

glut_med1_r

RMSE = 65.796

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

400

300

200

100

0

0.0

0.5

1.0

1.5

2.0

2.5

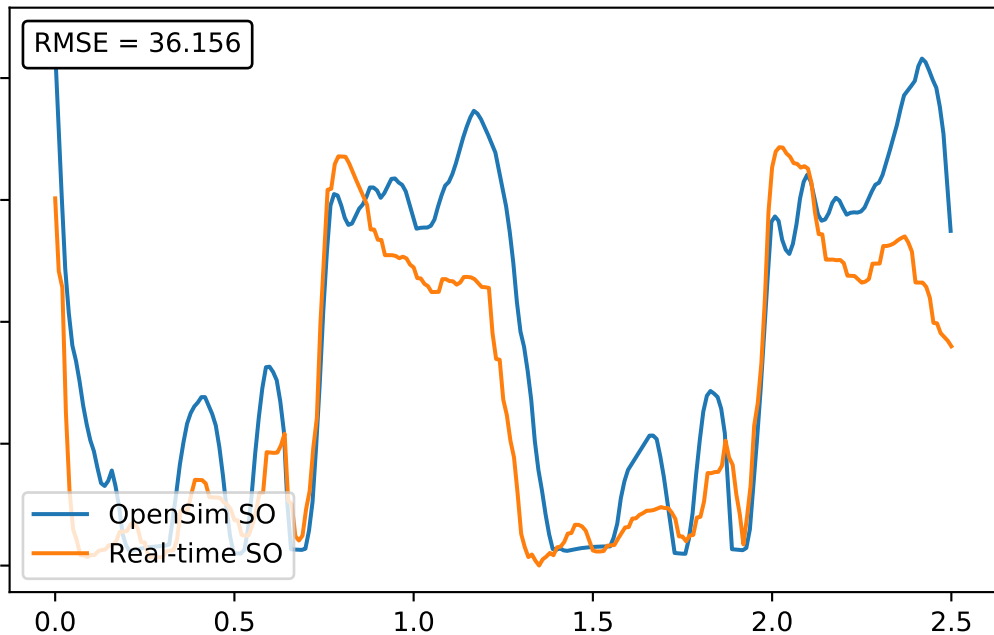
glut_med2_r

RMSE = 36.156

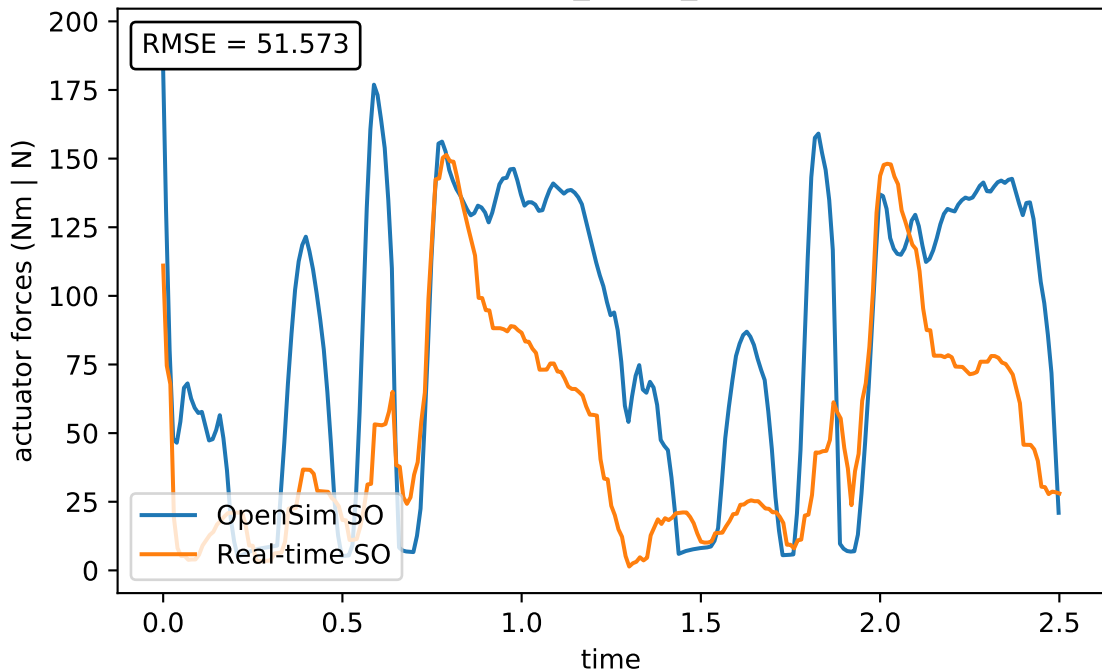
actuator forces (Nm | N)

OpenSim SO
Real-time SO

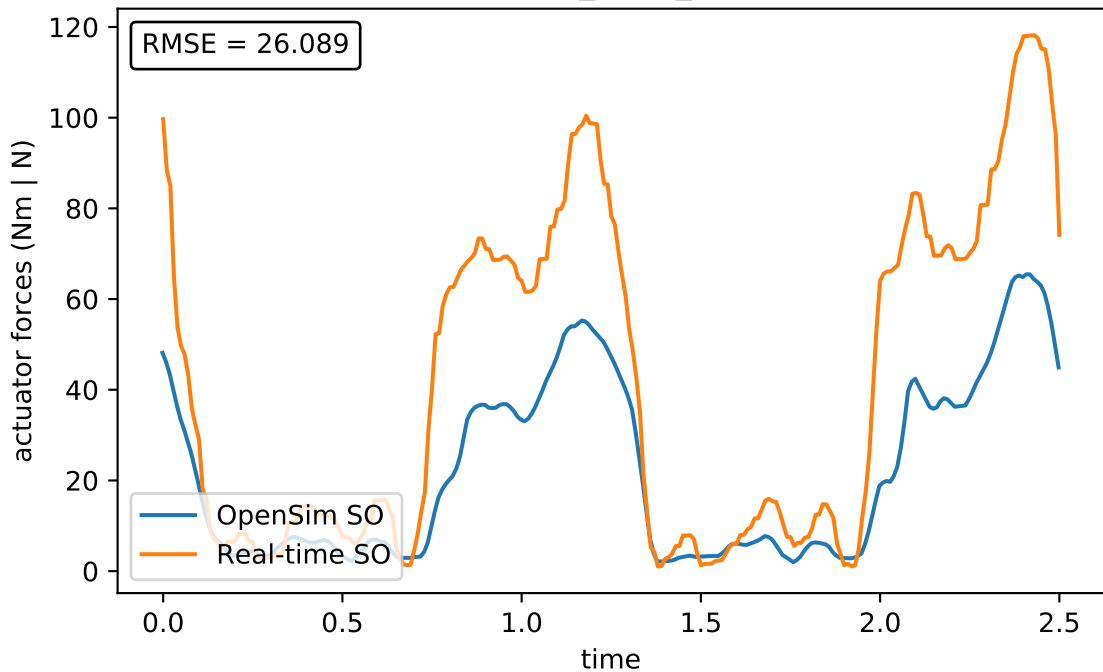
time



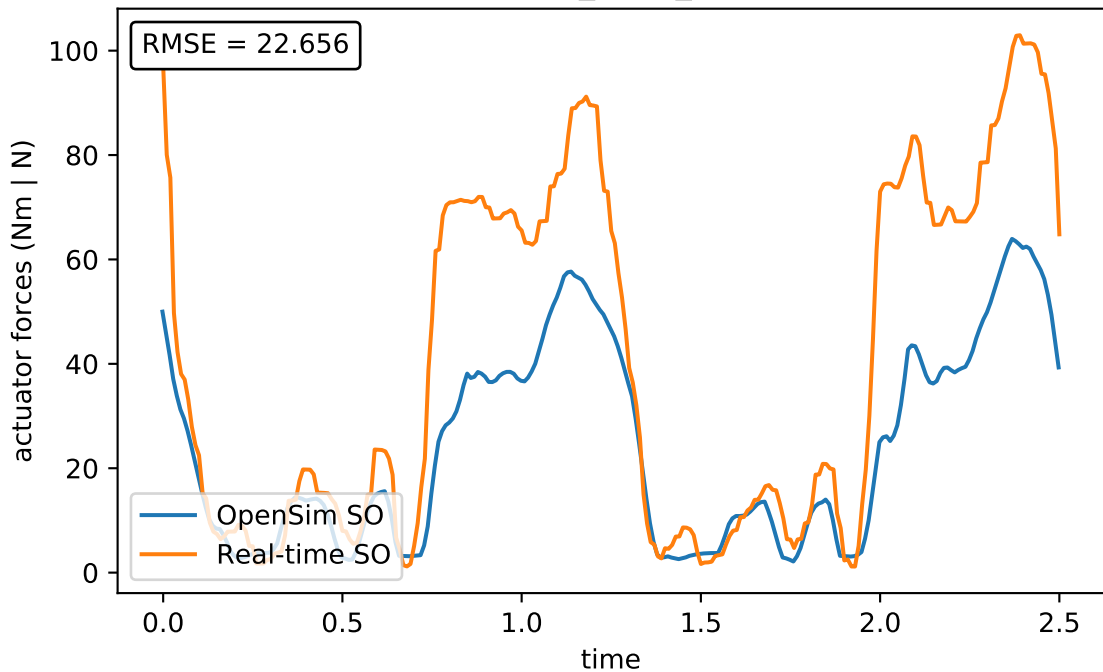
glut_med3_r



glut_min1_r



glut_min2_r



glut_min3_r

RMSE = 15.404

actuator forces (Nm | N)

