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Calibration results
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Normalized Residuals
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mean 0.0455582272958, median 0.0423858106109, std: 0.0246574759433 Reprojection error (cam0): mean 0.0621014180447, median 0.0513521710706, std: 0.0415298277848 Gyroscope error (imu0): Accelerometer error (imu0): mean 0.779271987522, median 0.306997899662, std: 0.931262272105

Residuals

[0.

Reprojection error (cam0) [px]:

mean 0.0455582272958, median 0.0423858106109, std: 0.024657475943 Gyroscope error (imu0) [rad/s]: mean 0.00439123338207, median 0.00363114683927, std: 0.0029366022 Accelerometer error (imu0) [m/s^2]: mean 0.110205701353, median 0.0434160593322, std: 0.1317003735

Transformation (cam0):

T ci: (imu0 to cam0):

0. 0.

[[0.99997244 0.00090024 0.00736908 -0.04060637] [-0.00083606 0.99996174 -0.00870801 -0.00865148] [-0.00737664 0.00870161 0.99993493 -0.00015814]

T ic: (cam0 to imu0): [[0.99997244 -0.00083606 -0.00737664 0.04059685]

1.

[0.00090024 0.99996174 0.00870161 0.00868908] [0.00736908 -0.00870801 0.99993493 0.00038202] [0. 0. 0. 1.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.0010717539755843825

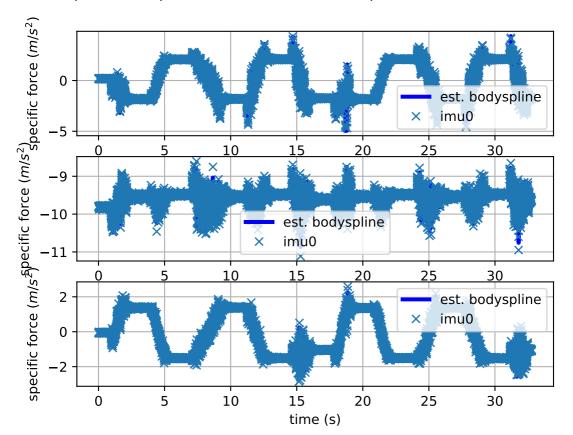
Gravity vector in target coords: [m/s^2] [9.8041784 -0.21216074 0.038687]

Calibration configuration

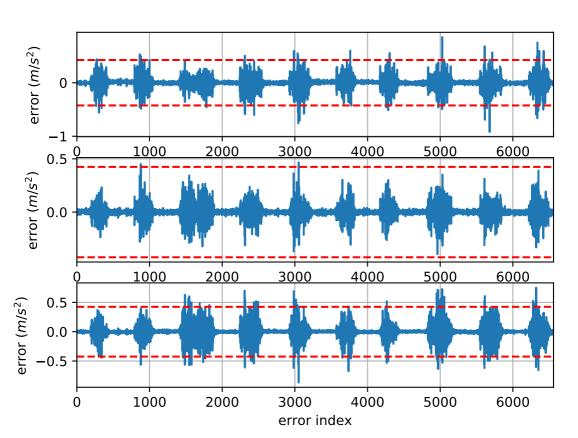
Camera model: pinhole Focal length: [468.906082694885, 468.95979206327786] Principal point: [364.8533346068778, 215.4937445050946] Distortion model: equidistant Distortion coefficients: [0.012245093310874177, -0.06011529683474609, 0.17162762296825532, -0.1534 Type: checkerboard Rows Count: 7 Distance: 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: 0.0002 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]

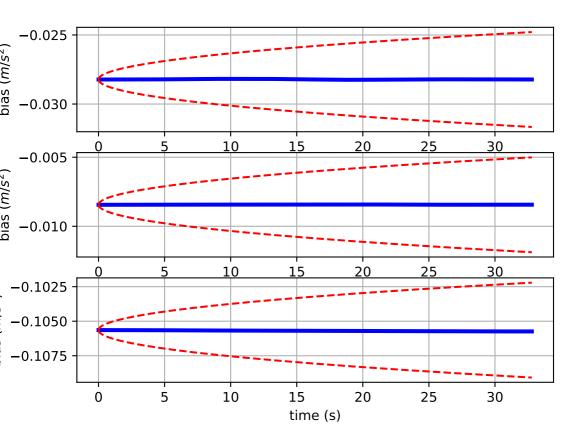
Comparison of predicted and measured specific force (imu0 frame)



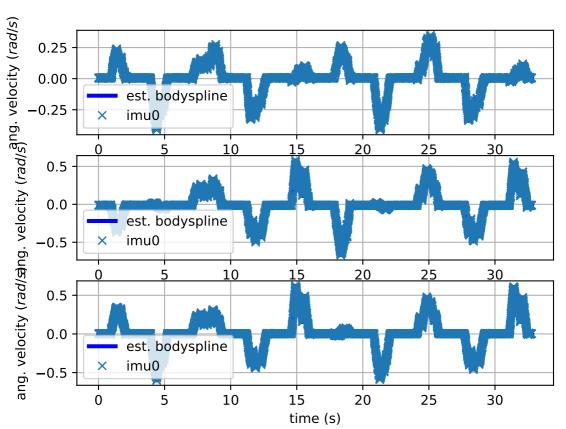
imu0: acceleration error



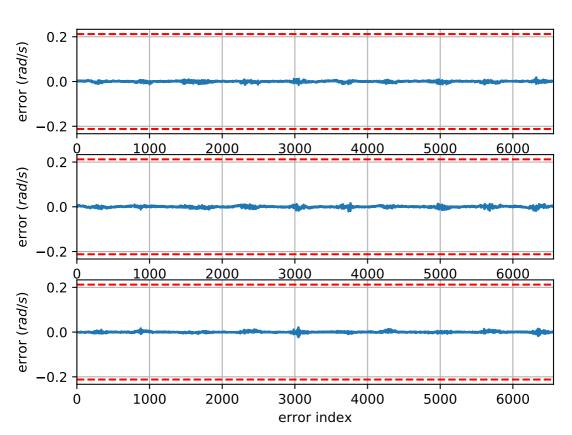
imu0: estimated accelerometer bias (imu frame)



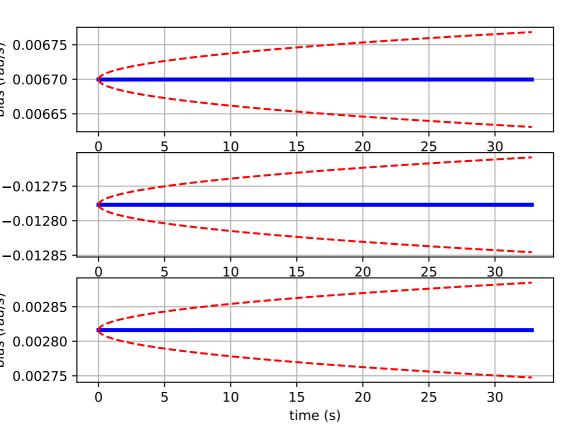
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

