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Calibration results
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Normalized Residuals
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mean 0.448041615078, median 0.31681982198, std: 0.413871000681 Reprojection error (cam0): Gyroscope error (imu0): mean 1.34152973689, median 1.1977554271, std: 0.997372337423 Accelerometer error (imu0): mean 4.70366529897, median 3.55465972101, std: 3.55172952442

Residuals

Reprojection error (cam0) [px]:

mean 0.448041615078, median 0.31681982198, std: 0.413871000681 Gyroscope error (imu0) [rad/s]: mean 0.0948604774116, median 0.0846940984702, std: 0.070524874316 Accelerometer error (imu0) [m/s^2]: mean 0.665198725866, median 0.502704798708, std: 0.50229040633

Transformation (cam0):

T ci: (imu0 to cam0):

[[0.00179621 0.99975266 -0.02216745 0.04066494] [-0.99977684 0.00226197 0.02100357 -0.02253073] [0.02104852 0.02212478 0.99953362 0.02270426] ١٥. 1.]] 0. 0.

T ic: (cam0 to imu0): [[0.00179621 -0.99977684 0.02104852 -0.02307663] [0.99975266 0.00226197 0.02212478 -0.04110625] [0. 0. 0. 1.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.0006782345229153565

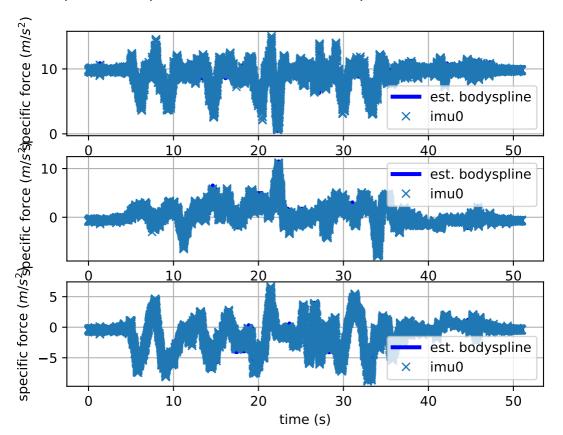
Gravity vector in target coords: [m/s^2] [-0.0829319 8.29400593 -5.23173115]

Calibration configuration

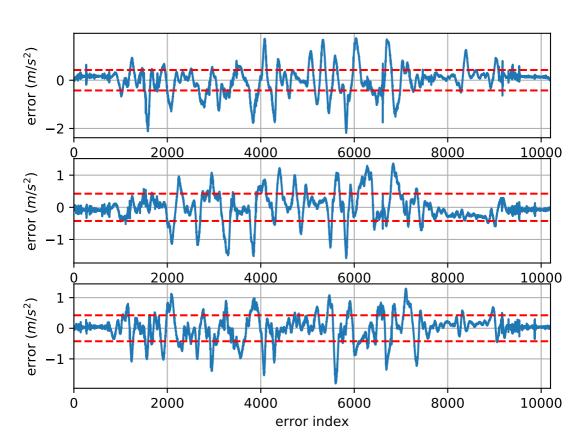
Camera model: pinhole Focal length: [462.1043820249756, 460.64320792063444] Principal point: [360.5759001834265, 234.15330719645002] Distortion model: equidistant Distortion coefficients: [-0.0066083616410188865, 0.03065787714084398, -0.03875016297076553, 0.019 Type: aprilgrid Tags: Rows: 6 Cols: 6 Size: 0.02 [m] Spacing 0.006 [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.] $[0. \ 0. \ 1. \ 0.]$ [0. 0. 0. 1.]]

time offset with respect to IMU0: 0.0 [s]

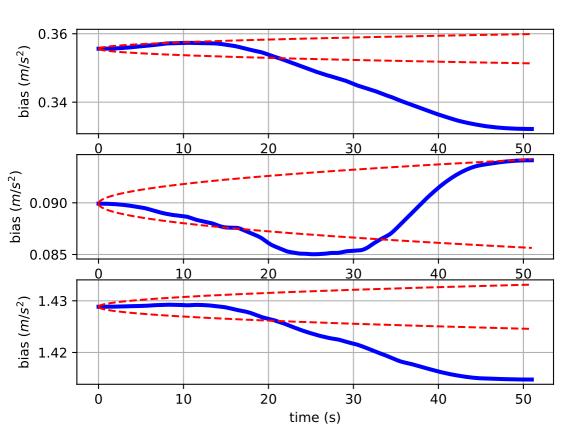
Comparison of predicted and measured specific force (imu0 frame)



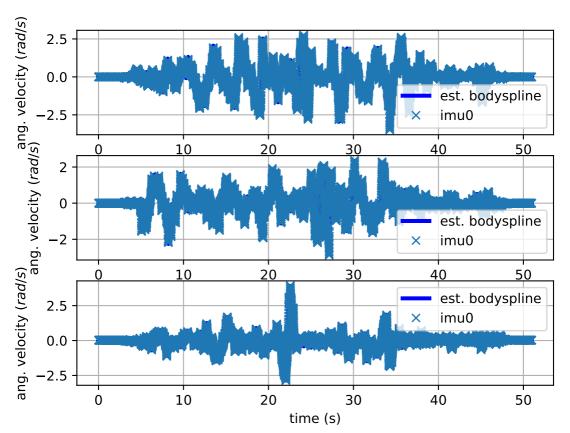
imu0: acceleration error



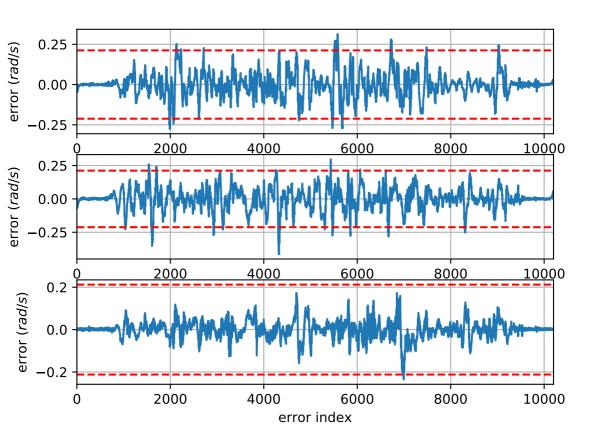
imu0: estimated accelerometer bias (imu frame)



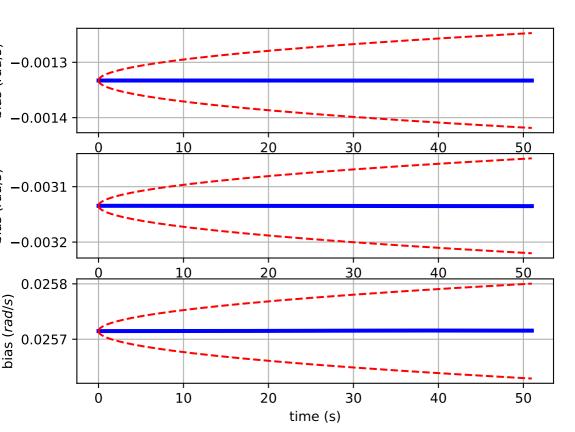
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