— OpenSim SO
— Real-time SO

time

0.0

0.5

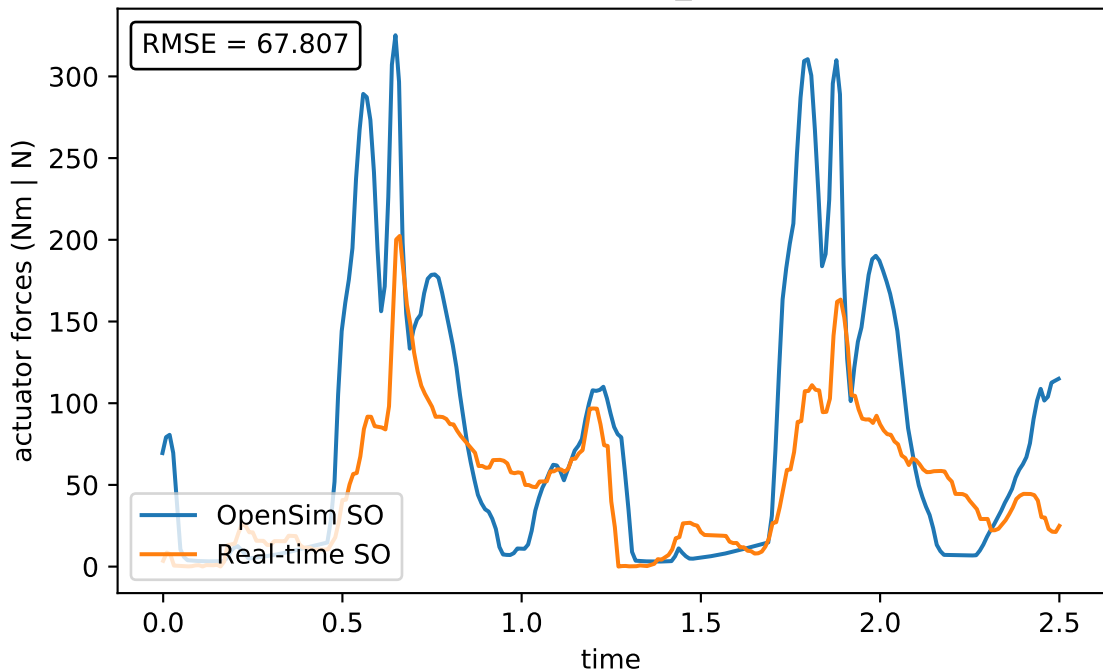
1.0

1.5

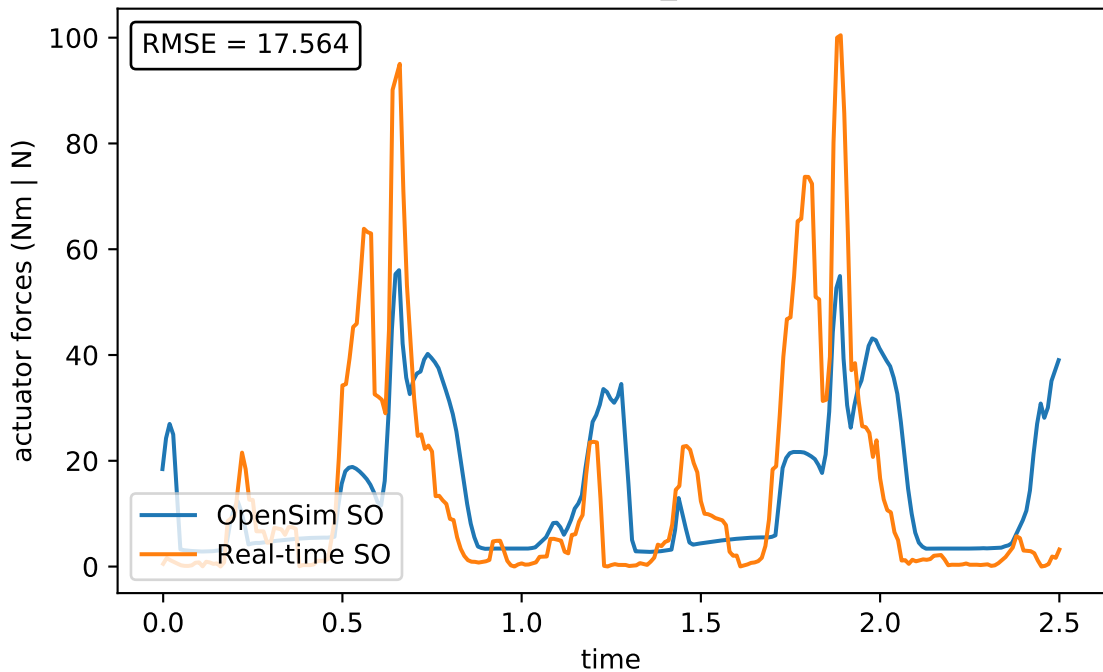
2.0

2.5

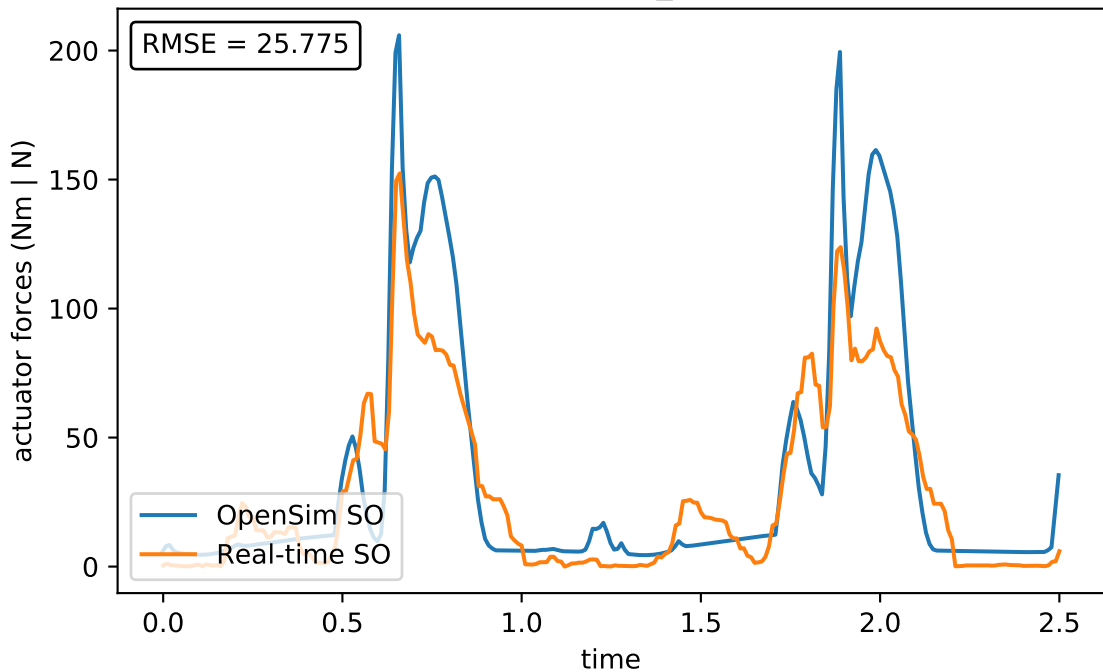
semimem_r



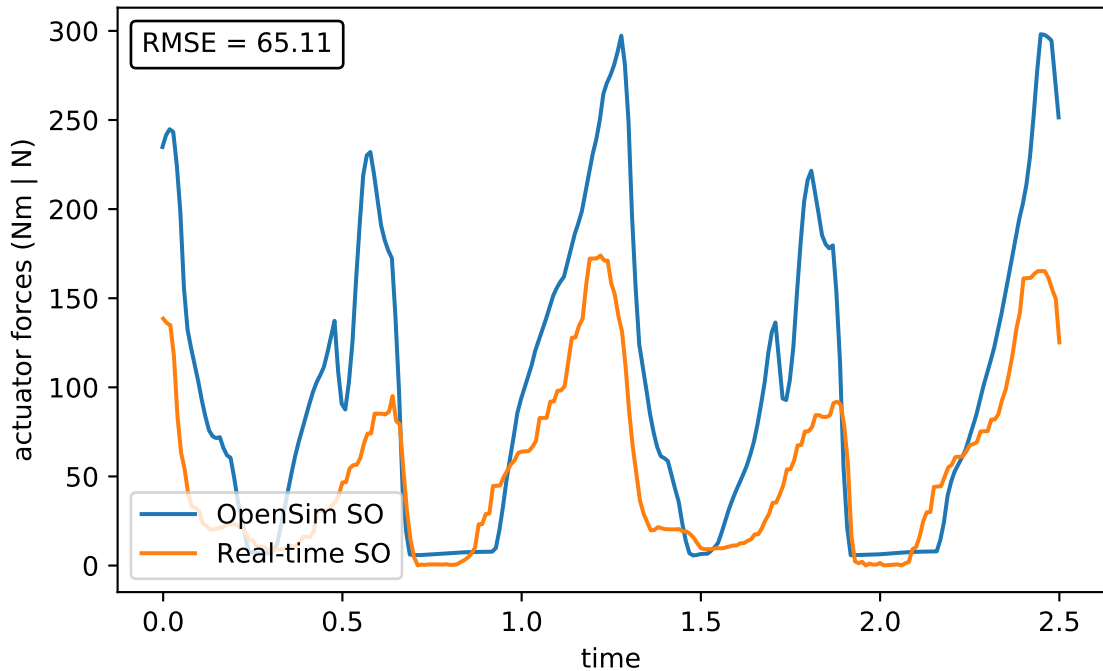
semiten_r



bifemlh_r



bifemsh_r



sar_r

RMSE = 33.249

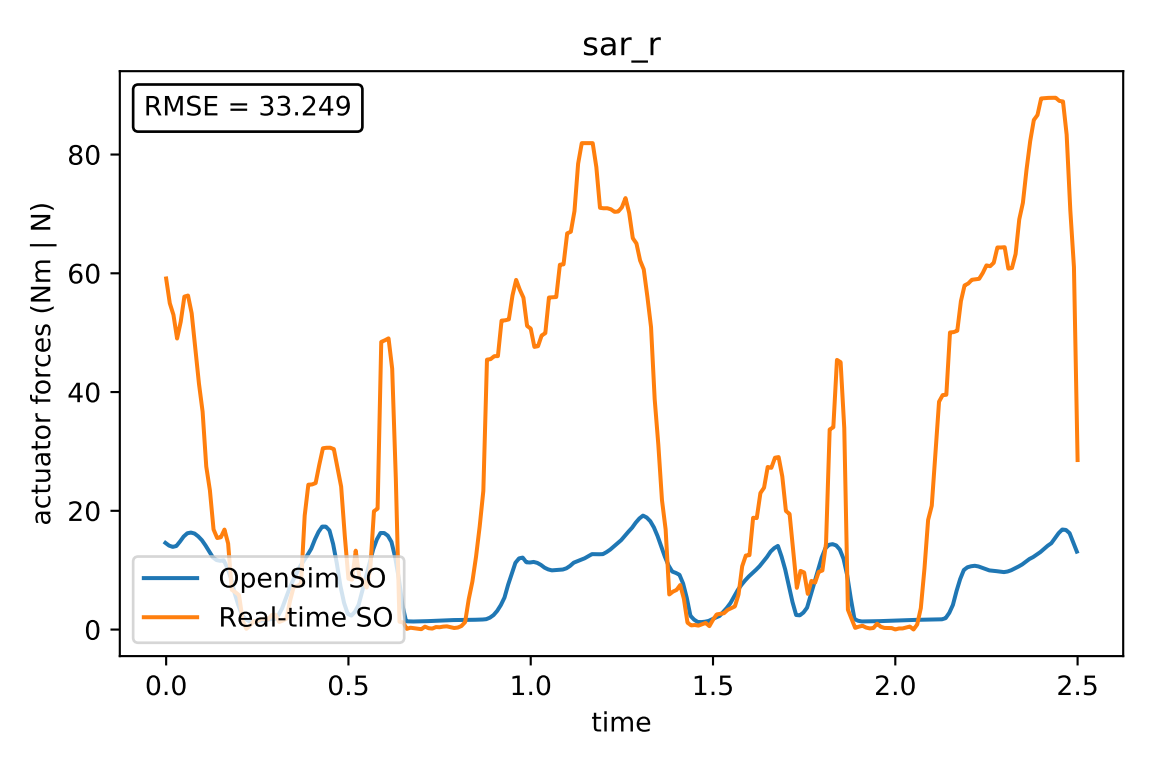
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

80
60
40
20
0



add_long_r

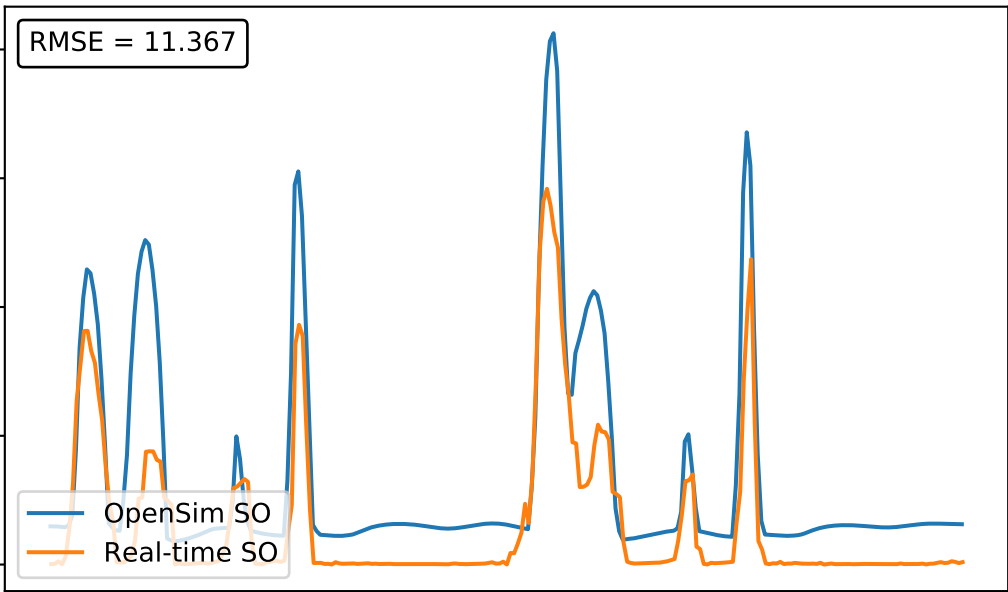
RMSE = 11.367

actuator forces (Nm | N)

OpenSim SO
Real-time SO

0.0 0.5 1.0 1.5 2.0 2.5
time

80
60
40
20
0



add_brev_r

RMSE = 5.994

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

0.5

1.0

1.5

2.0

2.5

50

40

30

20

10

0

add_mag1_r

RMSE = 5.216

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

0.5

1.0

1.5

2.0

2.5

50

40

30

20

10

0

add_mag2_r

RMSE = 6.022

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

0.5

1.0

1.5

2.0

2.5

50

40

30

20

10

0

add_mag3_r

RMSE = 13.561

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

100

80

60

40

20

0

0.0

0.5

1.0

1.5

2.0

2.5

tfl_r

RMSE = 48.957

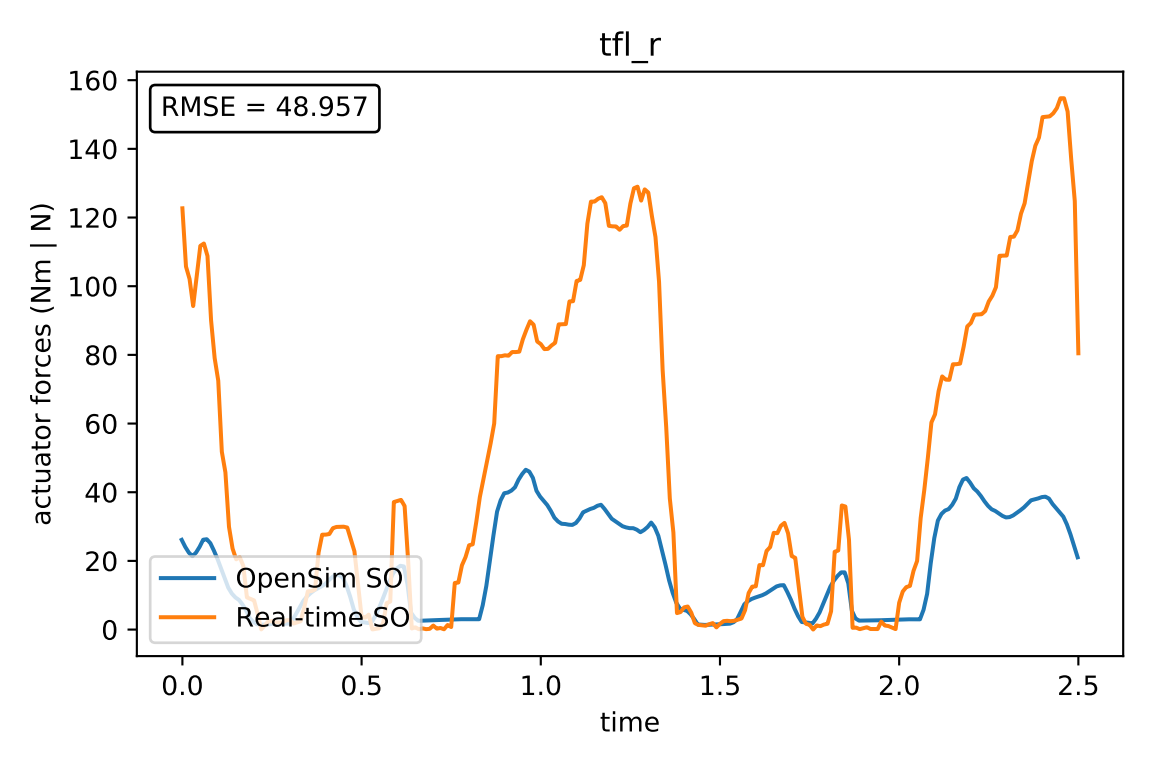
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

160
140
120
100
80
60
40
20
0



pect_r

RMSE = 3.847

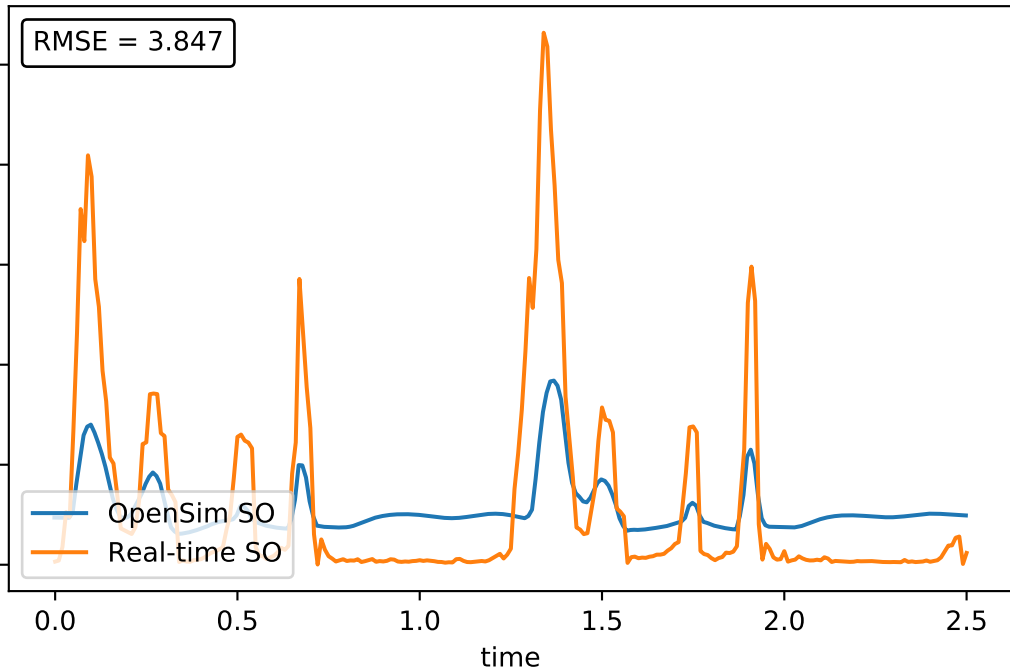
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

25
20
15
10
5
0



grac_r

RMSE = 5.211

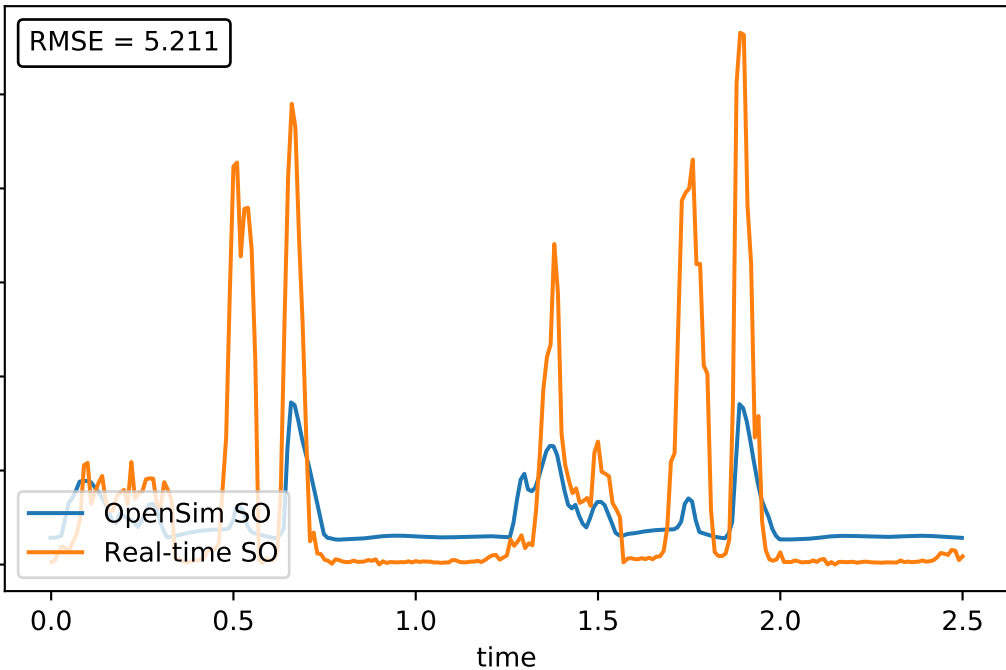
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

