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Calibration results
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Normalized Residuals
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mean 0.0442069016938. median 0.041170748539. std: 0.023418849181 Reprojection error (cam0): mean 0.0532330878599, median 0.0483144086564, std: 0.0280202962724 Gyroscope error (imu0): Accelerometer error (imu0): mean 0.619905670651, median 0.364711021764, std: 0.610473186387

Residuals

```
Reprojection error (cam0) [px]:
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mean 0.0442069016938, median 0.041170748539, std: 0.023418849181 Gyroscope error (imu0) [rad/s]: mean 0.00376414774092, median 0.003416344599, std: 0.001981334150 Accelerometer error (imu0) [m/s^2]: mean 0.0876679006826, median 0.0515779273325, std: 0.086333945

Transformation (cam0):

T ic: (cam0 to imu0):

```
T ci: (imu0 to cam0):
[[ 0.99997106  0.00009551  0.00760693 -0.04532367]
[-0.00002566 0.99995785 -0.00918168 -0.02582696]
[-0.00760749 0.00918122 0.99992891 -0.01455859]
[ 0.
                       1.
        0.
                0.
```

[[0.99997106 -0.00002566 -0.00760749 0.04521094] [0.00009551 0.99995785 0.00918122 0.02596386] [0.00760693 -0.00918168 0.99992891 0.0146652] [0. 0. 0. 1.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.001557271325479997

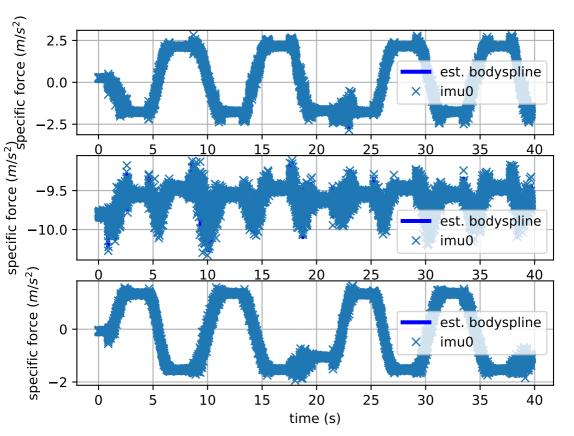
Gravity vector in target coords: [m/s^2] [9.80400613 -0.21871476 0.0452829]

Calibration configuration

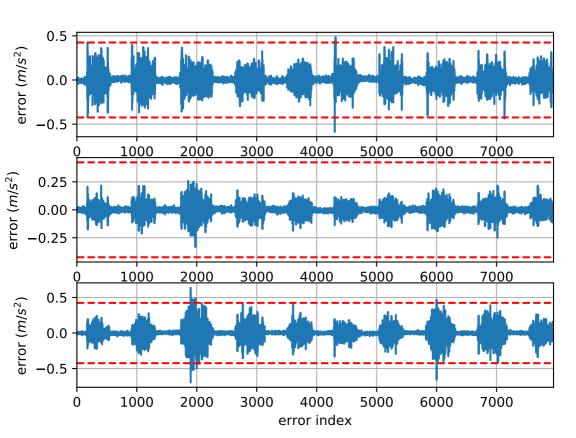
Camera model: pinhole Focal length: [468.906082694885, 468.95979206327786] Principal point: [364.8533346068778, 215.4937445050946] Distortion model: equidistant Distortion coefficients: [0.012245093310874177, -0.06011529683474609, 0.17162762296825532, -0.1534 Type: checkerboard Rows Count: 7 Distance: 0.07 [m] Cols Count: 6 Distance: 0.07 [m] IMU configuration =========== IMU0: Model: calibrated Update rate: 200.0 Accelerometer: Noise density: 0.01 Noise density (discrete): 0.141421356237 Random walk: 0.002 Gyroscope: Noise density: 0.005 Noise density (discrete): 0.0707106781187 Random walk: 4e-06 Tib [[1. 0. 0. 0.]][0. 1. 0. 0.] [0, 0, 1, 0, 1] $[0. \ 0. \ 0. \ 1.]]$

time offset with respect to IMLIO: 0.0 [s]

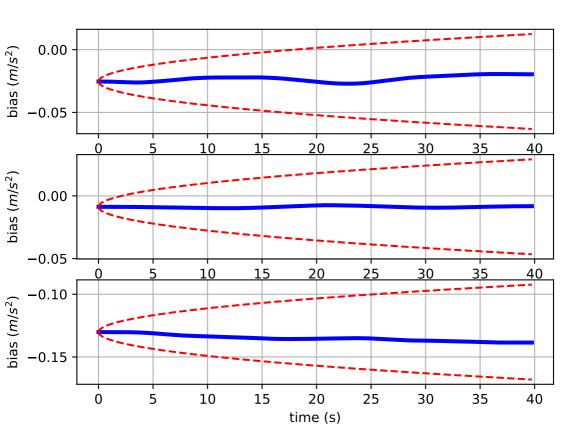
Comparison of predicted and measured specific force (imu0 frame)



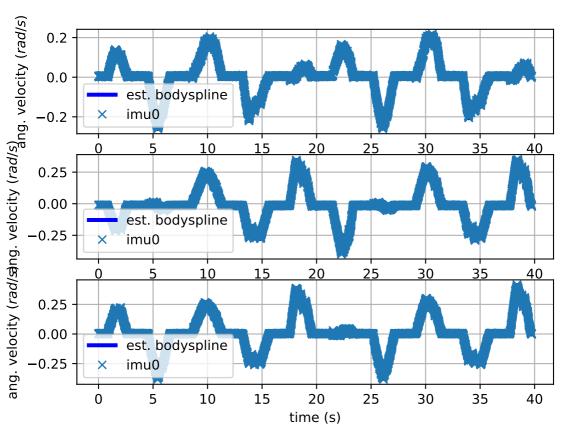
imu0: acceleration error



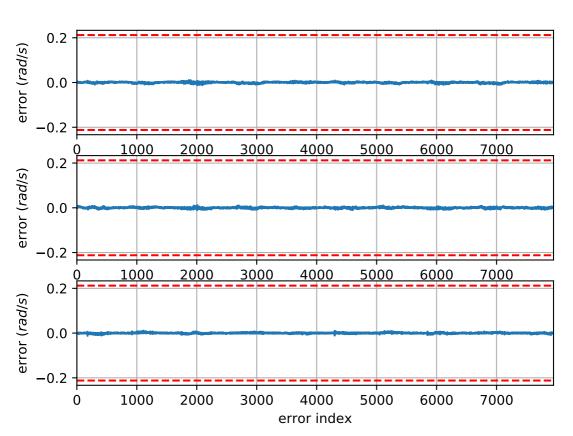
imu0: estimated accelerometer bias (imu frame)



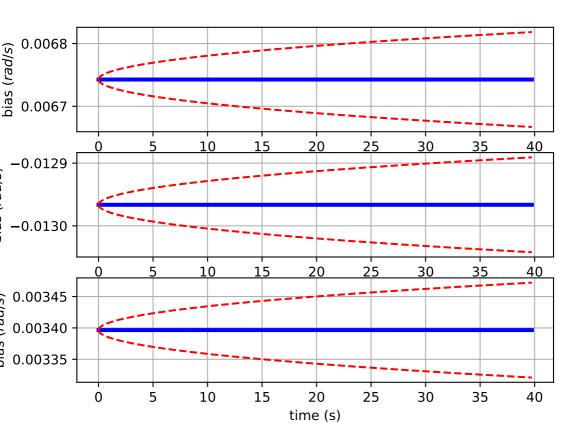
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

