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Calibration results

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Normalized Residuals

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Reprojection error (cam0): me
Reprojection error (cam1): me
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Reprojection error (cam1) [px]: Gyroscope error (imu0) [rad/s]:

Reprojection error (cam0): mean 1.28410974596, median 0.991081641556, std: 1.0652242405
Reprojection error (cam1): mean 1.52589694919, median 1.07104577365, std: 1.40886578707
Gyroscope error (imu0): mean 8.75236132124, median 5.19689911695, std: 9.79372026184
Accelerometer error (imu0): mean 5.52726780341, median 3.70167970602, std: 5.55659112497

Accelerometer error (imu0) [m/s^2]: mean 1.02807181143, median 0.68851242532, std: 1.03352594924

mean 1.28410974596, median 0.991081641556, std: 1.0652242405 mean 1.52589694919, median 1.07104577365, std: 1.40886578707

mean 0.163669156707, median 0.0971820134869, std: 0.183142568896

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Residuals
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Reprojection error (cam0) [px]:

Transformation (cam0):
----T ci: (imu0 to cam0):

timeshift cam0 to imu0: [s] $(t_imu = t_cam + shift) -0.0427128814704$

Transformation (cam1):

T ci: (imu0 to cam1):

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١٥.
         0.
                0.
                   1.
                              11
T ic: (cam1 to imu0):
[[0.00272049 -0.10259825 0.99471916 0.06460577]
[-0.99467258 0.1022278 0.01326444 -0.03199332]
[-0.10304886 -0.98945595 -0.10177355 -0.02343053]
I 0.
                Ο.
                        1.
timeshift cam1 to imu0: [s] (t imu = t cam + shift)
-0.0469552426332
Baselines:
Baseline (cam0 to cam1):
[[ 0.99994534  0.00745234 -0.00733379 -0.07497447]
[-0.0074005 0.99994762 0.00706991 0.00173043]
[ 0.00738609 -0.00701525  0.99994811 -0.00001388]
ΓΟ.
         0.
                0.
                        1.
baseline norm: 0.0749944397342 [m]
Gravity vector in target coords: [m/s^2]
[ 0.11650358 -8.98399315 -3.92972223]
Calibration configuration
cam0
 Camera model: pinhole
 Focal length: [421.5669029808091, 419.9735018071812]
 Principal point: [316.11296529792736, 199.00943931140193]
 Distortion model: radtan
 Distortion coefficients: [0.07644672366773358, -0.11379626861839984, 0.0008189670995508705, 0.0002
 Type: aprilgrid
```

Tags:

```
Spacing 0.0066 [m]
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cam1

Camera model: pinhole Focal length: [423,73924721507734, 422.2169242295692]

Principal point: [317.56464593849574, 198.7006786616447]

Distortion model: radtan
Distortion coefficients: [0.07295454286203246, -0.11362362644847068, -0.0003364900885894738, -0.000

Tags: Rows: 6 Cols: 6 Size: 0.022 [m]

Type: aprilgrid

IMU configuration

Spacing 0.0066 [m]

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Model: calibrated
Update rate: 100.0
Accelerometer:

Gyroscope:

IMU0:

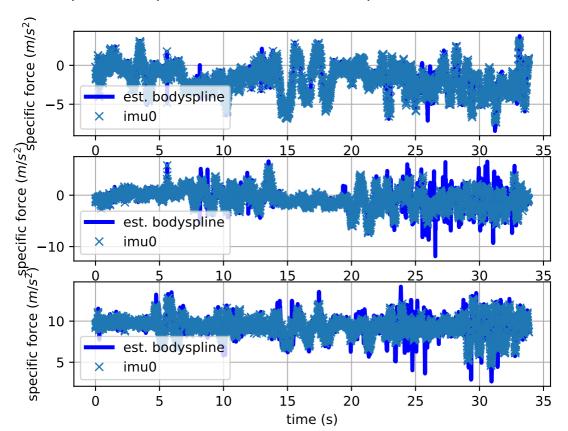
Noise density: 0.0186 Noise density (discrete): 0.186 Random walk: 0.00433

Noise density: 0.00187 Noise density (discrete): 0.0187 Random walk: 0.000266

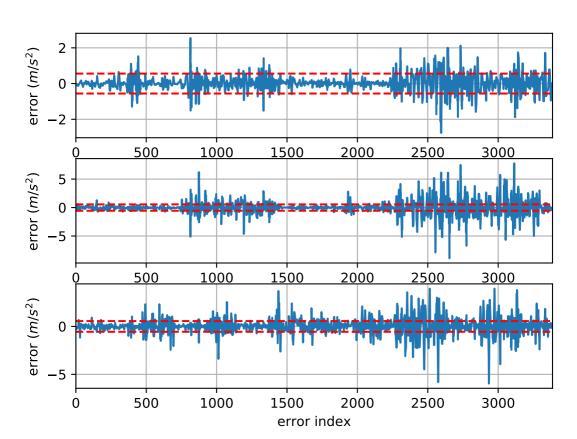
Random walk: 0.000266 T i b

[[1. 0. 0. 0.]