25
20
15
10
5
0



glut_max1_r

RMSE = 37.182

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

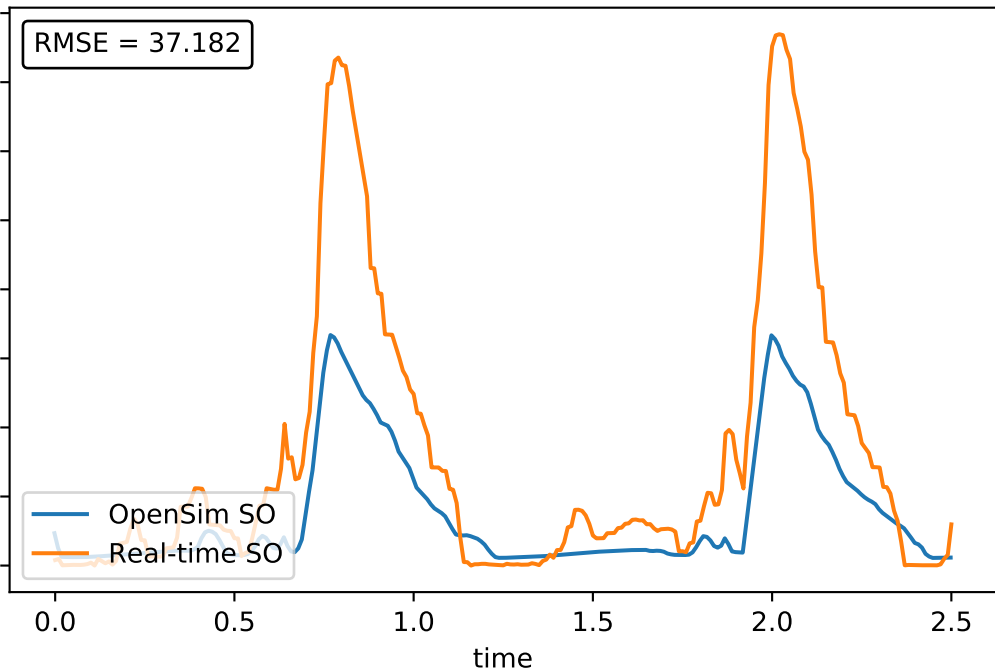
0.5

1.0

1.5

2.0

2.5



glut_max2_r

RMSE = 29.03

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

0.5

1.0

1.5

2.0

2.5

200

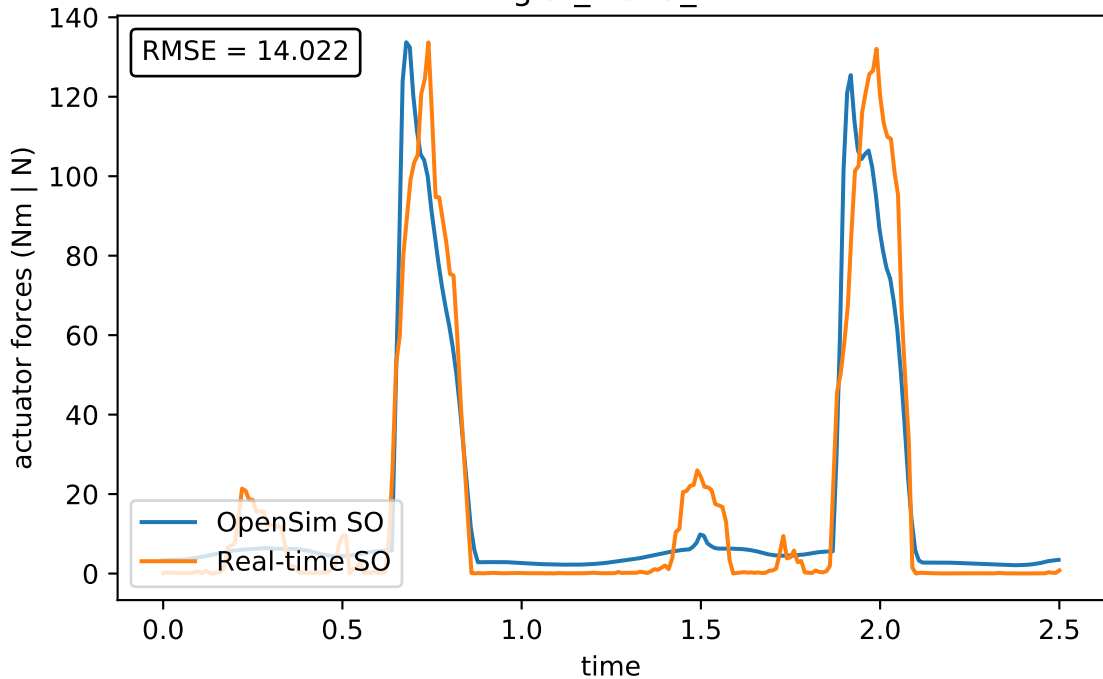
150

100

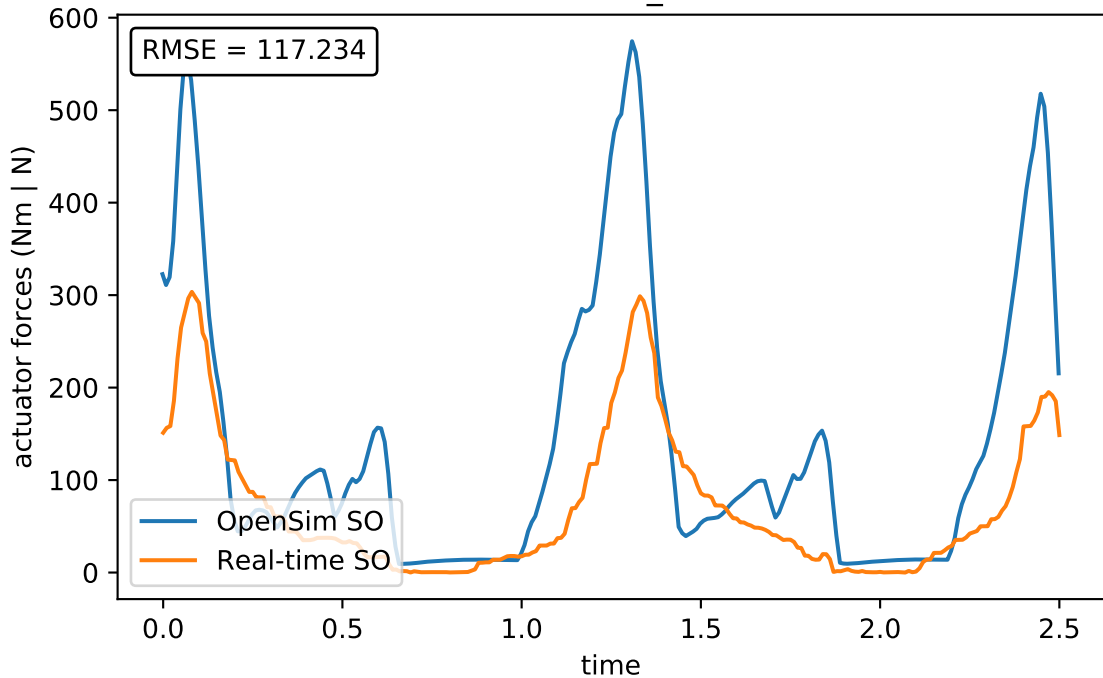
50

0

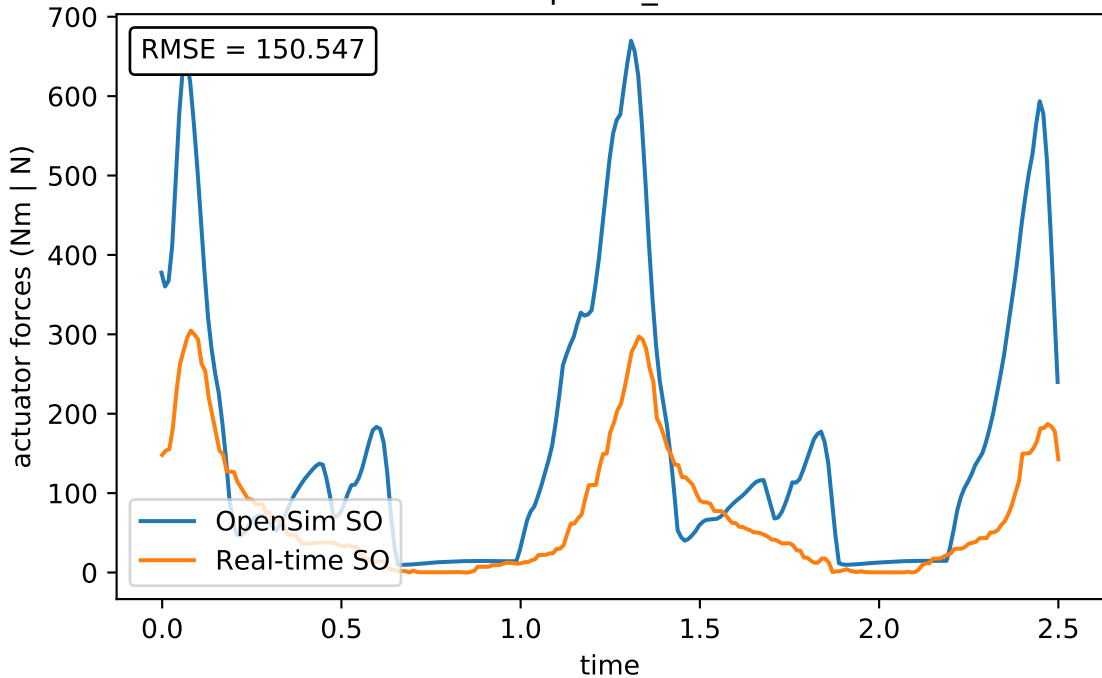
glut_max3_r



iliacus_r



psoas_r



quad_fem_r

RMSE = 6.287

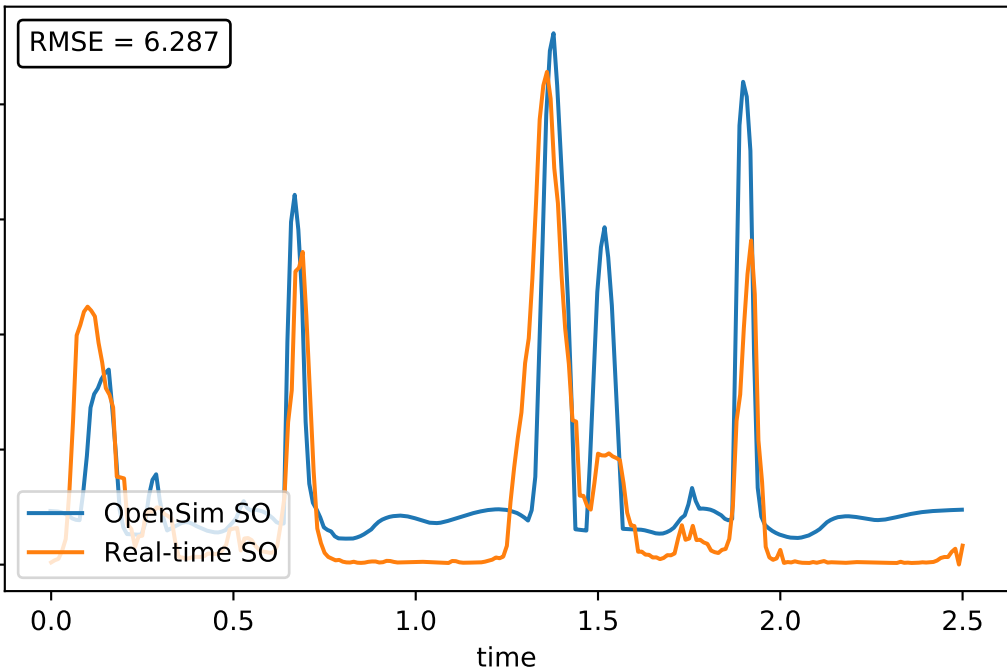
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

0 10 20 30 40



gem_r

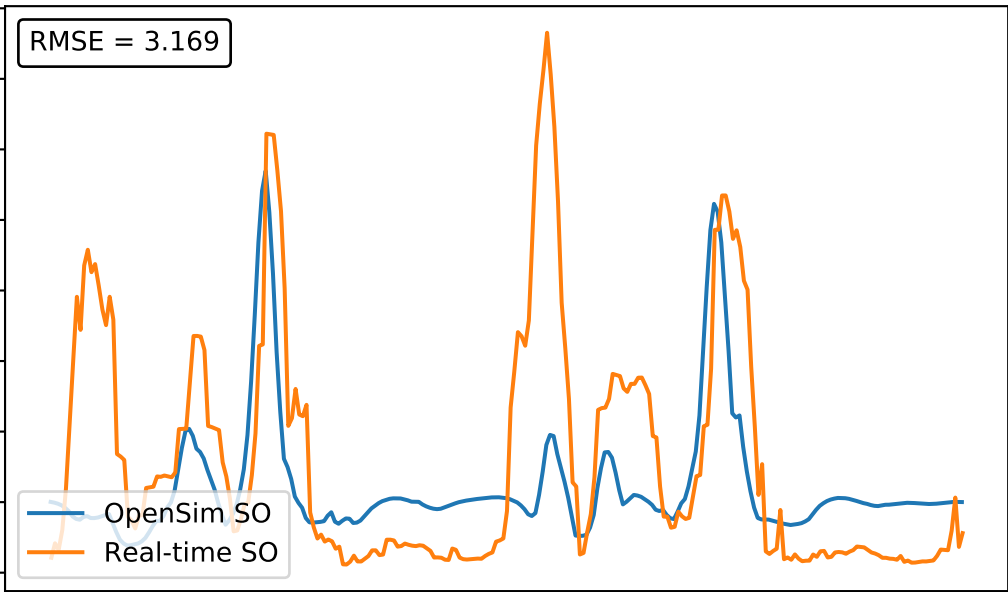
RMSE = 3.169

actuator forces (Nm | N)

— OpenSim SO
— Real-time SO

0.0 0.5 1.0 1.5 2.0 2.5

time



peri_r

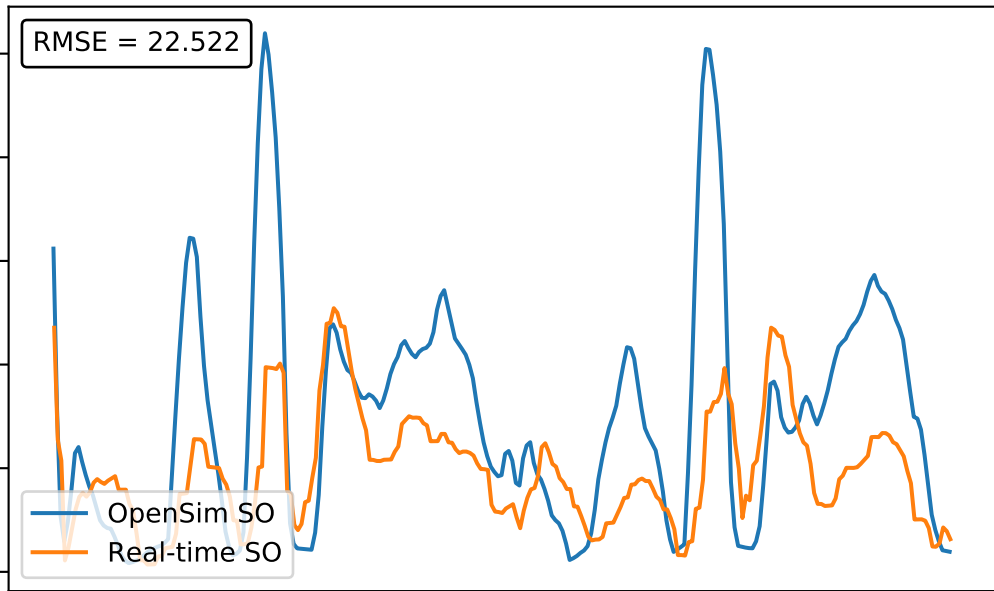
RMSE = 22.522

actuator forces (Nm | N)

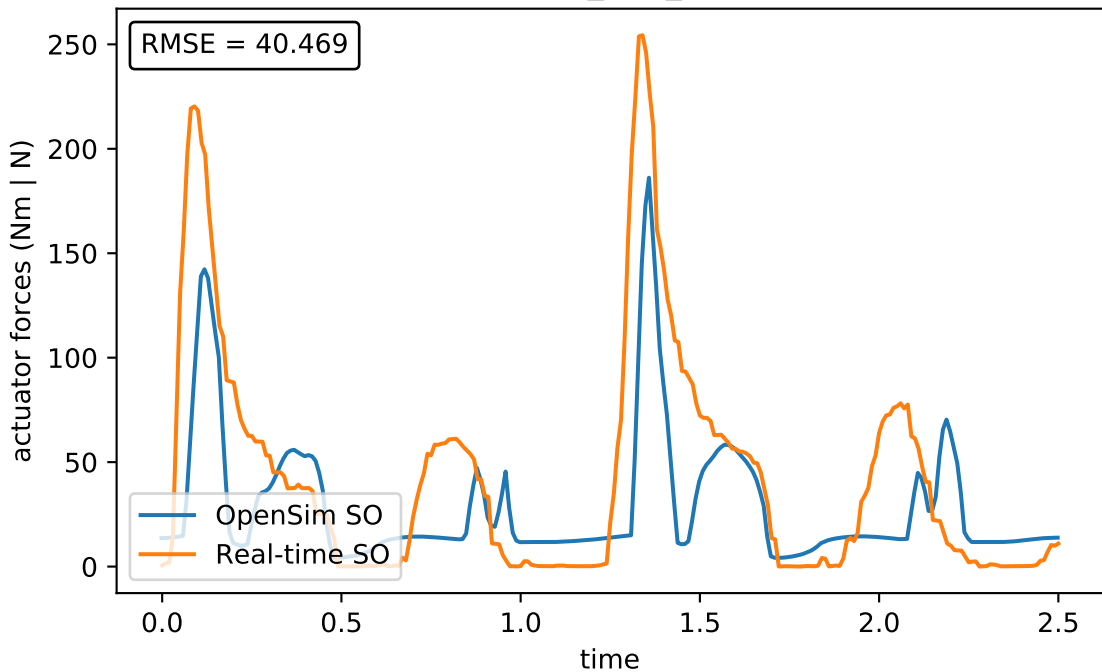
OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



rect_fem_r



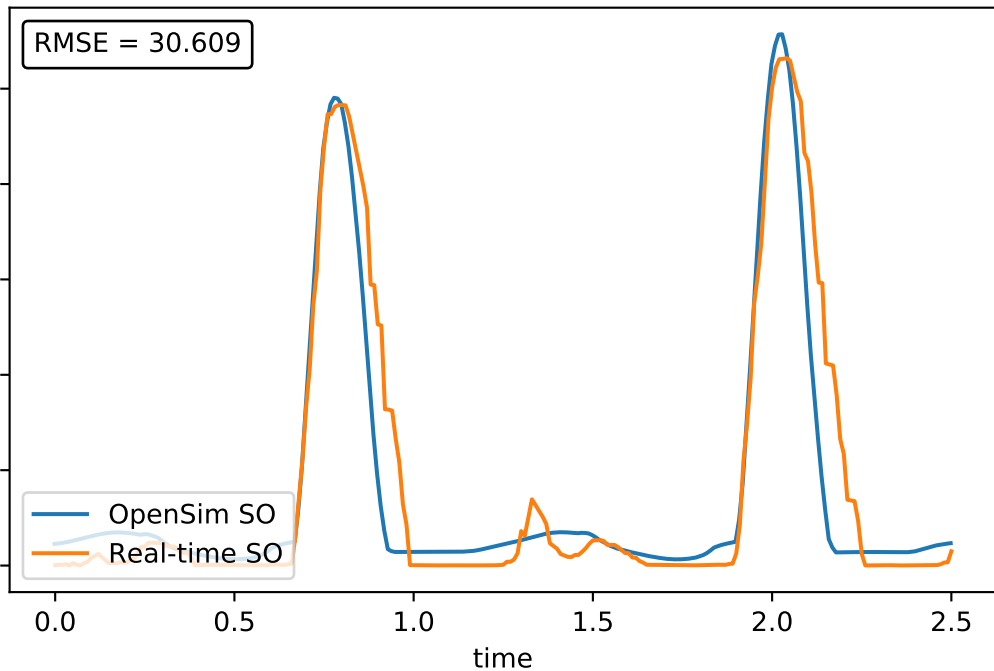
vas_med_r

RMSE = 30.609

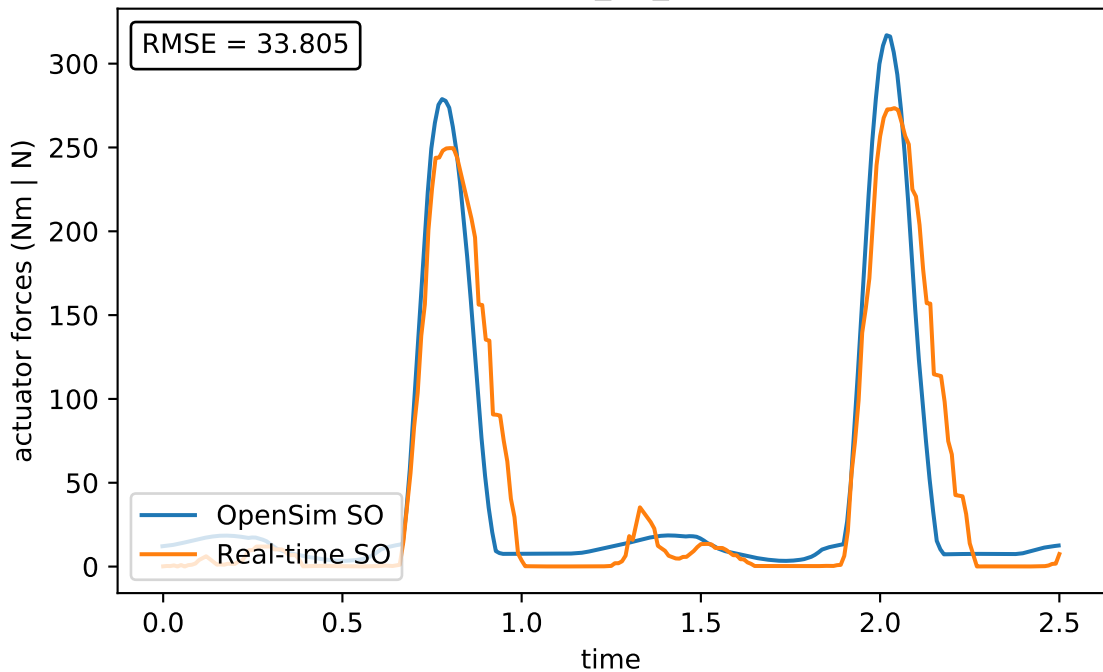
actuator forces (Nm | N)

