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Calibration results
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Normalized Residuals
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                          mean 0.08588974122159411, median 0.0800397497222537, std: 0.04637572
Reprojection error (cam0):
Gyroscope error (imu0):
                         mean 0.025357645638574504, median 0.020834824404655, std: 0.016988369
Accelerometer error (imu0):
                          mean 0.10587102882392523, median 0.07587030205771872, std: 0.1299275
Residuals
                              mean 0.08588974122159411, median 0.0800397497222537, std: 0.04637
Reprojection error (cam0) [px]:
Gyroscope error (imu0) [rad/s]:
                              mean 0.009635905342658312, median 0.007917233273768899, std: 0.00
Accelerometer error (imu0) [m/s^2]: mean 0.040230990953091586, median 0.028830714781933112, std: (
Transformation (cam0):
T ci: (imu0 to cam0):
[[ 0.99998976  0.00423405 -0.00160069 -0.00686181]
[ 0.00423847 -0.99998719  0.00276746 -0.00793126]
[-0.00158895 -0.00277422 -0.99999489 -0.03412494]
١٥.
                       1.
        0.
           0.
T ic: (cam0 to imu0):
[[0.99998976 0.00423847 -0.00158895 0.00684114]
[ 0.00423405 -0.99998719 -0.00277422 -0.00799677]
```

Gravity vector in target coords: [m/s^2] [-0.02867823 -9.80650804 -0.00066143]

0.

[0.

0.

0.001939579925335353

[-0.00160069 0.00276746 -0.99999489 -0.0341138]

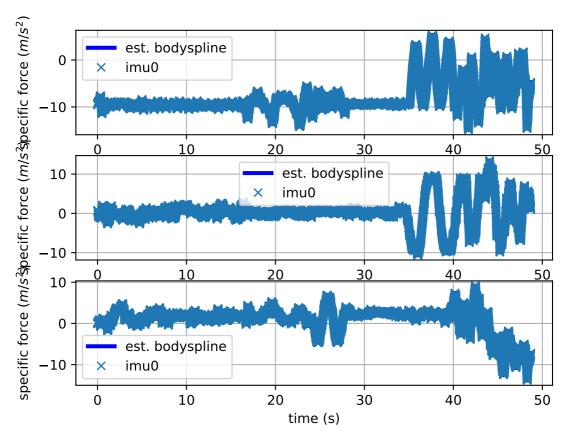
1.

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

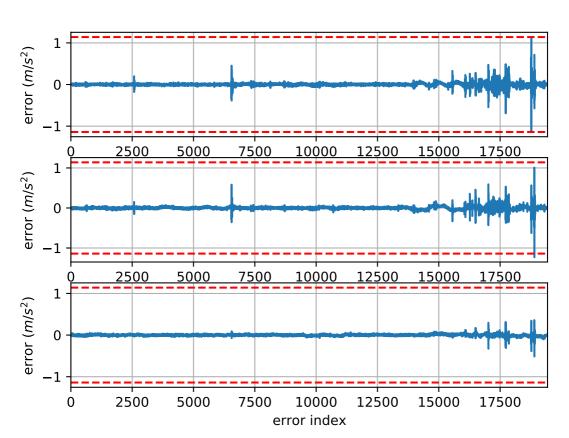
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Camera model: pinhole
Focal length: [350.70040966794545, 350.8792449525716]
Principal point: [375.2977403521422, 268.5927747079796]
Distortion model: equidistant
 Type: aprilgrid
Tags:
 Rows: 7
 Cols: 12
 Size: 0.15 [m]
  Spacing 0.0375 [m]
IMU configuration
===========
IMU0:
Model: calibrated
Update rate: 400.0
Accelerometer:
  Noise density: 0.019
  Noise density (discrete): 0.379999999999995
 Random walk: 0.0043
Gyroscope:
  Noise density: 0.019
 Noise density (discrete): 0.379999999999995
 Random walk: 0.000266
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]

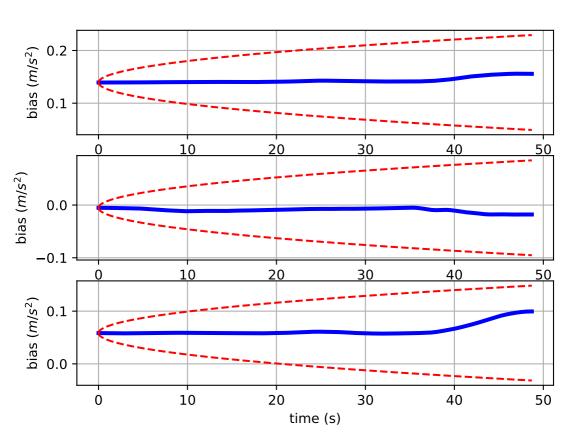
Comparison of predicted and measured specific force (imu0 frame)



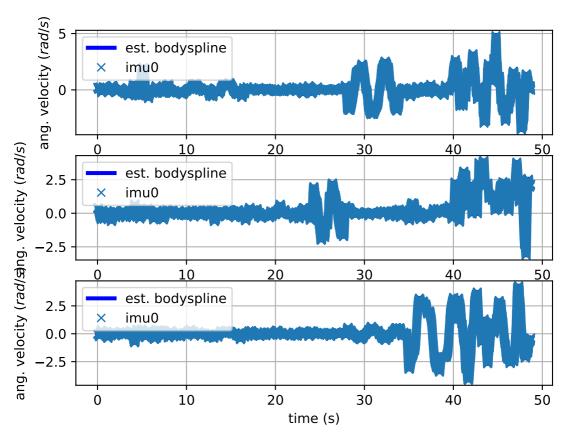
imu0: acceleration error



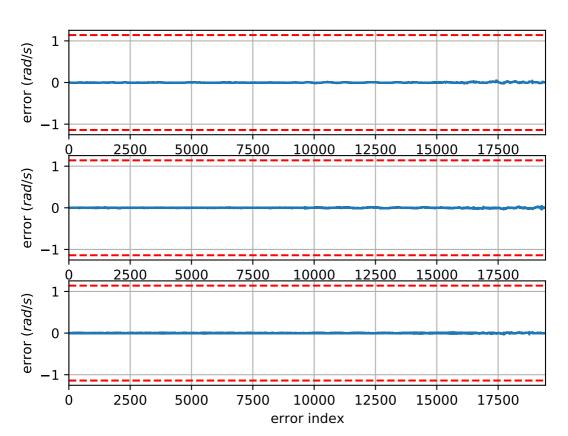
imu0: estimated accelerometer bias (imu frame)



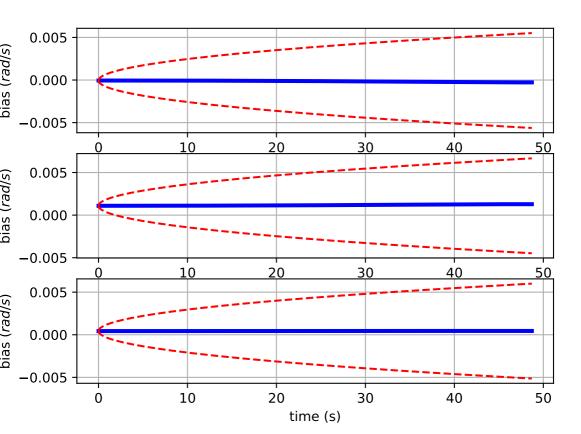
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

