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Calibration results
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Normalized Residuals
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mean 0.0464499961455, median 0.0431756820018, std: 0.0250070653171 Reprojection error (cam0): Gyroscope error (imu0): mean 0.0774700126671, median 0.0536688180676, std: 0.0715029893483 Accelerometer error (imu0): mean 1.18431311539, median 0.270983844601, std: 1.83192342677

mean 0.0464499961455, median 0.0431756820018, std: 0.025007065317

mean 0.00547795712955, median 0.00379495851939, std: 0.0050560248

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Residuals
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Reprojection error (cam0) [px]:

Gyroscope error (imu0) [rad/s]:

Accelerometer error (imu0) [m/s^2]: mean 0.167487166988, median 0.0383229028218, std: 0.2590730955

Transformation (cam0):

T ci: (imu0 to cam0):

[[0.99997785 0.00282129 0.0060278 -0.04131619] [-0.00277009 0.99996017 -0.00848464 -0.00246375] [-0.0060515 0.00846775 0.99994584 -0.00691993] [0. 0. 0. 1.

T ic: (cam0 to imu0):

[0.00282129 0.99996017 0.00846775 0.00263882] [0.0060278 -0.00848464 0.99994584 0.0071477] [0. 0. 0. 1.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.0012464283225943299

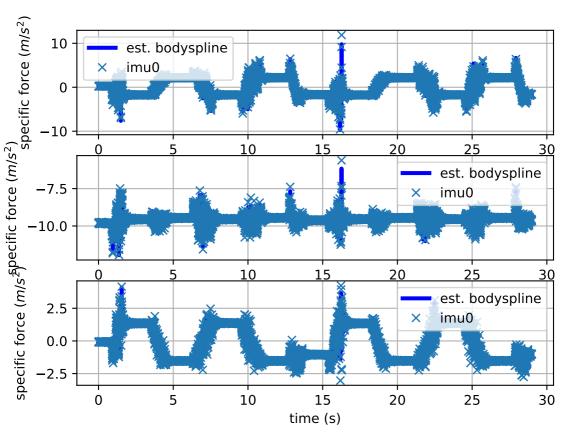
Gravity vector in target coords: [m/s^2] [9.80461559 -0.18796667 0.05103547]

Calibration configuration

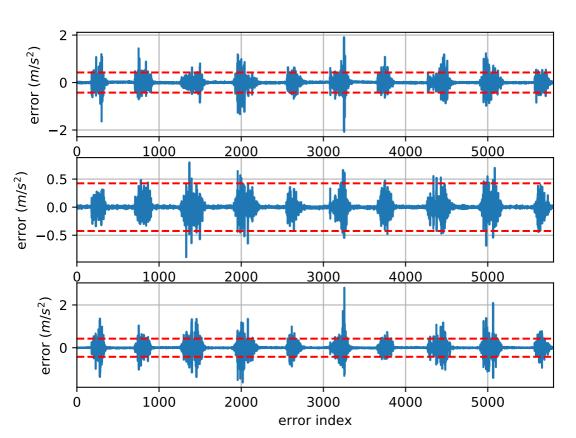
Camera model: pinhole Focal length: [468.2527687453535, 468.3265694180005] Principal point: [364.91196913276707, 215.81303741968622] Distortion model: equidistant Distortion coefficients: [0.011135829319036753, -0.05338166866546771, 0.15329931633590166, -0.1346 Type: checkerboard Rows Count: 7 Distance: 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: 0.0002 Gyroscope: Noise density: 0.005 Noise density (discrete): 0.0707106781187 Random walk: 4e-06 Tib [1, 0, 0, 0, 1][0. 1. 0. 0.] [0, 0, 1, 0, 1] $[0. \ 0. \ 0. \ 1.]]$

time offset with respect to IMLIO: 0.0 [s]

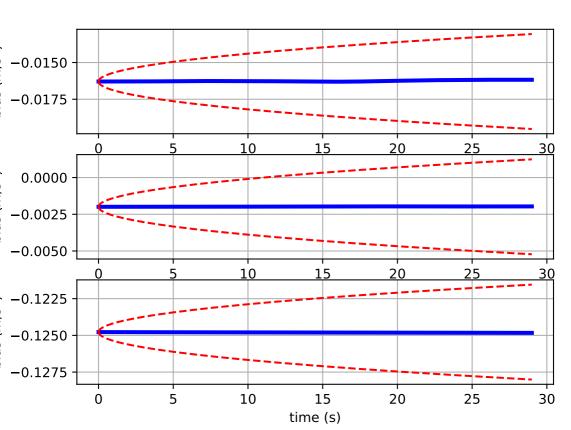
Comparison of predicted and measured specific force (imu0 frame)



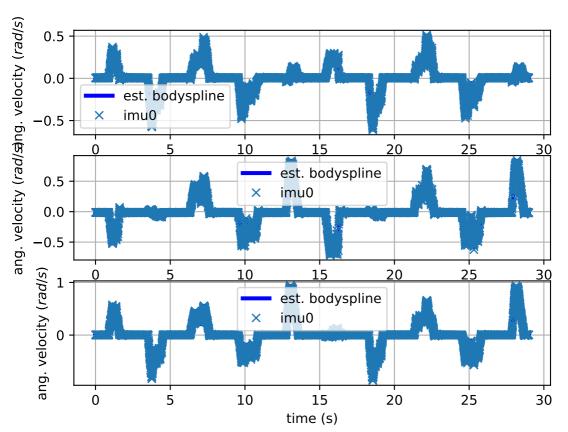
imu0: acceleration error



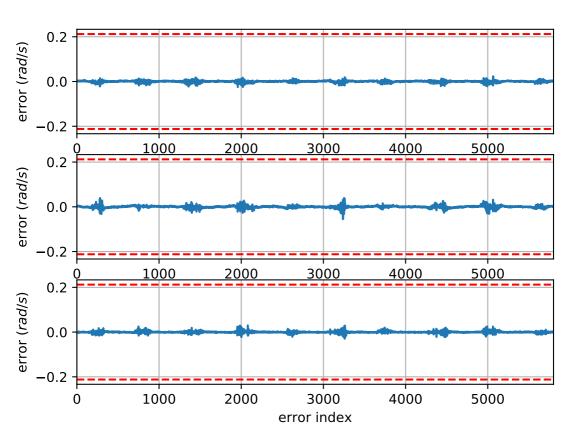
imu0: estimated accelerometer bias (imu frame)



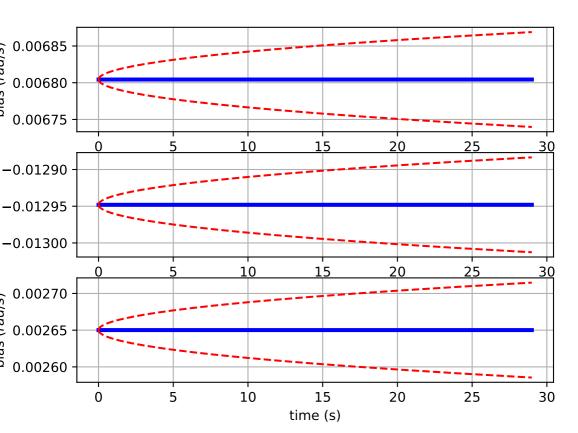
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

