```
Calibration results
Normalized Residuals
_____
Reprojection error (cam0):
                          mean 0.12086716079890128, median 0.10886269761564488, std: 0.08031008888054947
Reprojection error (cam1):
                          mean 0.13086088196675594, median 0.11907771800421525, std: 0.08648121662999494
Gyroscope error (imu0):
                         mean 0.06120346110211338, median 0.055401383814520054, std: 0.036969208704497894
Accelerometer error (imu0):
                          mean 0.06113051960512422, median 0.05275290394536812, std: 0.03844506885738438
Residuals
Reprojection error (cam0) [px]:
                              mean 0.12086716079890128, median 0.10886269761564488, std:
0.08031008888054947
Reprojection error (cam1) [px]:
                              mean 0.13086088196675594, median 0.11907771800421525, std:
0.08648121662999494
Gyroscope error (imu0) [rad/s]:
                              mean 0.001822538140388418, median 0.0016497618470268799, std:
0.0011008820689325412
Accelerometer error (imu0) [m/s^2]: mean 0.010474618497516557, median 0.009039127215557788, std:
0.006587502151022128
Transformation (cam0):
T ci: (imu0 to cam0):
[[ 0.99999784 -0.00206263 0.00024455 0.00687069]
[ 0.00205911 0.99990486 0.01363919 0.005774391
[-0.00027266 -0.01363866 0.99990695 -0.0283505 ]
Γ0.
        Ο.
                ٥.
                       1.
T ic: (cam0 to imu0):
[[ 0.99999784  0.00205911 -0.00027266 -0.0068903 ]
[-0.00206263 0.99990486 -0.01363866 -0.00614633]
[ 0.00024455  0.01363919  0.99990695  0.02826742]
Γ0.
                       1.
                             11
        Ο.
                0.
```

Transformation (cam1):

0.006317982659668221

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

```
T ci: (imu0 to cam1):
[[0.99999711 -0.00136308 0.00198091 -0.04378957]
[ 0.00134497  0.99995757  0.00911343  0.00587099]
[-0.00199325 -0.00911074 0.99995651 -0.02911598]
10.
        0.
               0.
                       1. 11
T ic: (cam1 to imu0):
[[0.99999711 0.00134497 -0.00199325 0.04372351]
[-0.00136308 0.99995757 -0.00911074 -0.00619569]
 0.00198091 0.00911343 0.99995651 0.029147951
               0.
[ 0. 0.
                     1. 11
timeshift cam1 to imu0: [s] (t imu = t cam + shift)
0.006345345683594467
Baselines:
Baseline (cam0 to cam1):
[[ 0.99999825  0.00072317  0.00172665 -0.05061547]
[-0.00071535 0.9999895 -0.00452586 -0.00002674]
[-0.00172991 0.00452462 0.99998827 -0.00078005]
[ 0.
        0.
                0.
                       1.
                            - 11
baseline norm: 0.050621490035511675 [m]
Gravity vector in target coords: [m/s^2]
[ 9.80431313  0.10433367 -0.18160793]
Calibration configuration
```

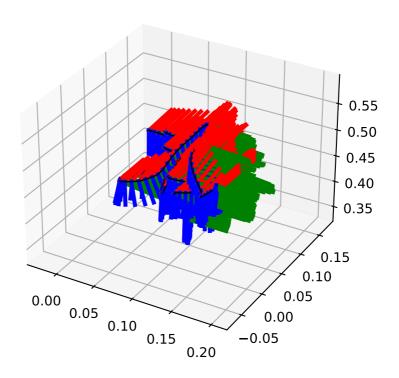
cam0

```
Camera model: pinhole
 Focal length: [385.9663579533714, 386.66632586105874]
 Principal point: [326.31560591362586, 228.94820856640544]
 Distortion model: radtan
 Distortion coefficients: [-0.006216881543788755, -0.008965831146637354, -0.006699760163435405,
0.0047223320984365691
Type: checkerboard
 Rows
  Count: 8
  Distance: 0.0248 [m]
 Cols
  Count: 6
  Distance: 0.0248 [m]
cam1
 Camera model: pinhole
 Focal length: [386.5092116377738, 386.6137952578704]
 Principal point: [324.9424812770913, 231.01404187987941]
 Distortion model: radtan
 Distortion coefficients: [0.0008912292688776762, -0.049744871536725306, -0.003605966286580121,
0.00287944305972020471
 Type: checkerboard
 Rows
 Count: 8
  Distance: 0.0248 [m]
 Cols
  Count: 6
  Distance: 0.0248 [m]
IMU configuration
-----
IMU0:
```