OpenSim SO
Real-time SO

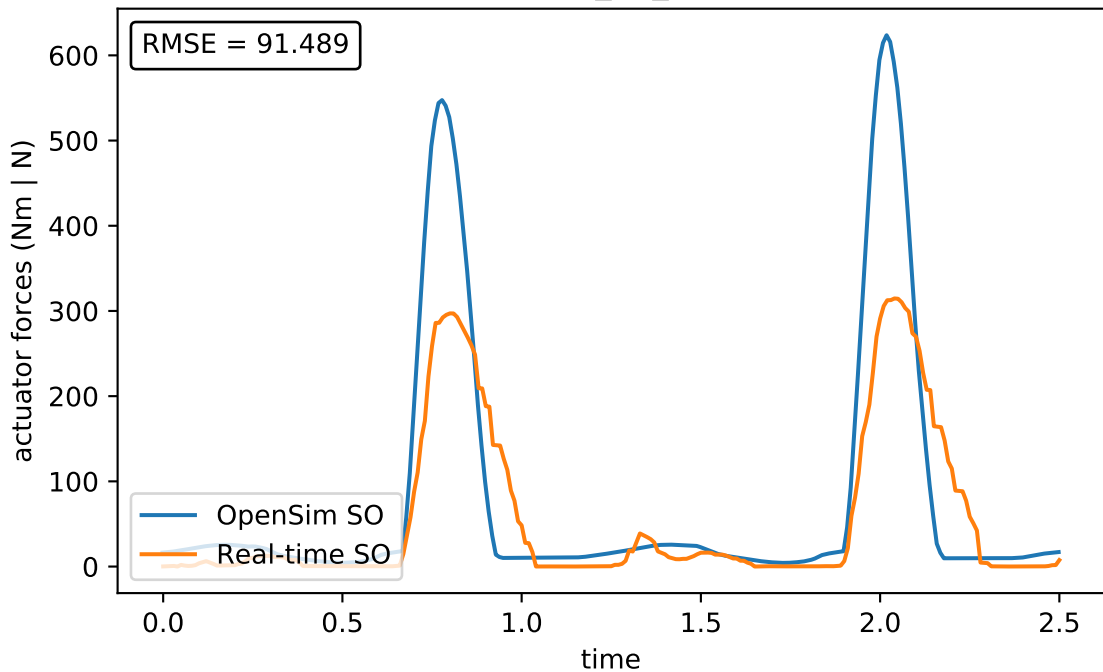
time



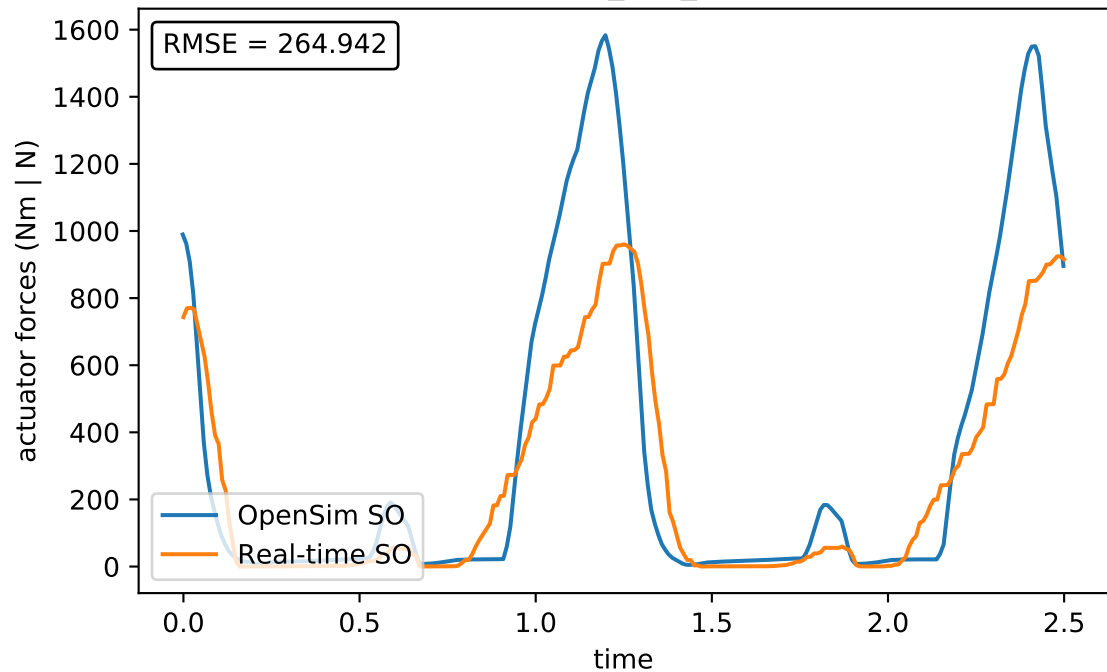
vas_int_r



vas_lat_r



med_gas_r



lat_gas_r

RMSE = 120.666

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

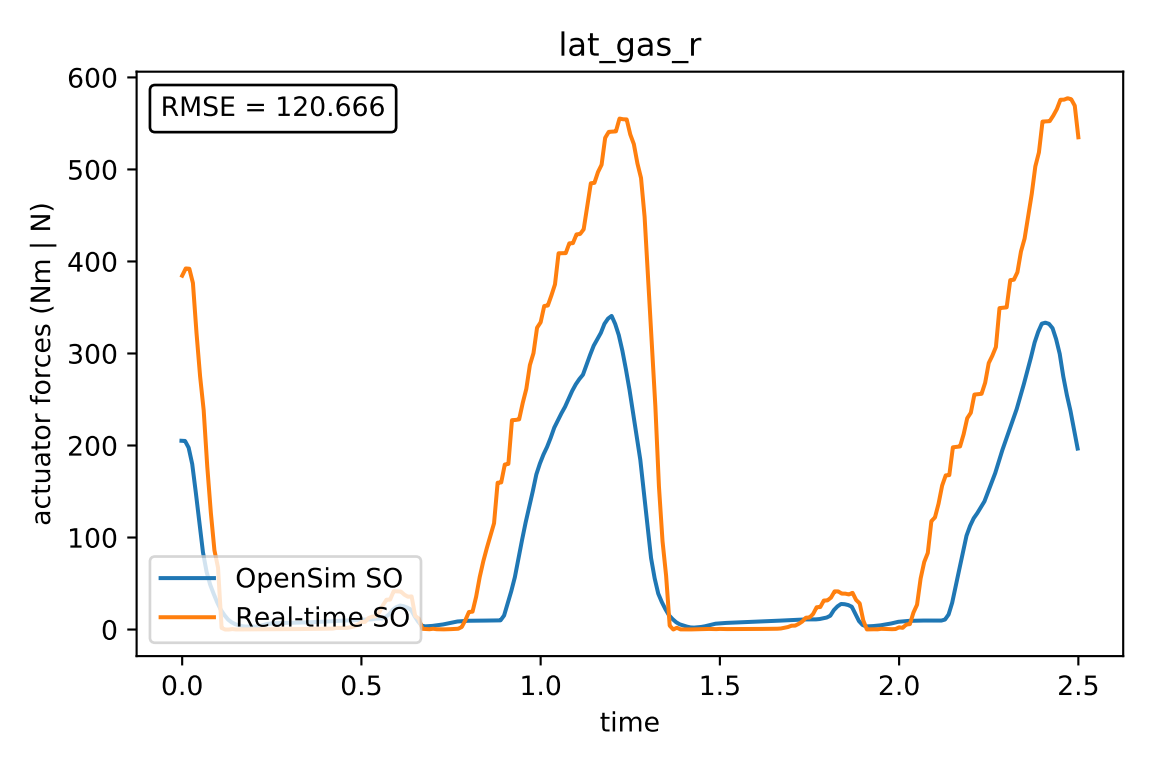
0.5

1.0

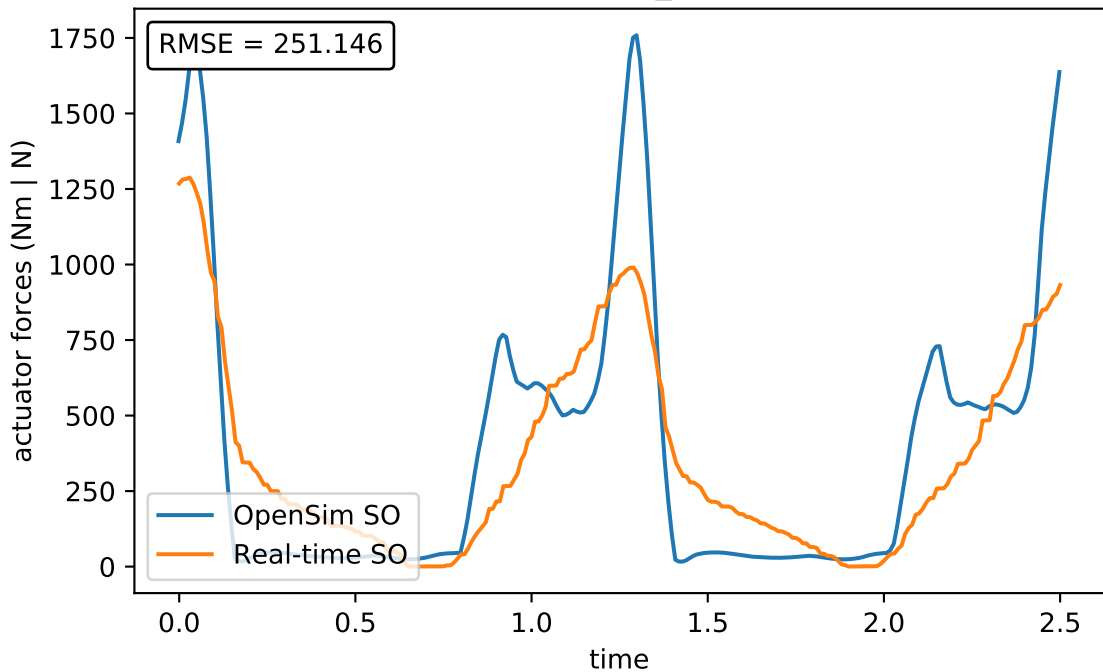
1.5

2.0

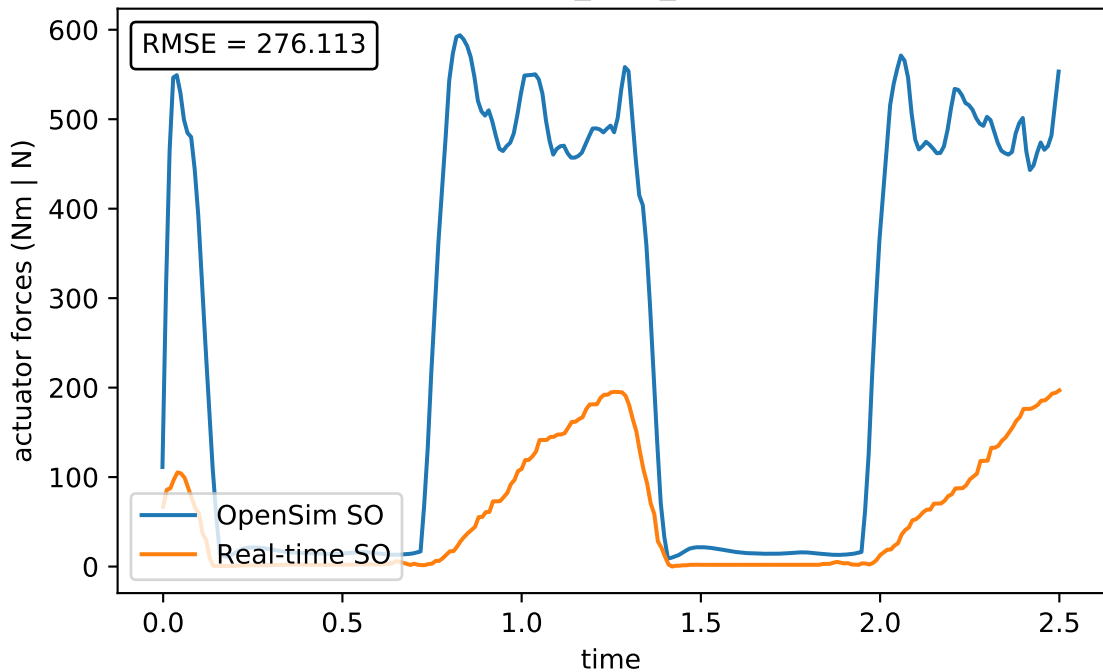
2.5



soleus_r



tib_post_r



flex_dig_r

RMSE = 11.769

actuator forces (Nm | N)

0.0

0.5

1.0

time

1.5

2.0

2.5

OpenSim SO
Real-time SO

0

10

20

30

40

50

actuator forces (Nm | N)

0.0

0.5

1.0

time

1.5

2.0

2.5

OpenSim SO
Real-time SO

0

10

20

30

40

50

flex_hal_r

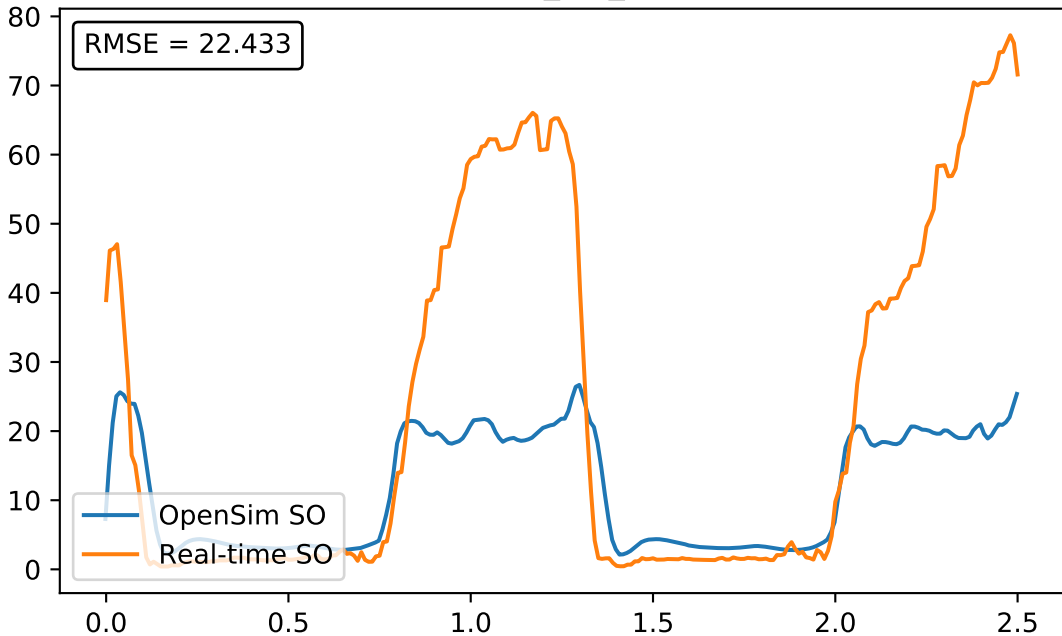
RMSE = 22.433

actuator forces (Nm | N)

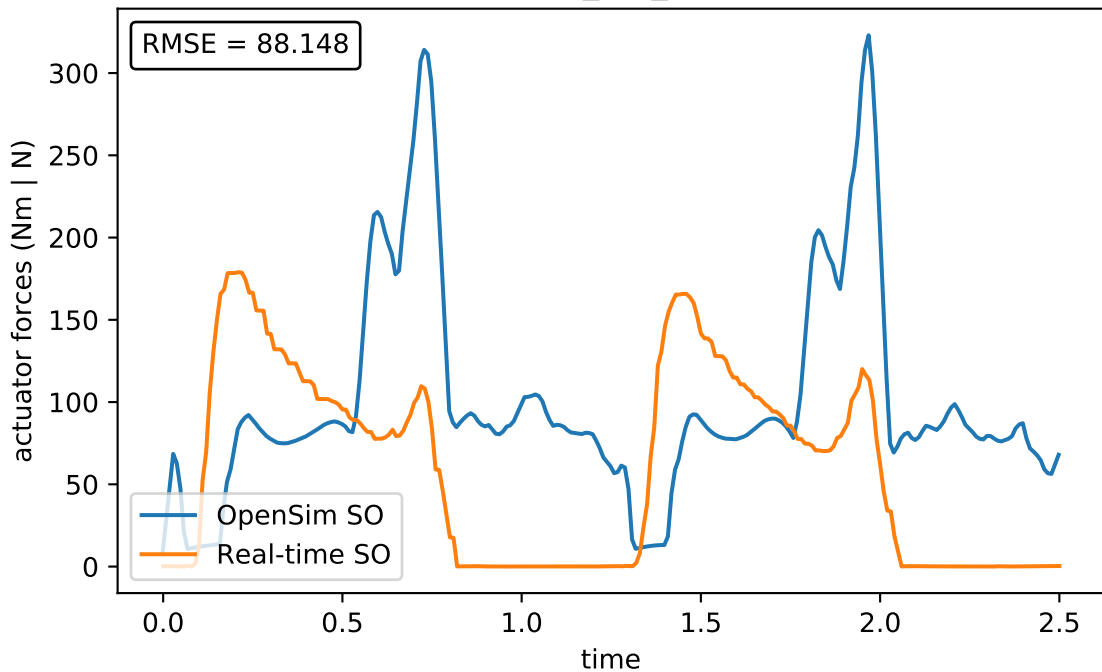
OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



tib_ant_r



per_brev_r

RMSE = 17.55

actuator forces (Nm | N)

OpenSim SO
Real-time SO

0.0

0.5

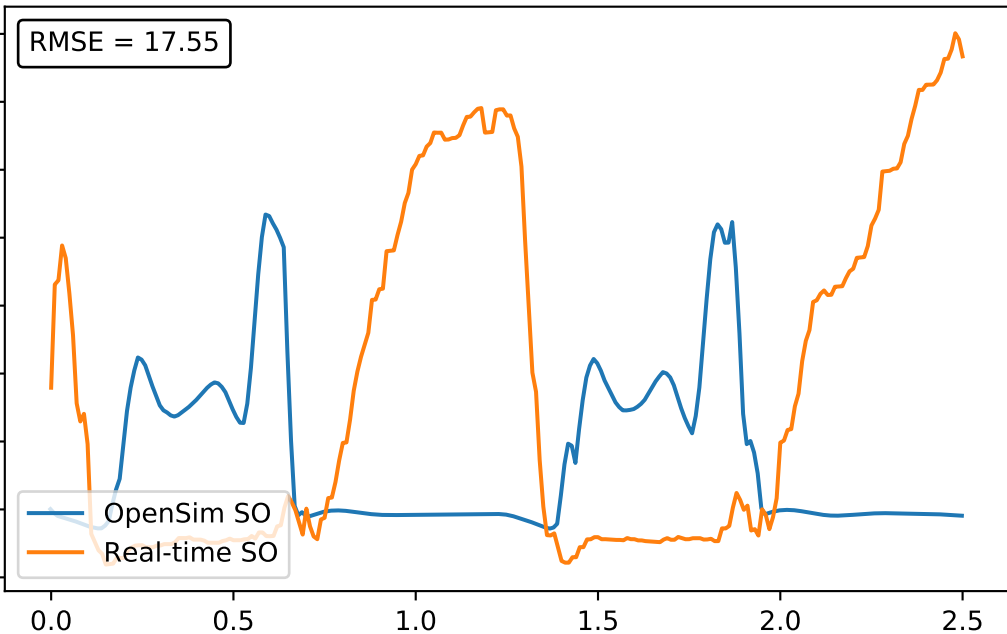
1.0

time

1.5

2.0

2.5



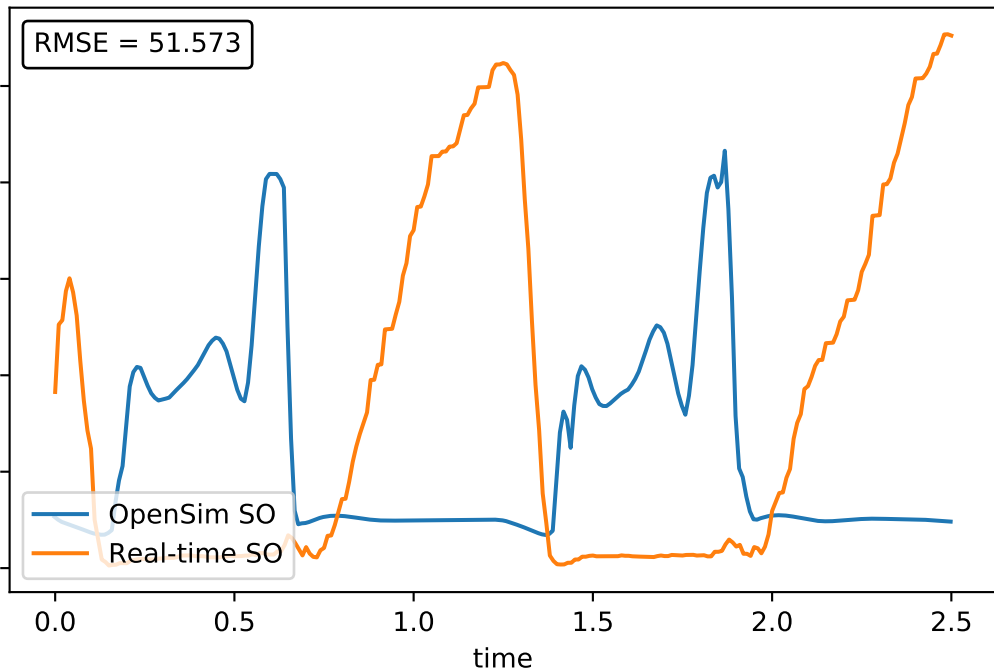
per_long_r

RMSE = 51.573

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



per_tert_r

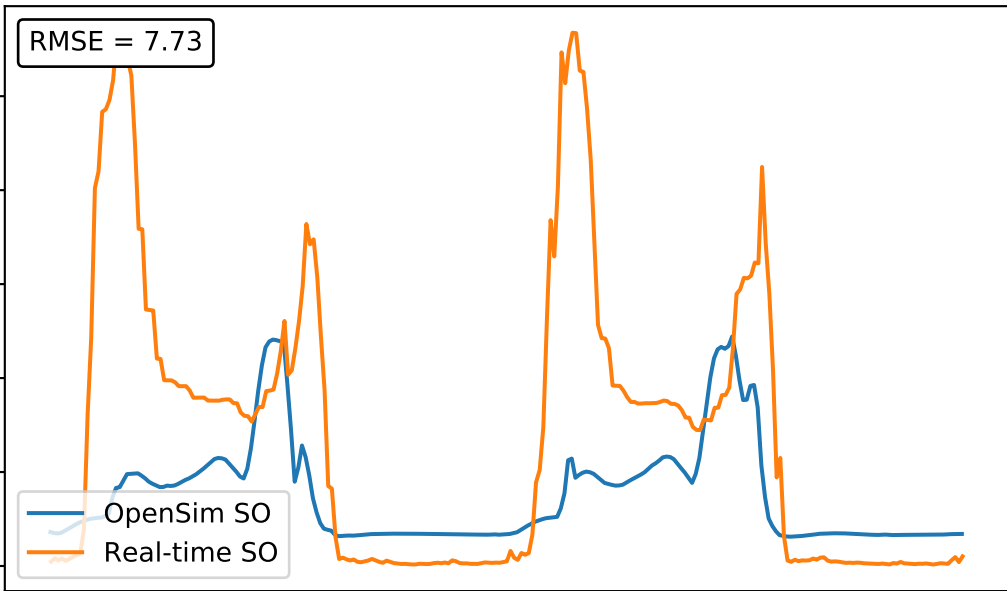
RMSE = 7.73

actuator forces (Nm | N)

