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Calibration results
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.348444125906229, median 0.3132501992849717, std: 0.21242259113898165
Gyroscope error (imu0):
                         mean 1.8068332796812379, median 1.4562601180689174, std: 1.3477171366022311
Accelerometer error (imu0): mean 1.5070006767439352, median 1.1694629319318044, std: 1.4056387214443389
Residuals
Reprojection error (cam0) [px]:
                              mean 0.348444125906229, median 0.3132501992849717, std: 0.21242259113898165
Gyroscope error (imu0) [rad/s]:
                              mean 0.0153314887744336, median 0.012356776855896647, std:
0.01143575911695305
Accelerometer error (imu0) [m/s^2]: mean 0.04262441591113411, median 0.033077406780611225, std:
0.03975746687326722
Transformation (cam0):
T ci: (imu0 to cam0):
[[0.01111919 0.99988058 -0.01073218 0.0767933 ]
 0.99993809 -0.01112304 -0.00029948 0.003384981
[-0.00041881 -0.01072819 -0.99994236 -0.00917233]
١٥.
         Ο.
                0
                       1.
                              11
T ic: (cam0 to imu0):
[[0.01111919 0.99993809 -0.00041881 -0.00424249]
[ 0.99988058 -0.01112304 -0.01072819 -0.07684488]
[-0.01073218 -0.00029948 -0.99994236 -0.00834663]
١٥.
        0.
                Ο.
```

timeshift cam0 to imu0: [s] ($t_imu = t_cam + shift$) 0.0023296971957541225

Gravity vector in target coords: [m/s^2] [-9.75201654 0.13882397 -1.02338856]

Calibration configuration

cam0

Camera model: pinhole

Focal length: [402.2875884269033, 402.27348159196305]

Principal point: [331.54260440803483, 203.59389426713713] Distortion model: radtan

Distortion coefficients: [0.0043223786911166, -0.0448405164285339, 0.00019498020227043123,

-0.00131973995637506061 Type: aprilgrid

Tags: Rows: 6 Cols: 6

Size: 0.088 [m]

Spacing 0.0263999999999999 [m]

IMU configuration

IMU0:

Model: calibrated Update rate: 200.0 Accelerometer: Noise density: 0.002

Noise density (discrete): 0.0282842712474619

Random walk: 0.0005

Gyroscope:

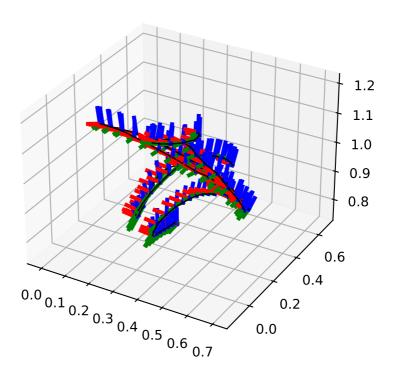
Noise density: 0.0006

Noise density (discrete): 0.00848528137423857

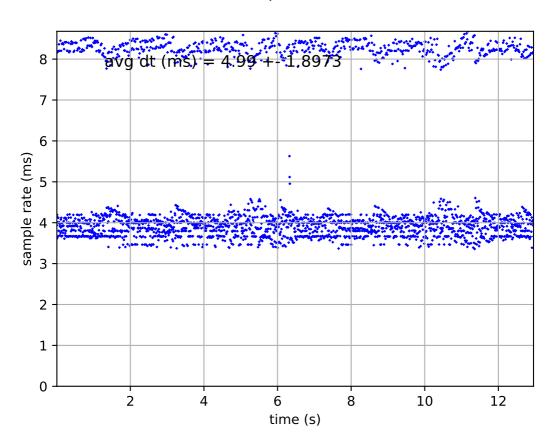
Random walk: 8e-05

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 \begin{array}{l} T \text{ ib (imu0 to imu0)} \\ \hline [[1.\ 0.\ 0.\ 0.] \\ [0.\ 1.\ 0.\ 0.] \\ [0.\ 0.\ 1.\ 0.] \\ [0.\ 0.\ 0.\ 1.]] \\ \hline \text{time offset with respect to IMU0: } 0.0 \ [s] \\ \end{array}
```