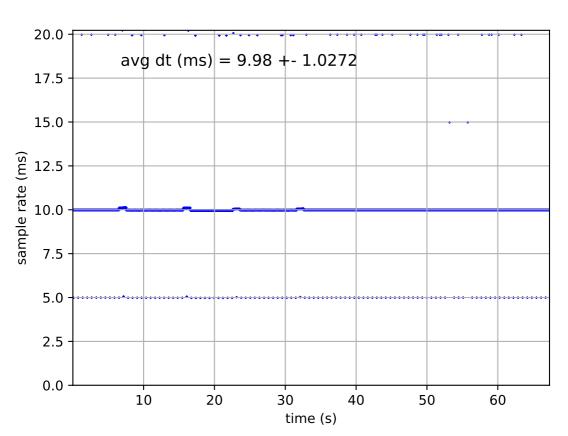
```
Model: calibrated Update rate: 200.0 Accelerometer: Noise density: 0.01211616360825951 Noise density (discrete): 0.17134842898731933 Random walk: 0.00023267111948367786 Gyroscope: Noise density: 0.002105647384695487 Noise density (discrete): 0.029778350890117954 Random walk: 1.6015774431543977e-05 T_ib (imu0 to imu0) [[1. 0. 0. 0.] [0. 1. 0. 0.] [0. 0. 1. 0.] [0. 0. 1. 0.]
```

time offset with respect to IMU0: 0.0 [s]

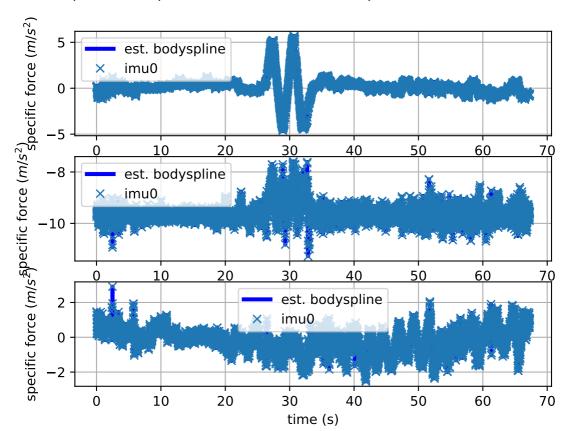
imu0: estimated poses



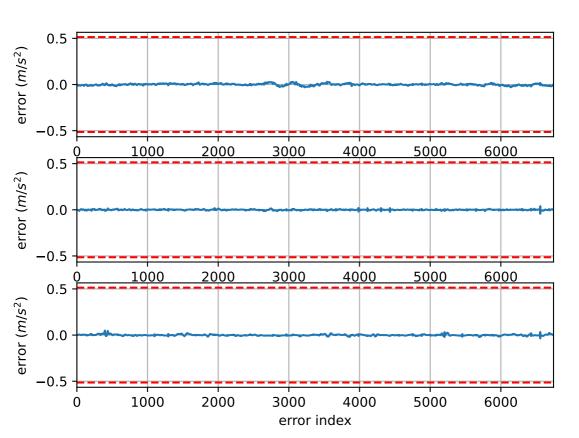
imu0: sample inertial rate



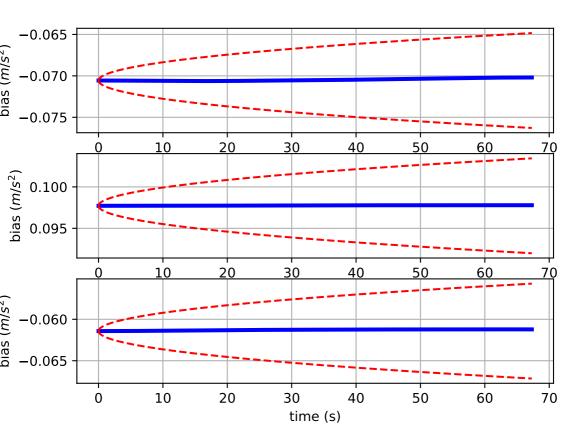
Comparison of predicted and measured specific force (imu0 frame)