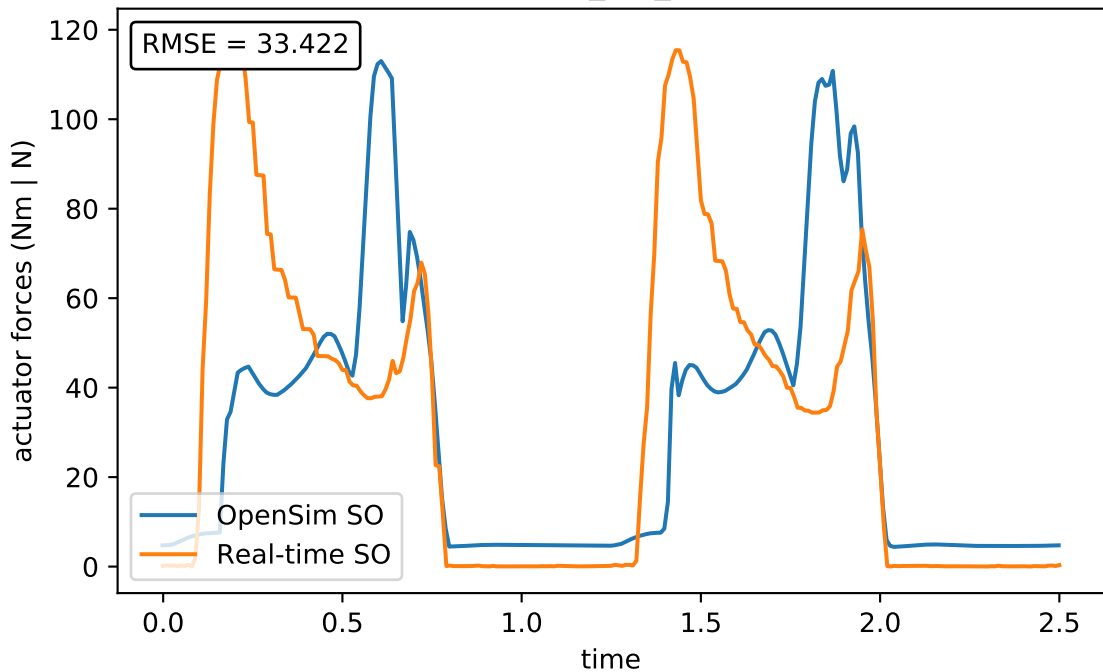
OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



ext_dig_r



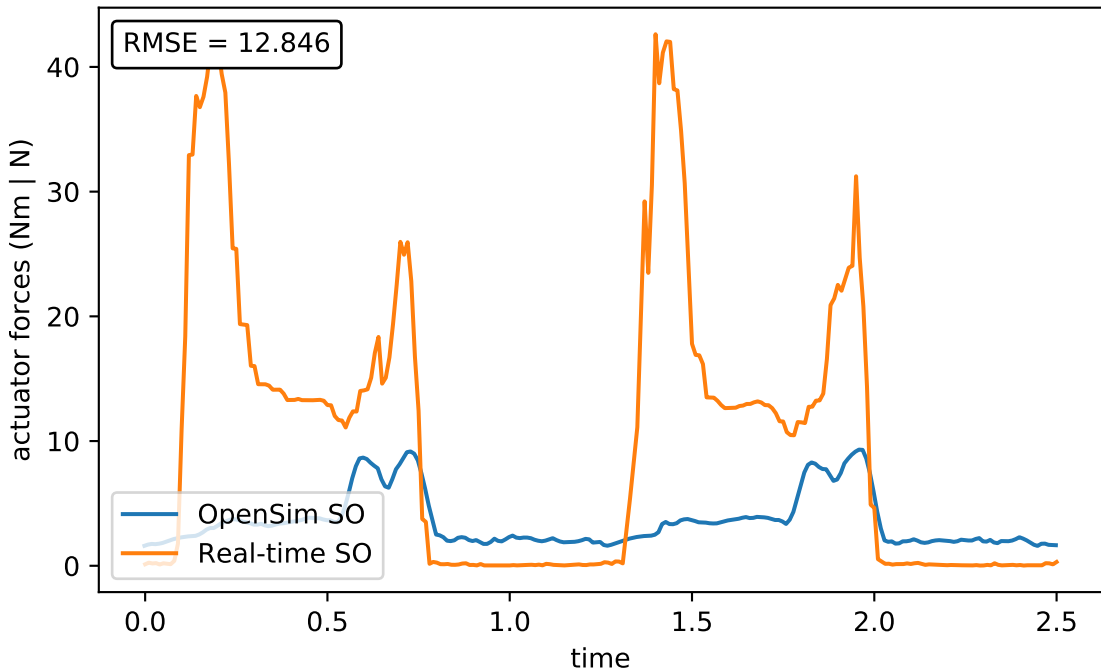
ext_hal_r

RMSE = 12.846

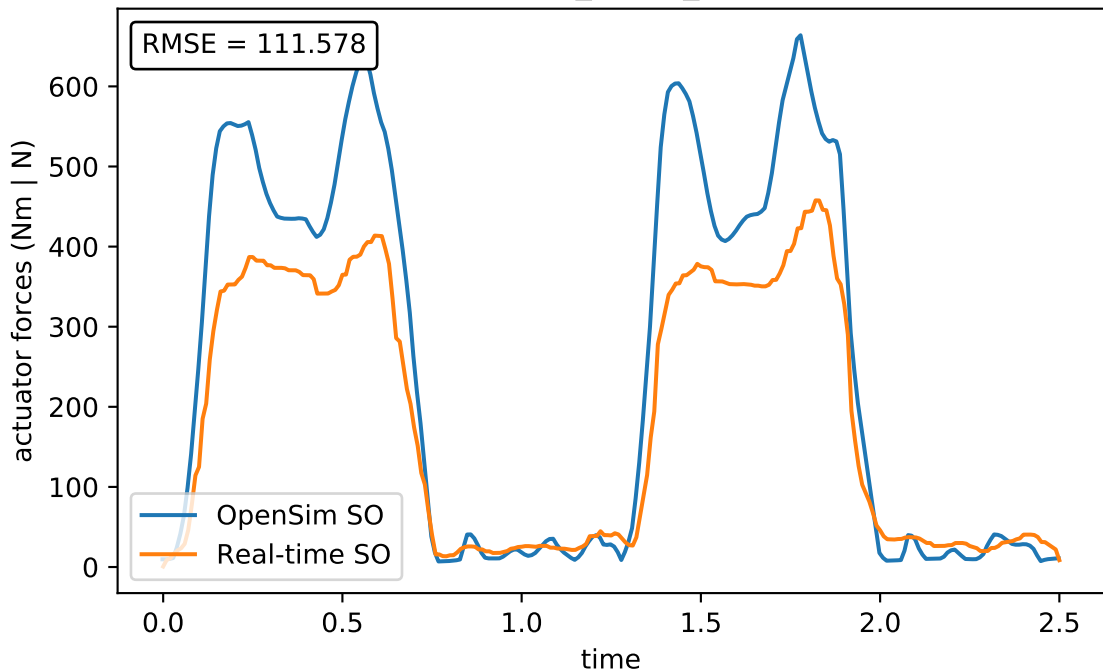
actuator forces (Nm | N)

OpenSim SO
Real-time SO

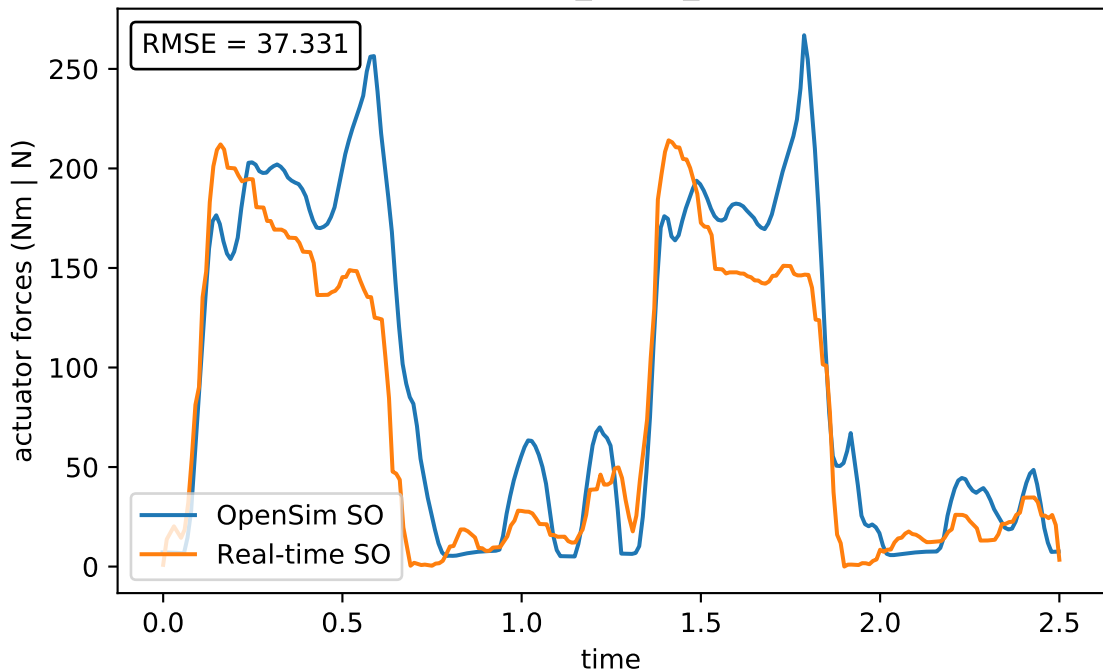
time



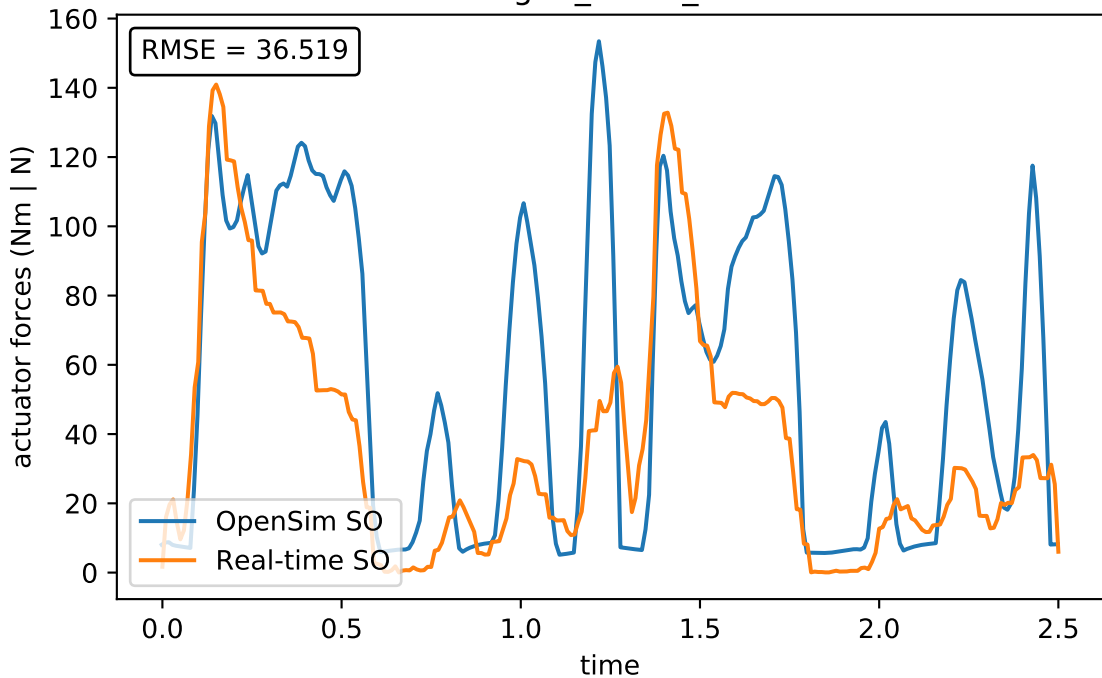
glut_med1_l



glut_med2_l



glut_med3_l



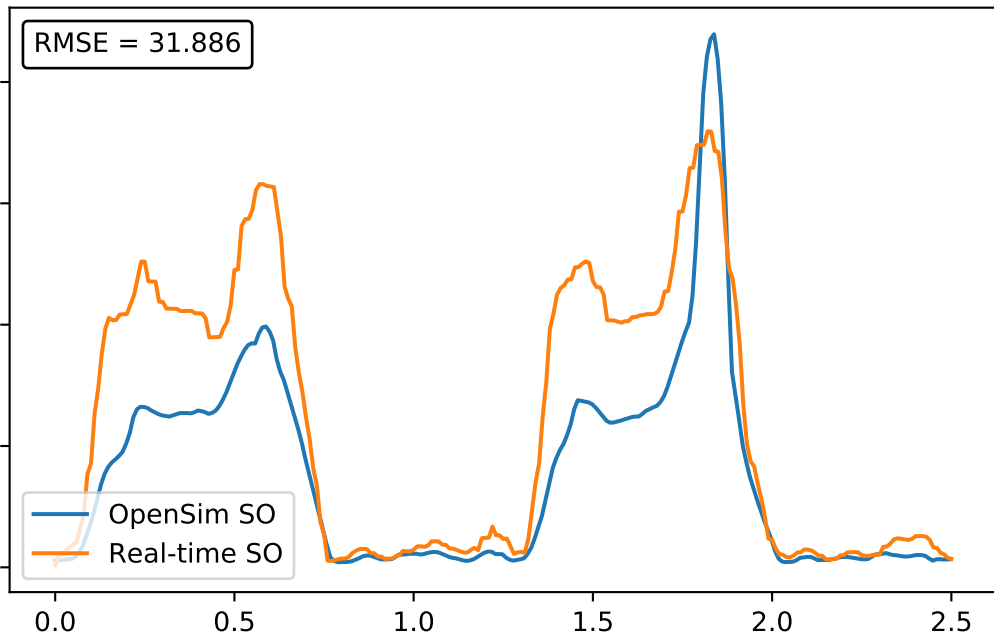
glut_min1_l

RMSE = 31.886

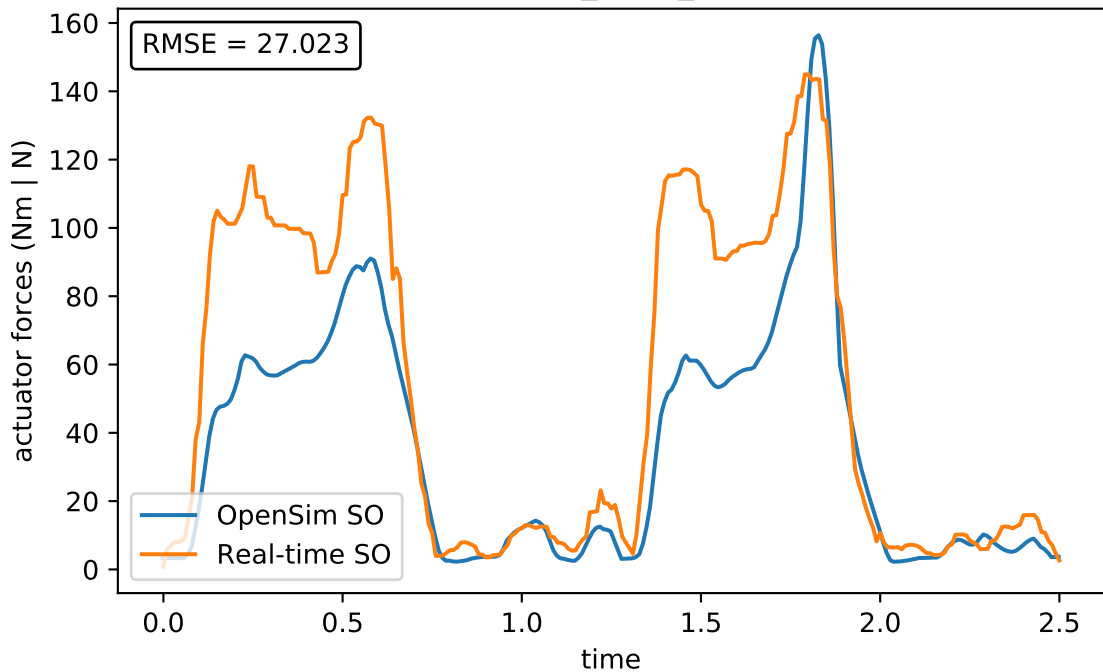
actuator forces (Nm | N)