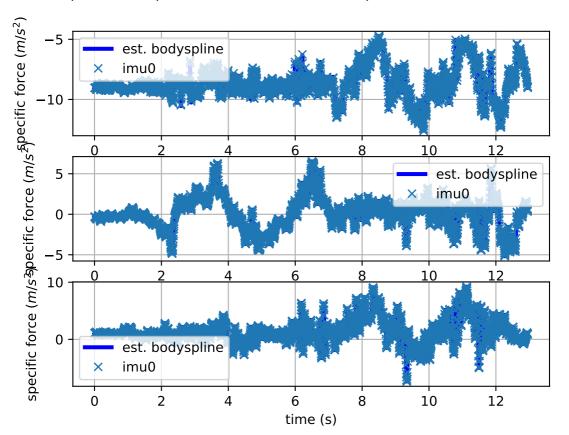
imu0: estimated poses



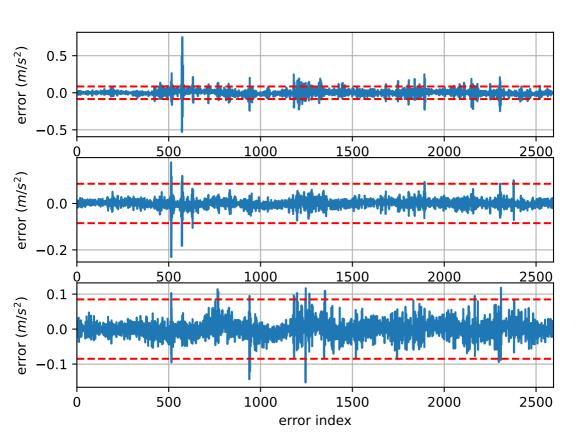
imu0: sample inertial rate



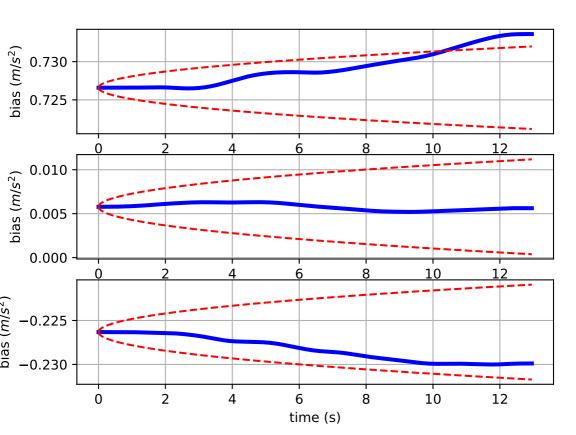
Comparison of predicted and measured specific force (imu0 frame)



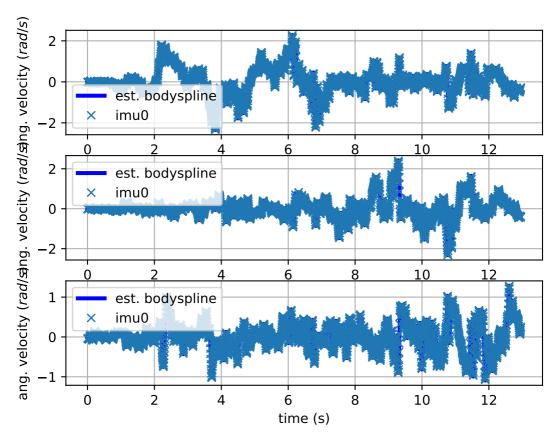
imu0: acceleration error



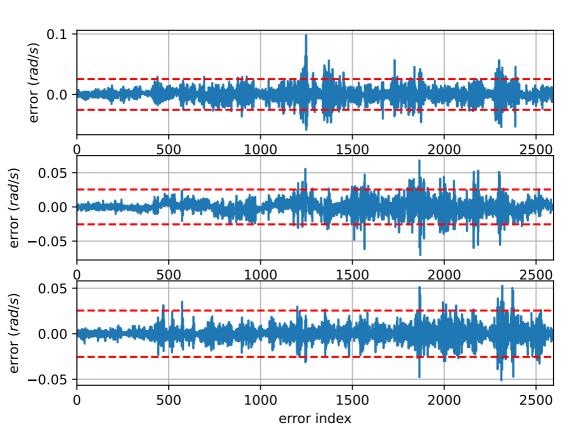
imu0: estimated accelerometer bias (imu frame)



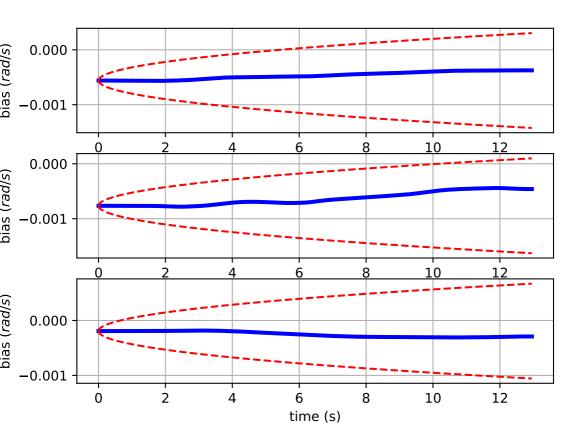
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