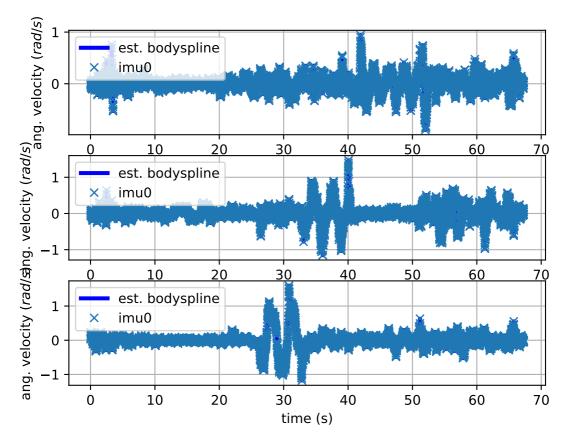
imu0: acceleration error



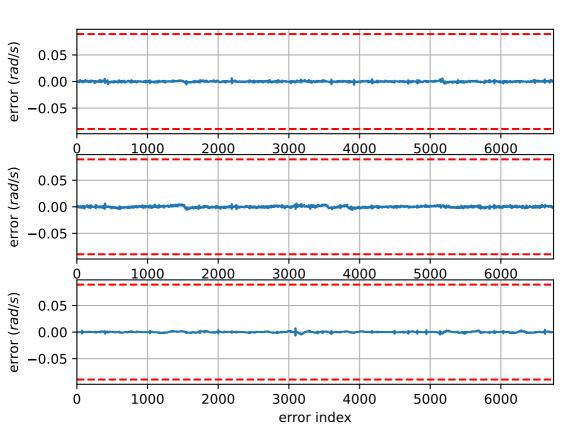
imu0: estimated accelerometer bias (imu frame)



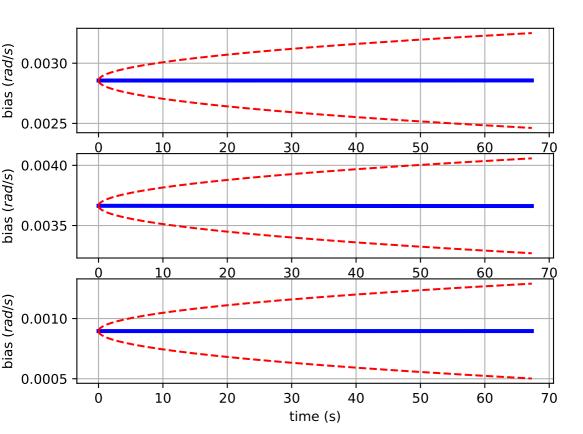
Comparison of predicted and measured angular velocities (body frame)



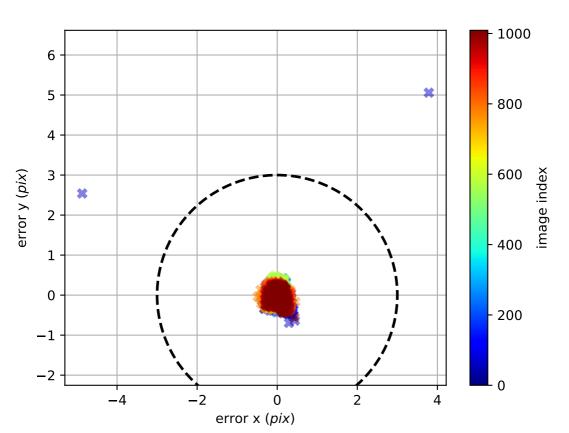
imu0: angular velocities error



imu0: estimated gyro bias (imu frame)



cam0: reprojection errors



cam1: reprojection errors