OpenSim SO
Real-time SO

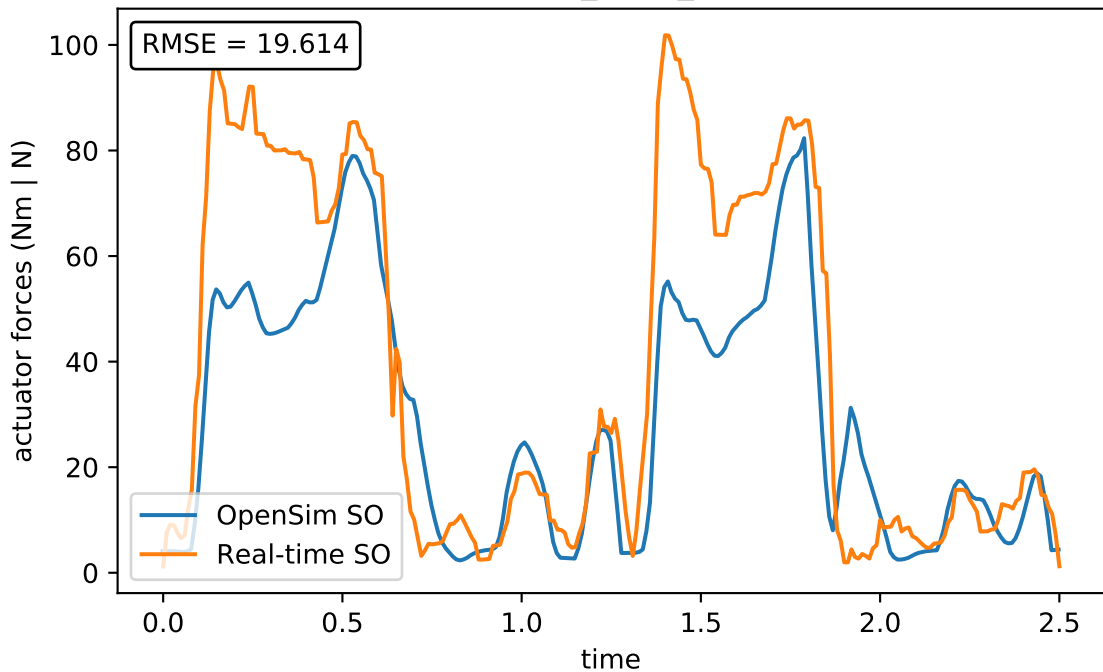
time



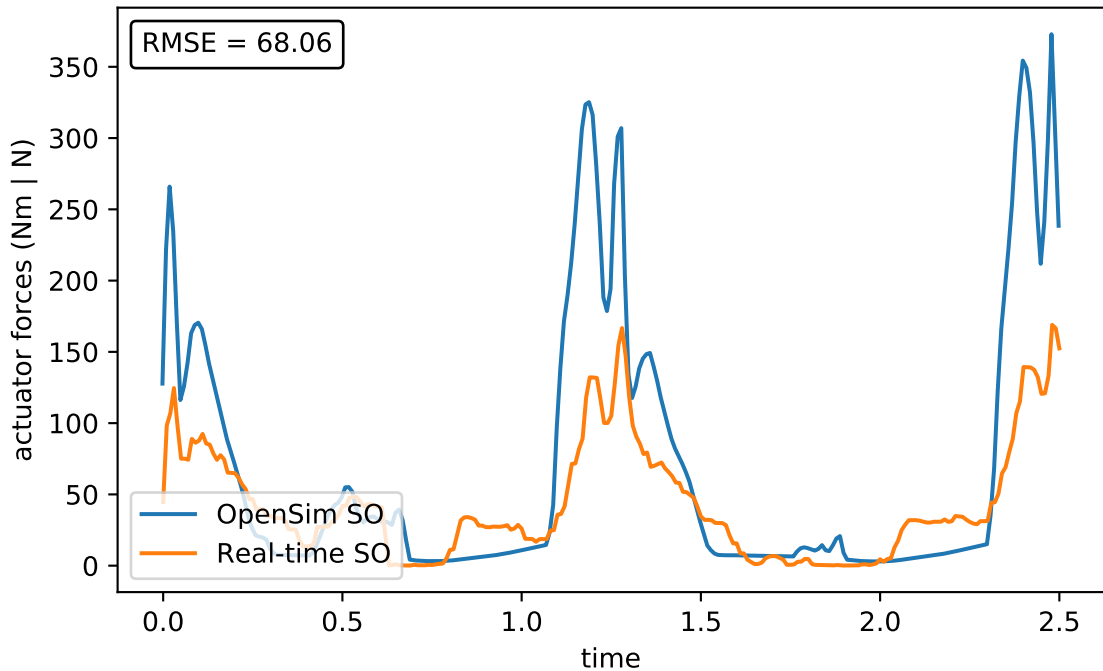
glut_min2_l



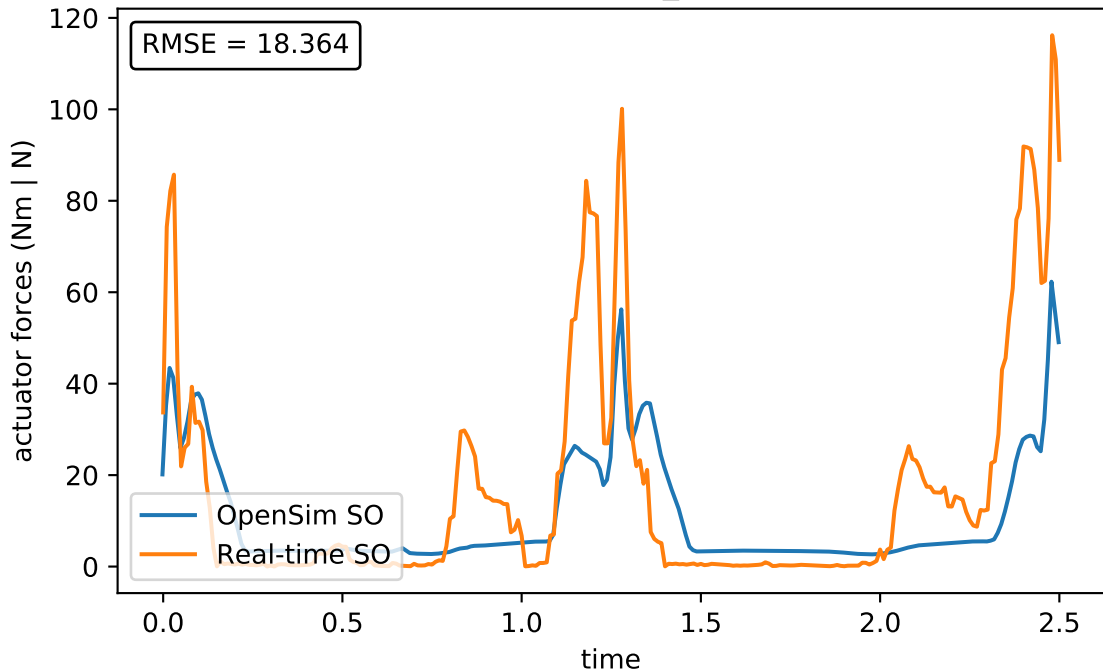
glut_min3_l



semimem_l



semiten_l



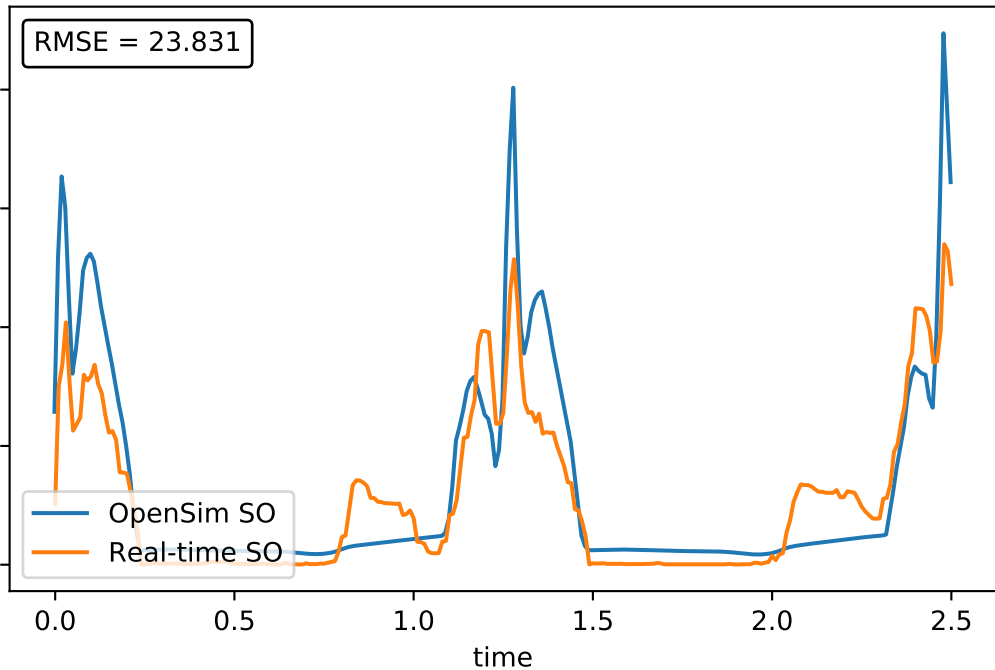
bifemlh_l

RMSE = 23.831

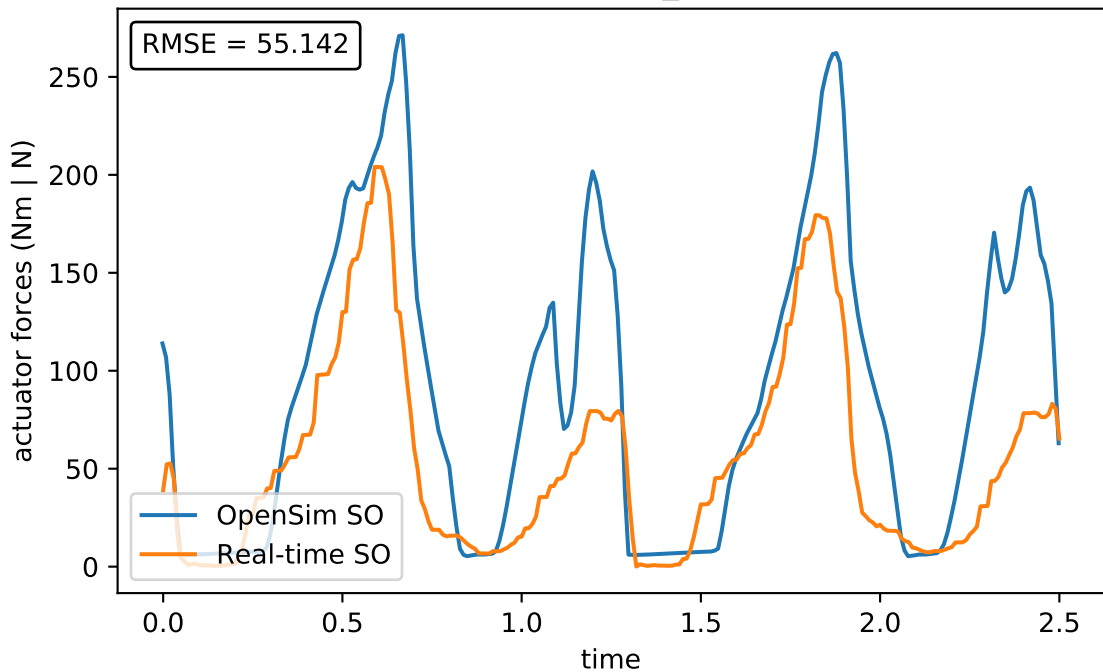
actuator forces (Nm | N)

OpenSim SO
Real-time SO

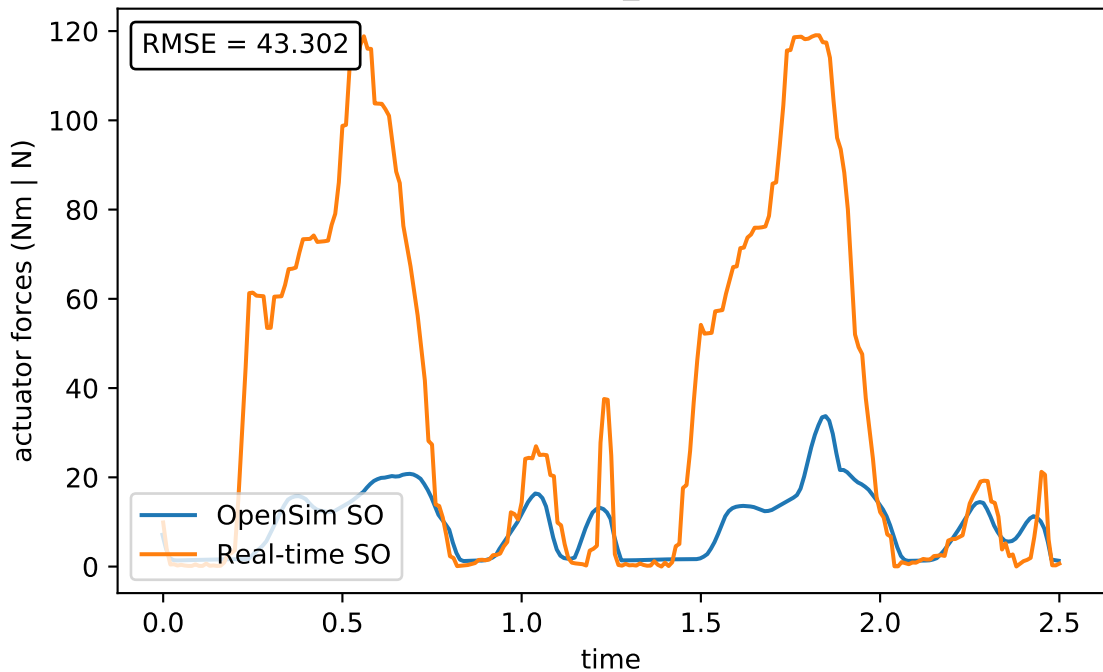
time



bifemsh_l



sar_l



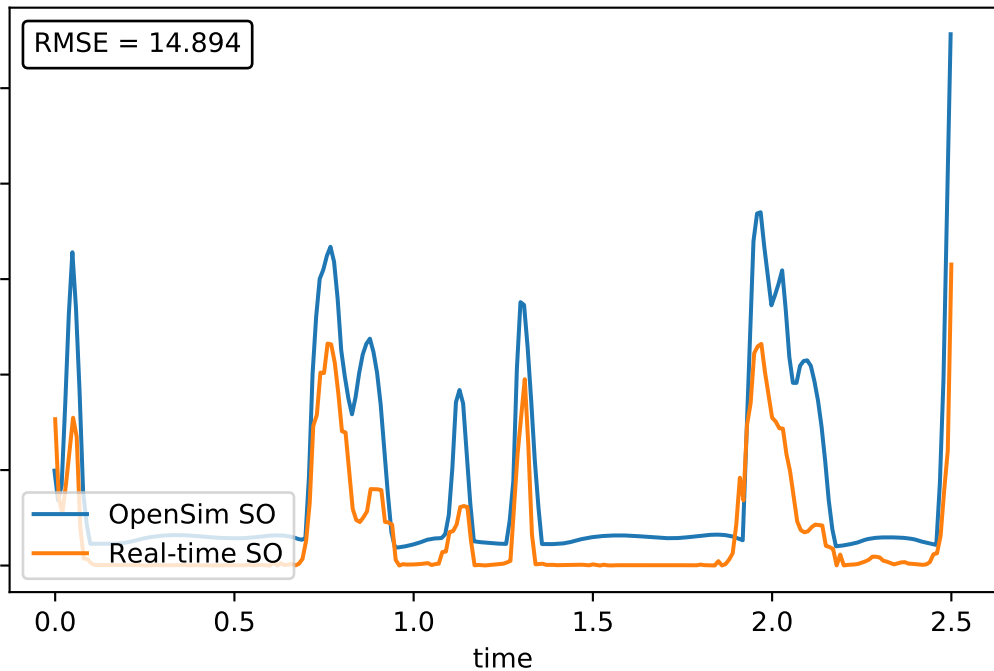
add_long_l

RMSE = 14.894

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



add_brev_l

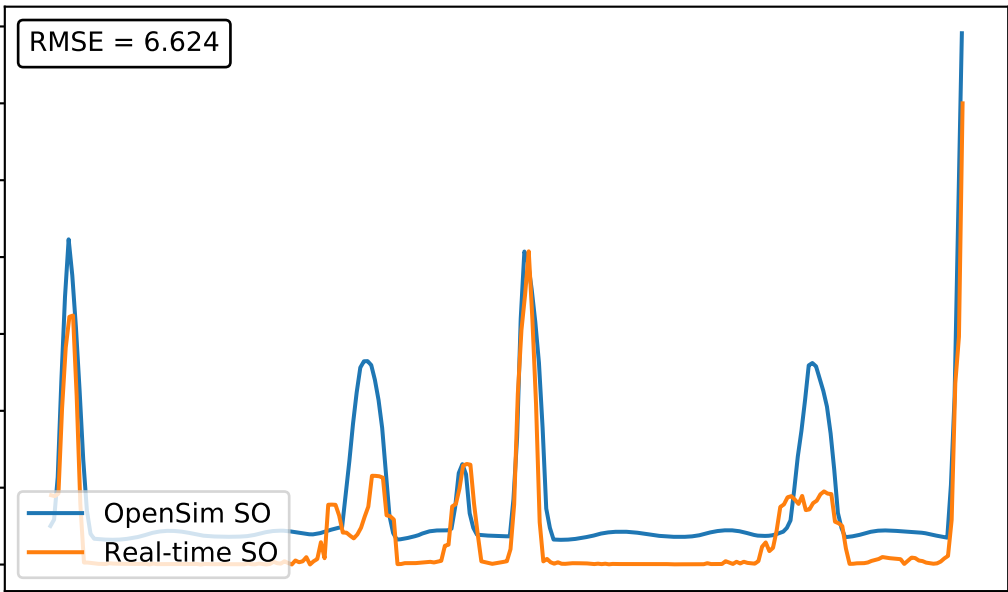
RMSE = 6.624

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



add_mag1_l

RMSE = 4.33

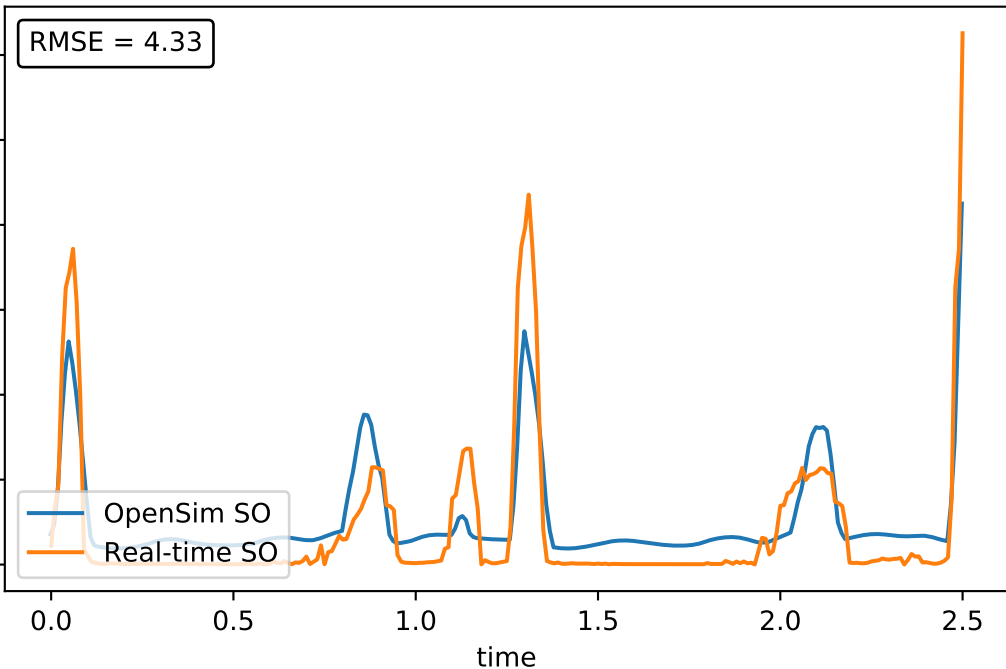
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

