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Calibration results
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Normalized Residuals
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Reprojection error (cam0):
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mean 0.0962359253036, median 0.0893346904227, std: 0.0512436974644 Gyroscope error (imu0): mean 2.28928707939. median 2.24391876082. std: 0.825108676922 Accelerometer error (imu0): mean 32.3171259418, median 32.2065144662, std: 2.06323593398

```
Residuals
```

[0.

```
Reprojection error (cam0) [px]:
```

Gyroscope error (imu0) [rad/s]: mean 0.000742870432322, median 0.000728148476859, std: 0.00026774 Accelerometer error (imu0) [m/s^2]: mean 1.08153789792, median 1.07783612991, std: 0.0690490812508

mean 0.0962359253036, median 0.0893346904227, std: 0.051243697464

```
Transformation (cam0):
```

```
T ci: (imu0 to cam0):
[[-0.0015205 -0.99999756 -0.00160372 0.0583196 ]
[ 0.00066776 -0.00160474 0.99999849 -0.09704304]
```

0. 0.

T ic: (cam0 to imu0): [[-0.0015205 0.99999862 0.00066776 -0.00044662]

1.]]

[-0.99999756 -0.00151943 -0.00160474 0.05816464] [-0.00160372 -0.0006702 0.99999849 0.09713682] ١٥. 0. 0. 1.

timeshift cam0 to imu0: [s] (t imu = t cam + shift) 0.003913783353790558

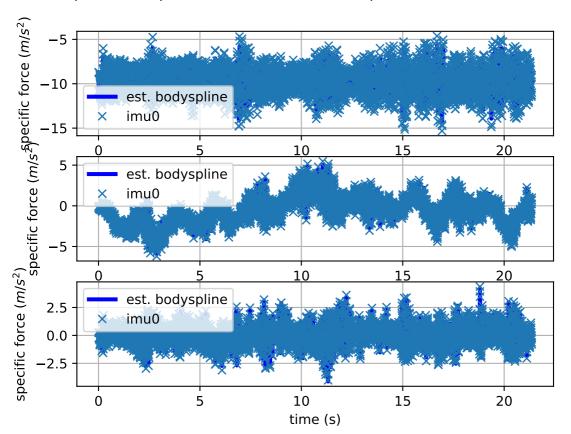
Gravity vector in target coords: [m/s^2] [0.01643626 9.8065148 0.0204976]

Calibration configuration

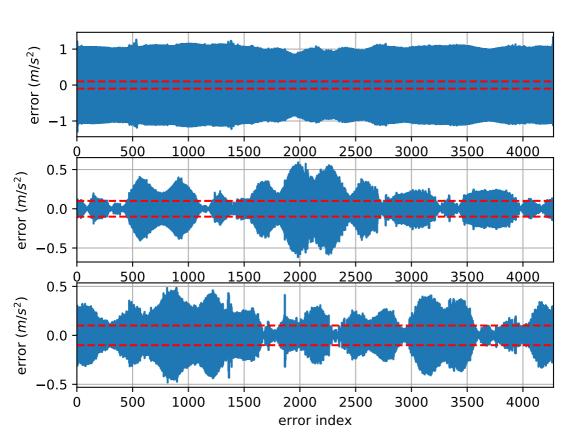
```
Camera model: pinhole
 Focal length: [585.7561, 585.7561]
 Principal point: [320.5, 240.5]
 Distortion model: radtan
 Distortion coefficients: [0.0, 0.0, 0.0, 0.0]
 Type: checkerboard
 Rows
  Count: 6
  Distance: 0.01 [m]
 Cols
  Count: 7
  Distance: 0.01 [m]
IMU configuration
============
IMU0:
 Model: calibrated
 Update rate: 70.0
 Accelerometer:
  Noise density: 0.004
  Noise density (discrete): 0.0334664010614
  Random walk: 0.006
 Gyroscope:
  Noise density: 3.8785e-05
  Noise density (discrete): 0.000324498591291
  Random walk: 0.0003394
 Tib
  [[1. 0. 0. 0.]]
  [0. 1. 0. 0.]
   [0.0.1.0.]
   [0. \ 0. \ 0. \ 1.]]
```

time offset with respect to IMLIO: 0.0 [s]