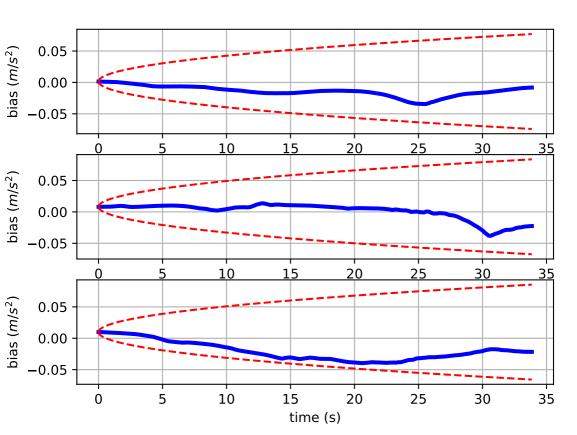
Comparison of predicted and measured specific force (imu0 frame)



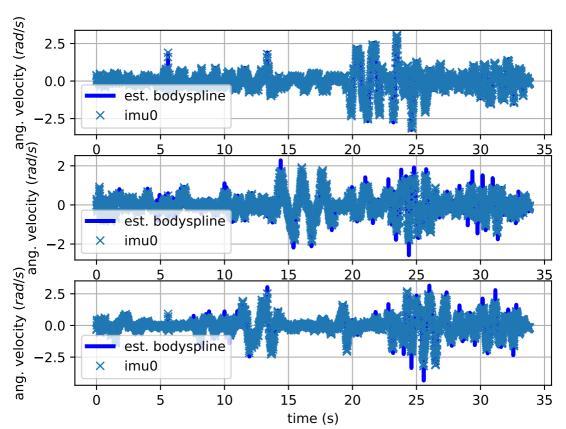
imu0: acceleration error



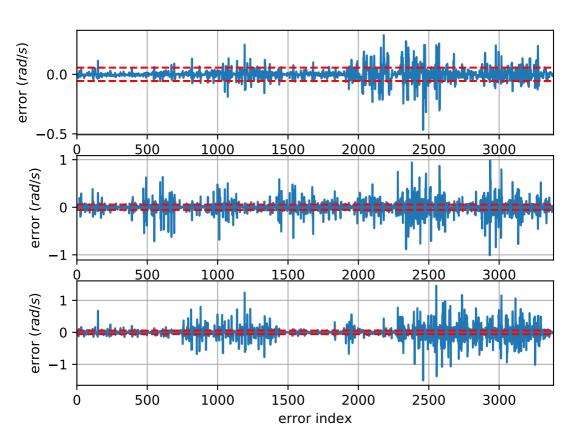
imu0: estimated accelerometer bias (imu frame)



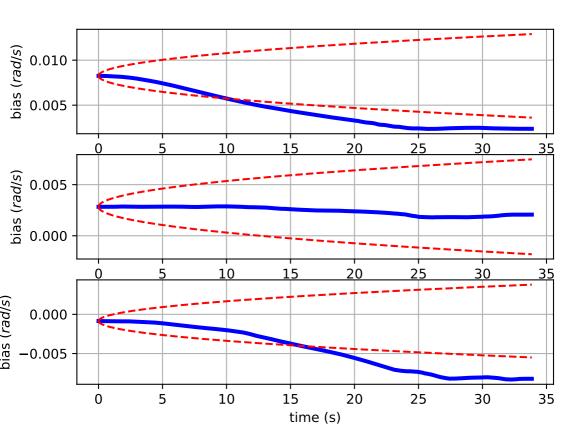
Comparison of predicted and measured angular velocities (body frame)



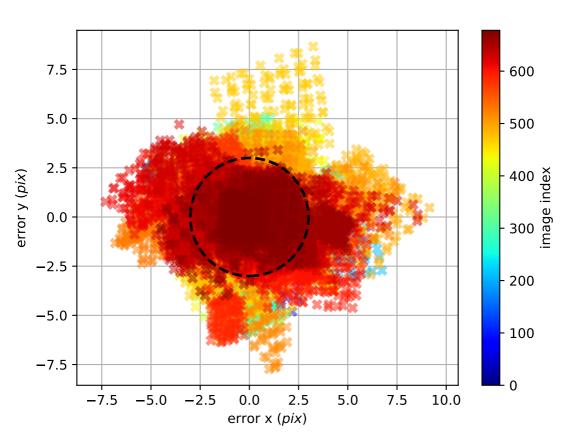
imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors



cam1: reprojection errors