60
50
40
30
20
10
0



add_mag2_l

RMSE = 5.761

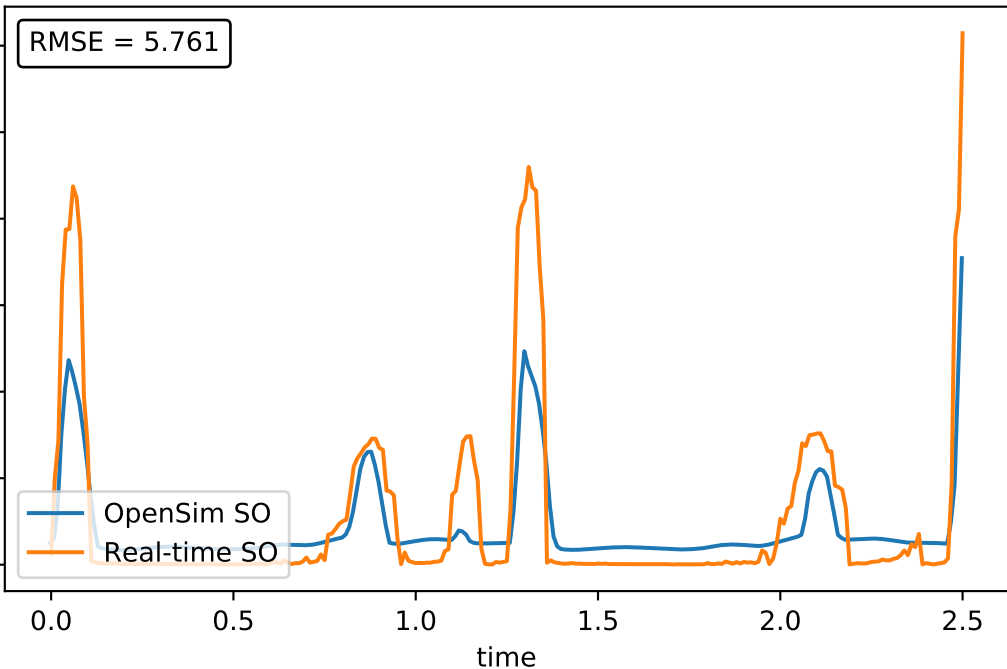
actuator forces (Nm | N)

OpenSim SO
Real-time SO

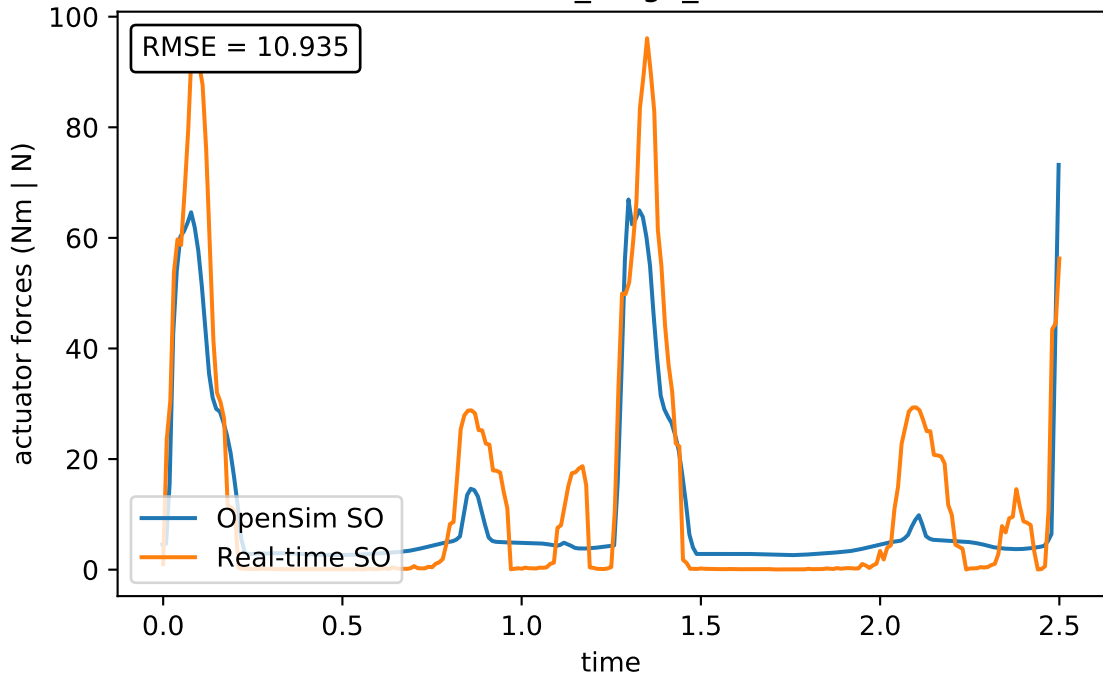
time

0.0 0.5 1.0 1.5 2.0 2.5

60
50
40
30
20
10
0



add_mag3_l



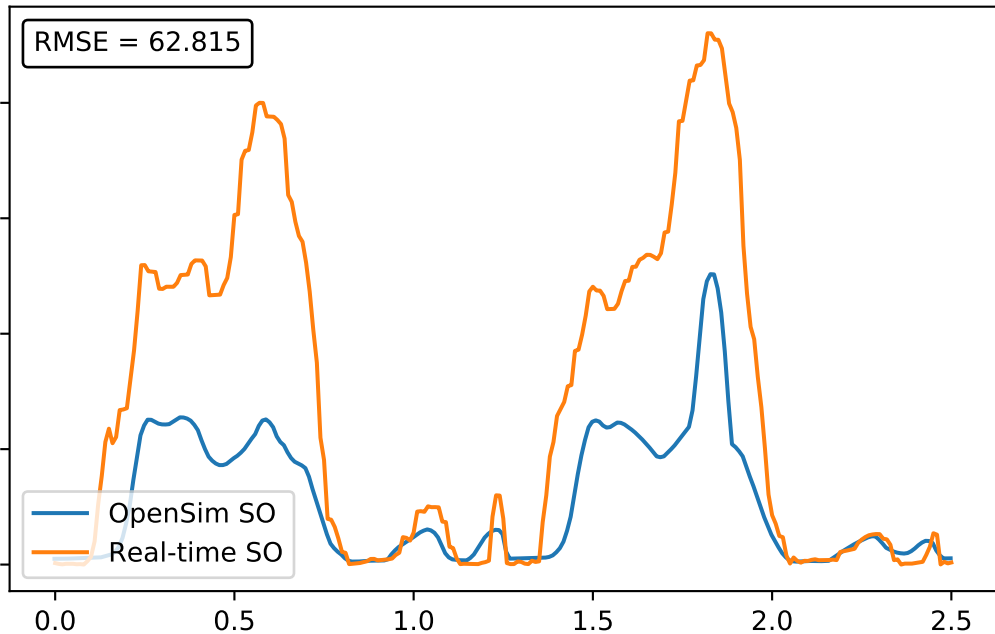
tfl_l

RMSE = 62.815

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



pect_l

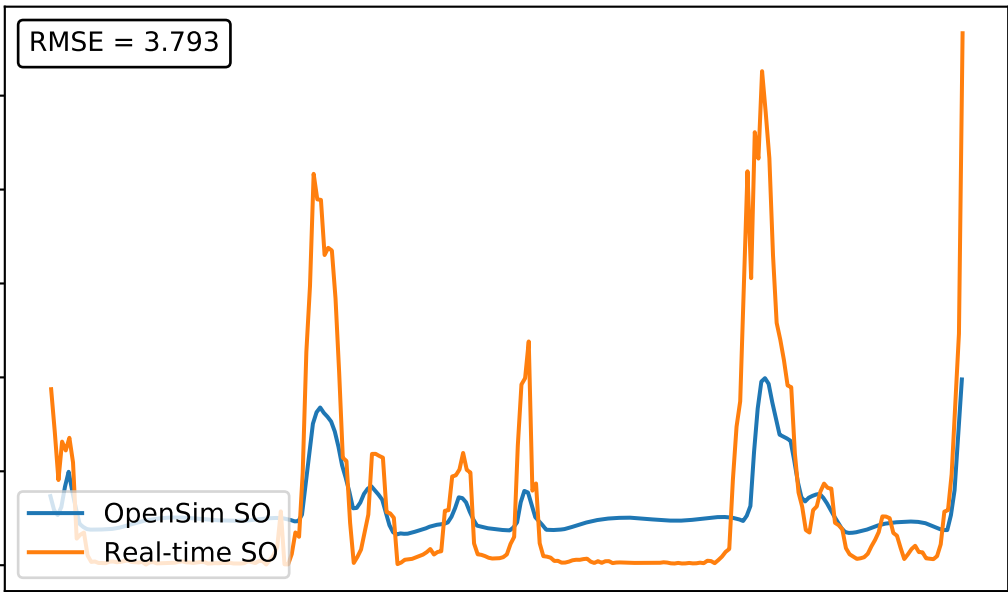
RMSE = 3.793

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



grac_l

RMSE = 5.651

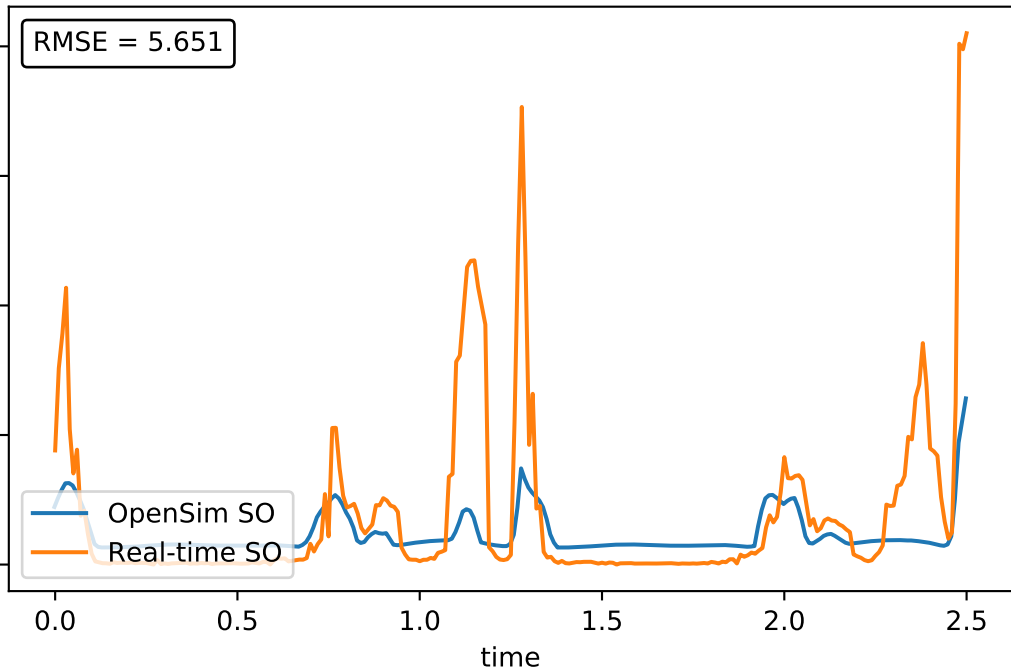
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

40
30
20
10
0



glut_max1_l

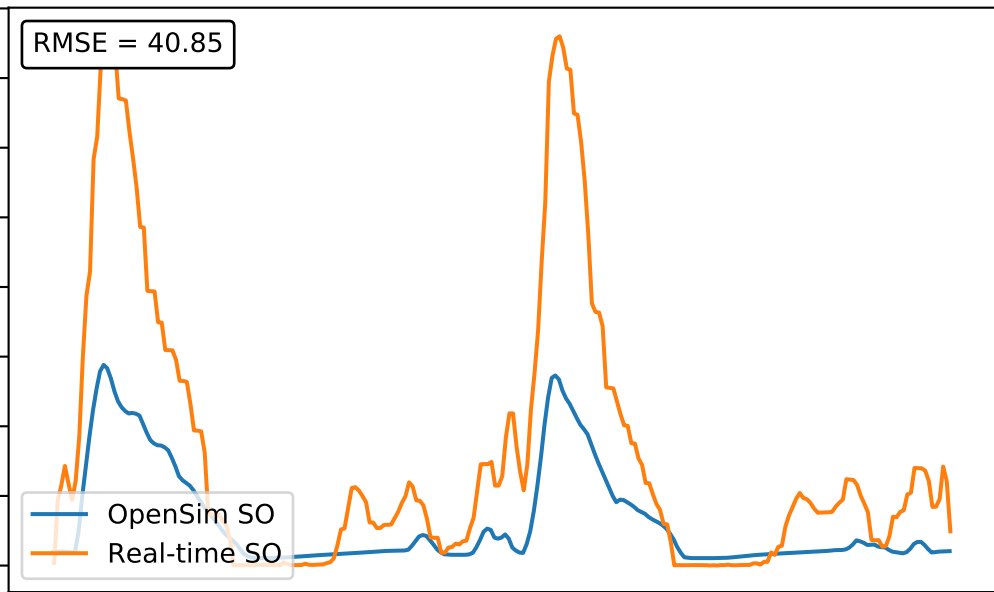
RMSE = 40.85

actuator forces (Nm | N)