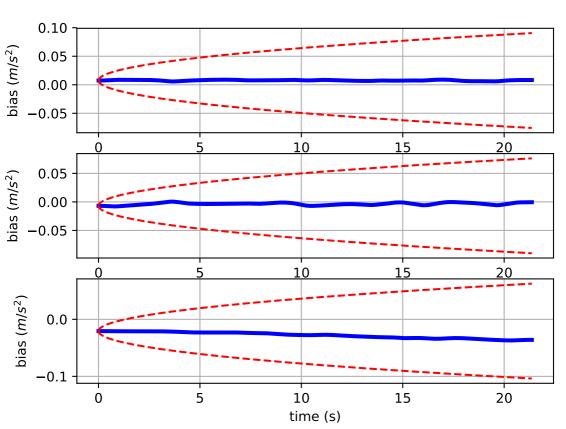
Comparison of predicted and measured specific force (imu0 frame)



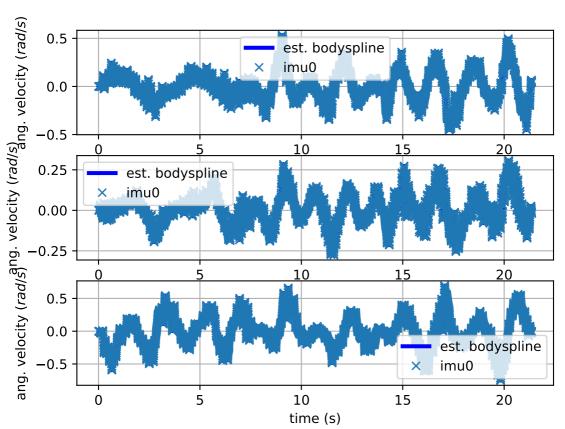
imu0: acceleration error



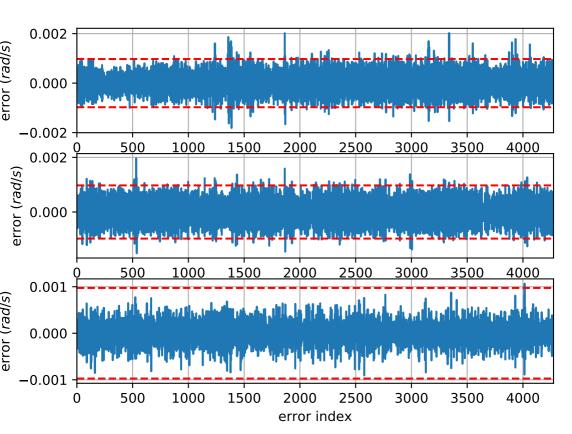
imu0: estimated accelerometer bias (imu frame)



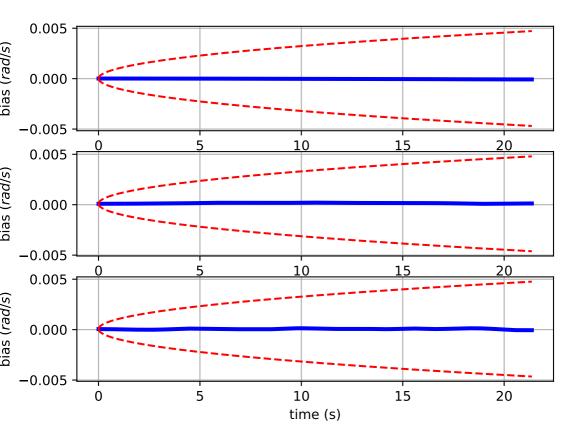
Comparison of predicted and measured angular velocities (body frame)



imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors

