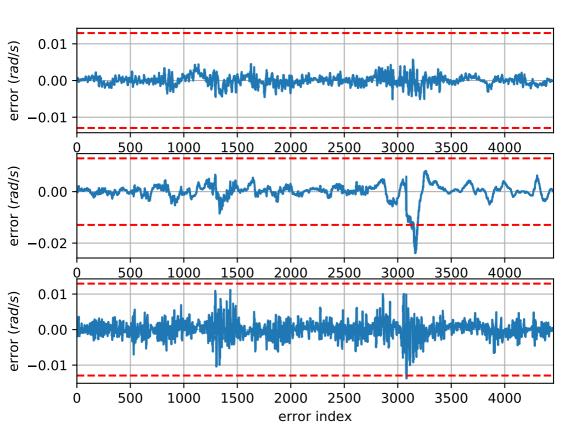
imu0: estimated accelerometer bias (imu frame)



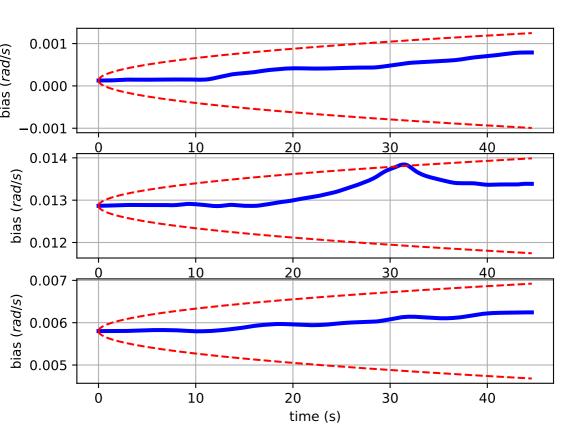
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