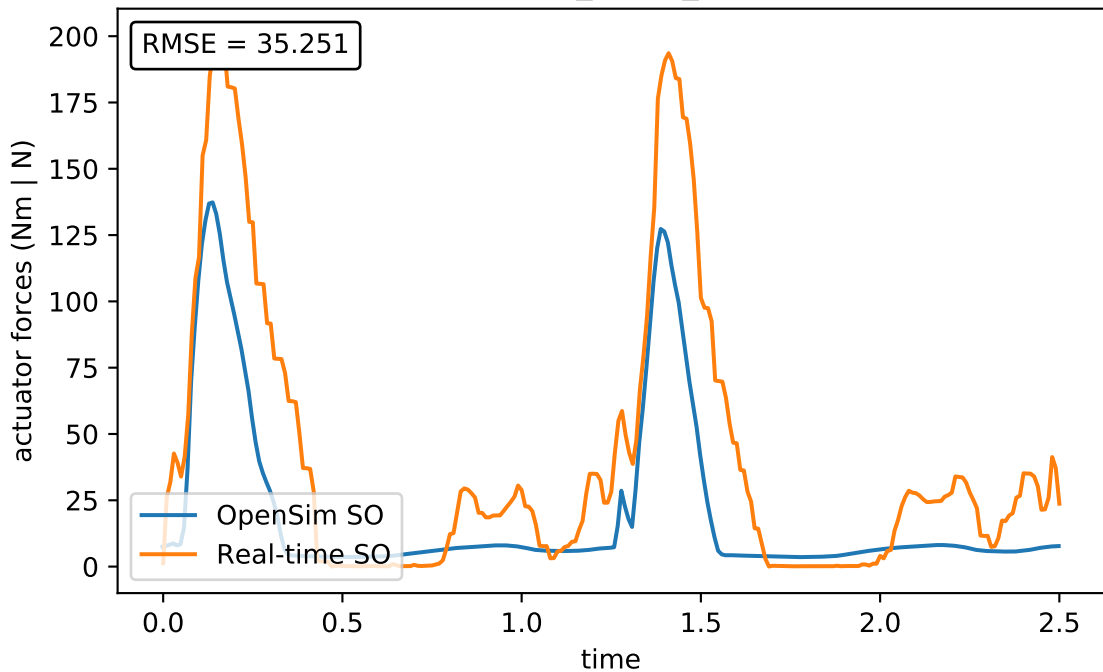
OpenSim SO
Real-time SO

time

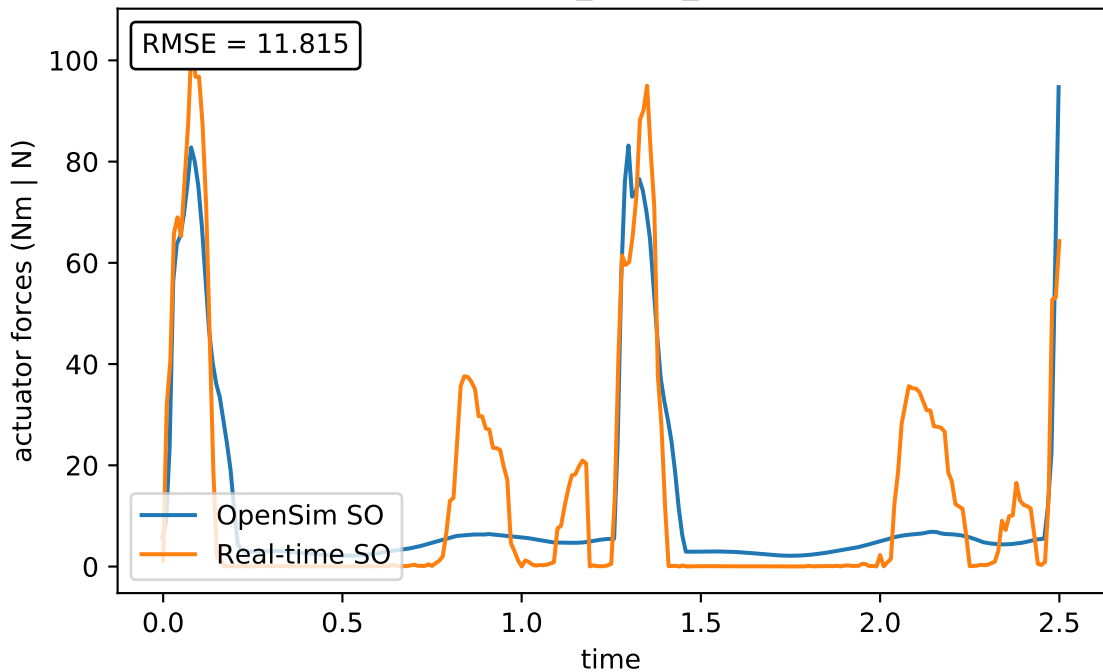
0.0 0.5 1.0 1.5 2.0 2.5



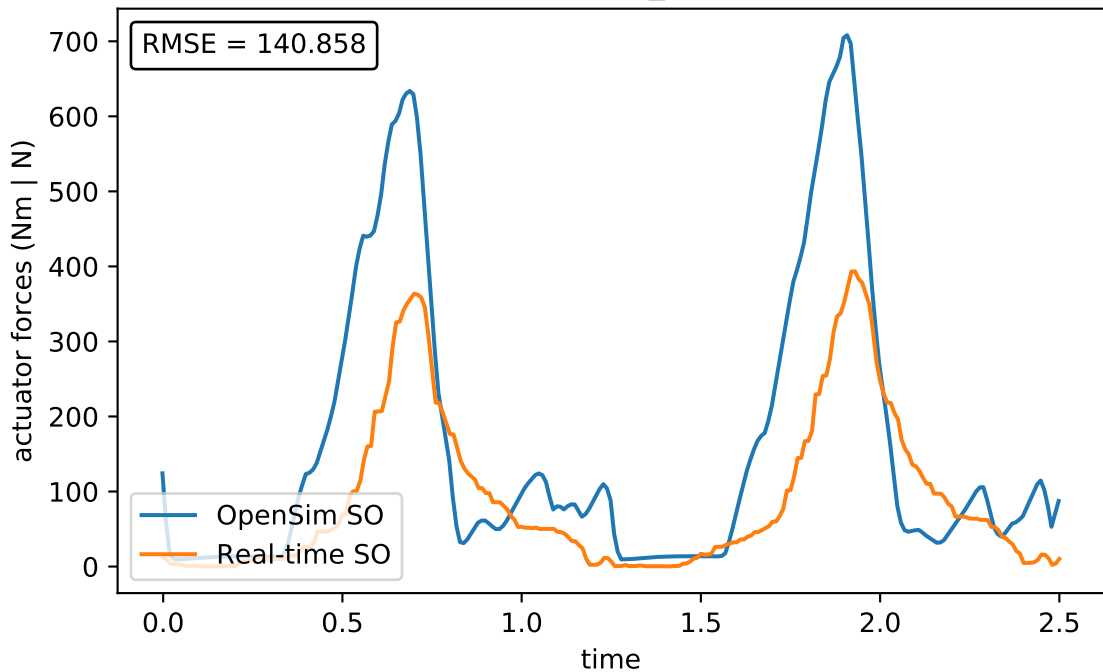
glut_max2_l



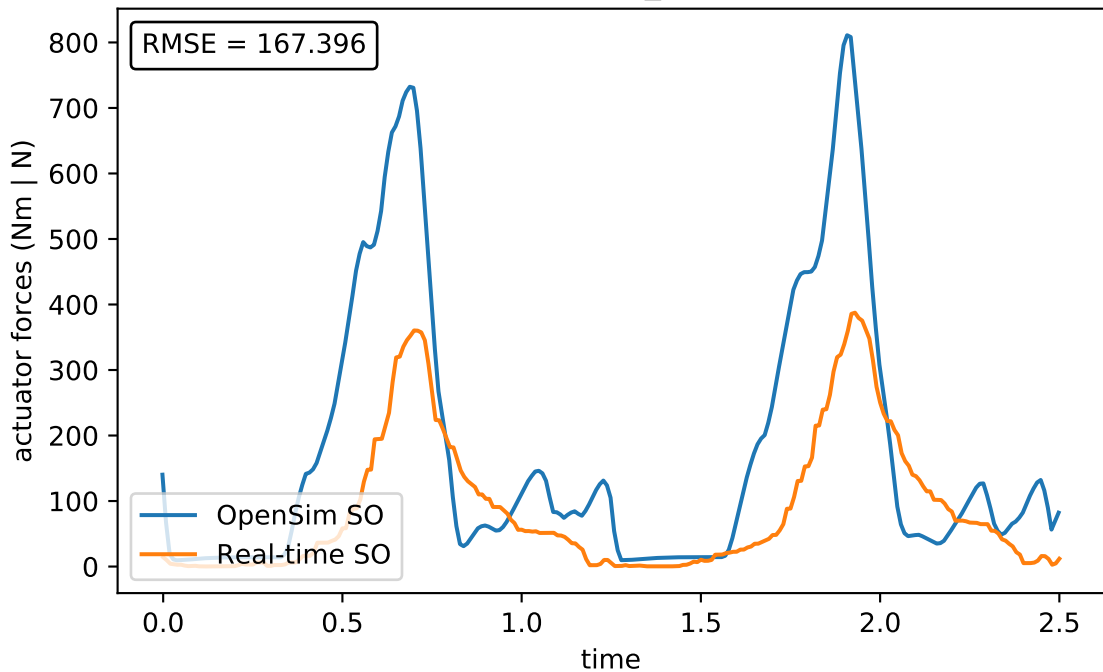
glut_max3_l



iliacus_l



psoas_l



quad_fem_l

RMSE = 4.267

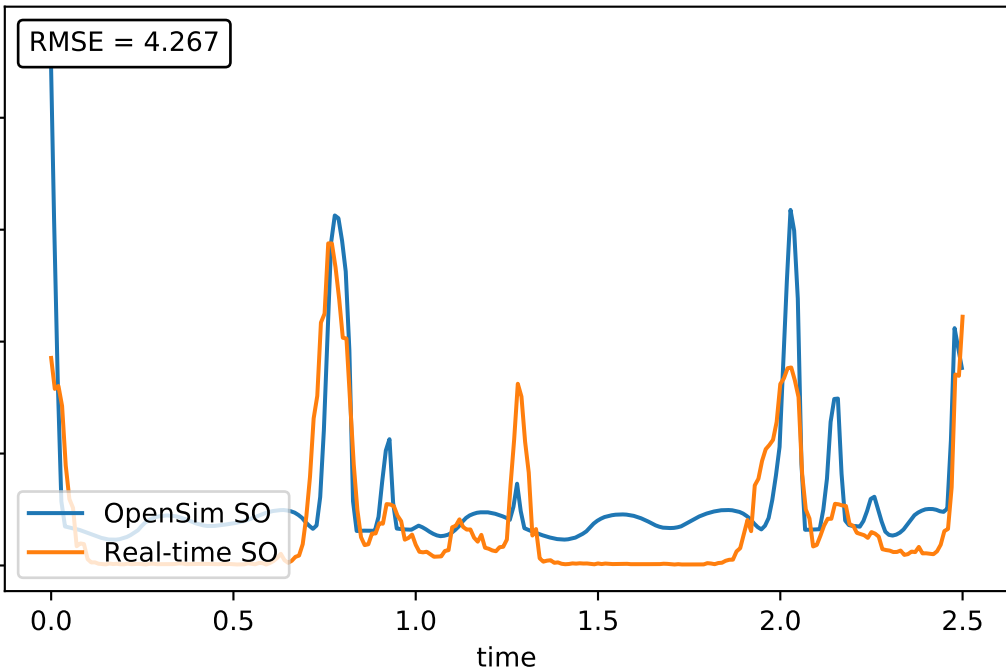
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

40
30
20
10
0



gem_l

RMSE = 2.66

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

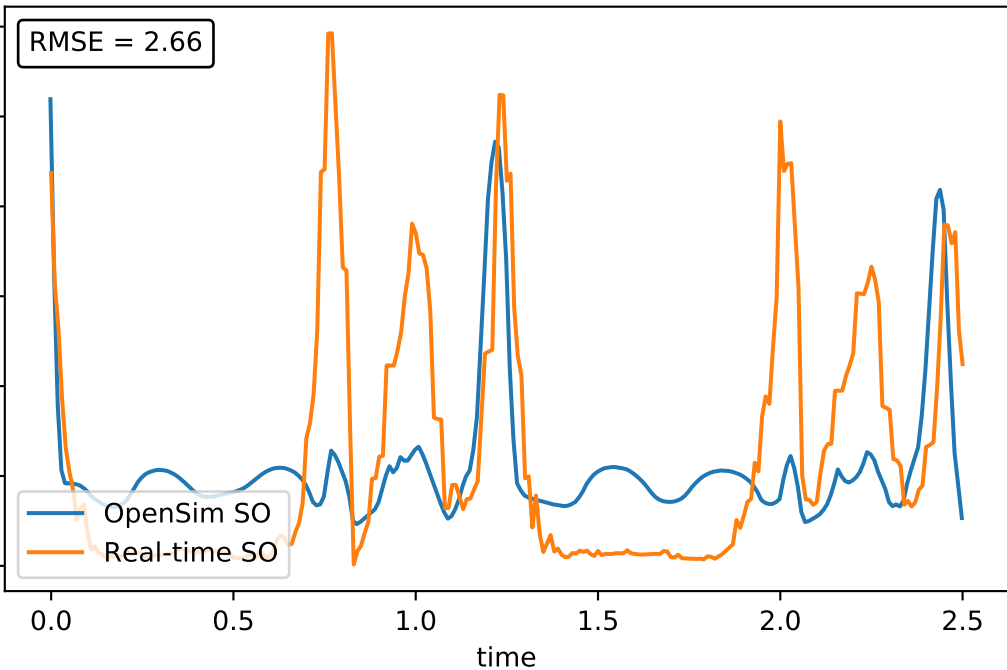
0.5

1.0

1.5

2.0

2.5



peri_l

RMSE = 15.353

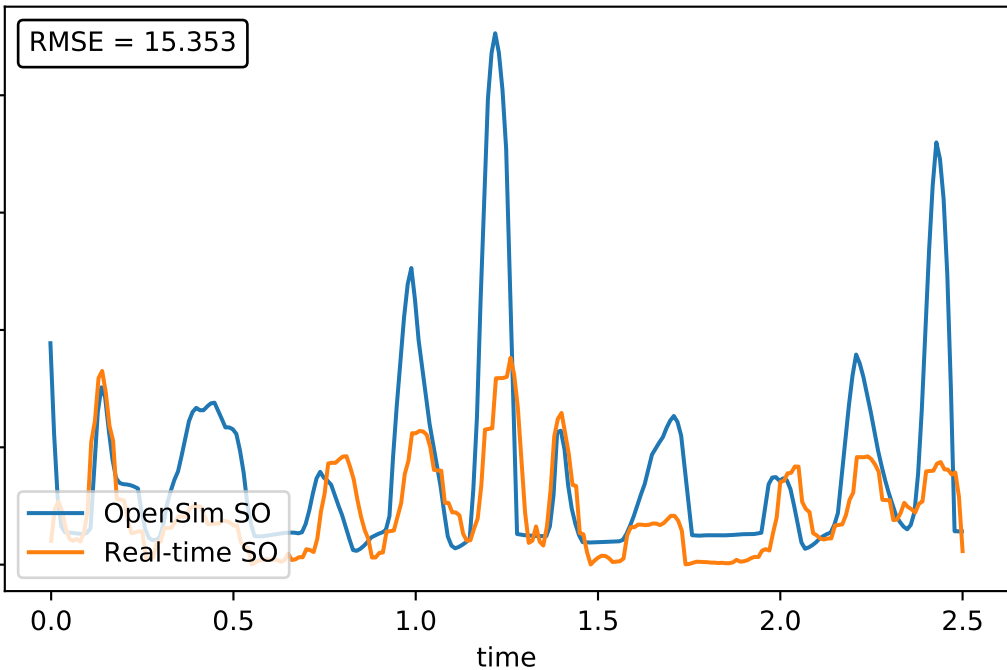
actuator forces (Nm | N)

OpenSim SO
Real-time SO

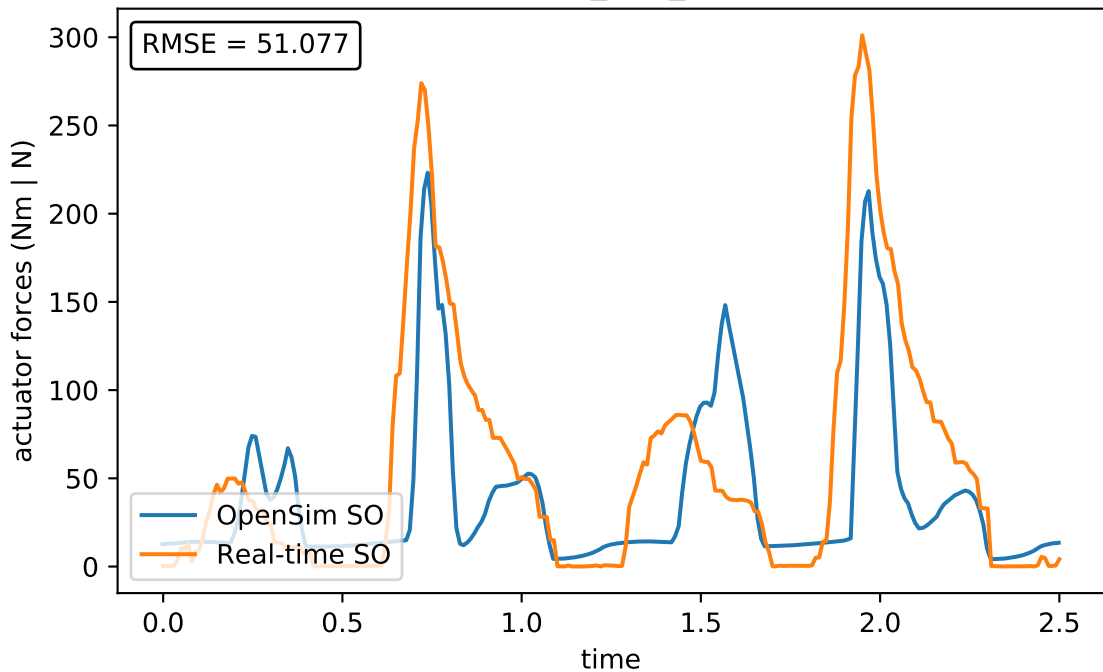
time

0.0 0.5 1.0 1.5 2.0 2.5

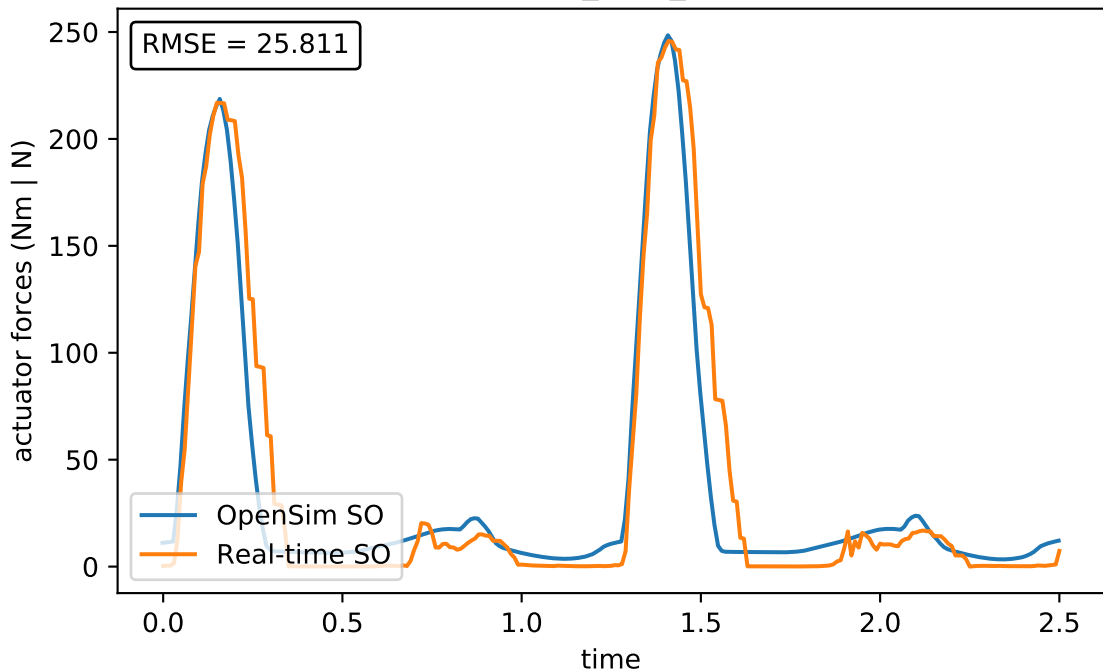
80
60
40
20
0



rect_fem_l



vas_med_l



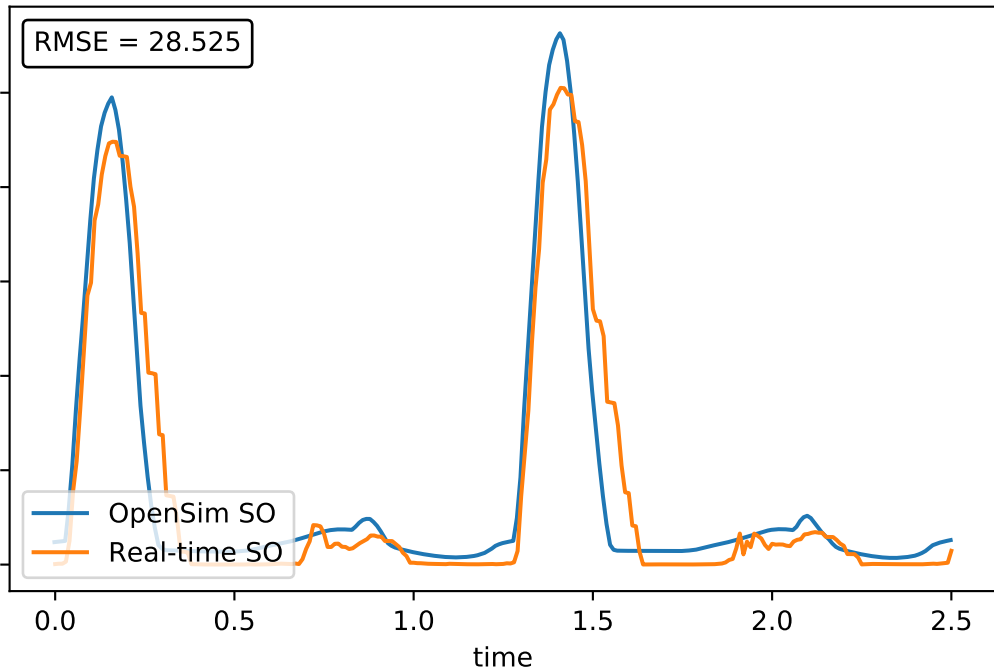
vas_int_l

RMSE = 28.525

actuator forces (Nm | N)

— OpenSim SO
— Real-time SO

time



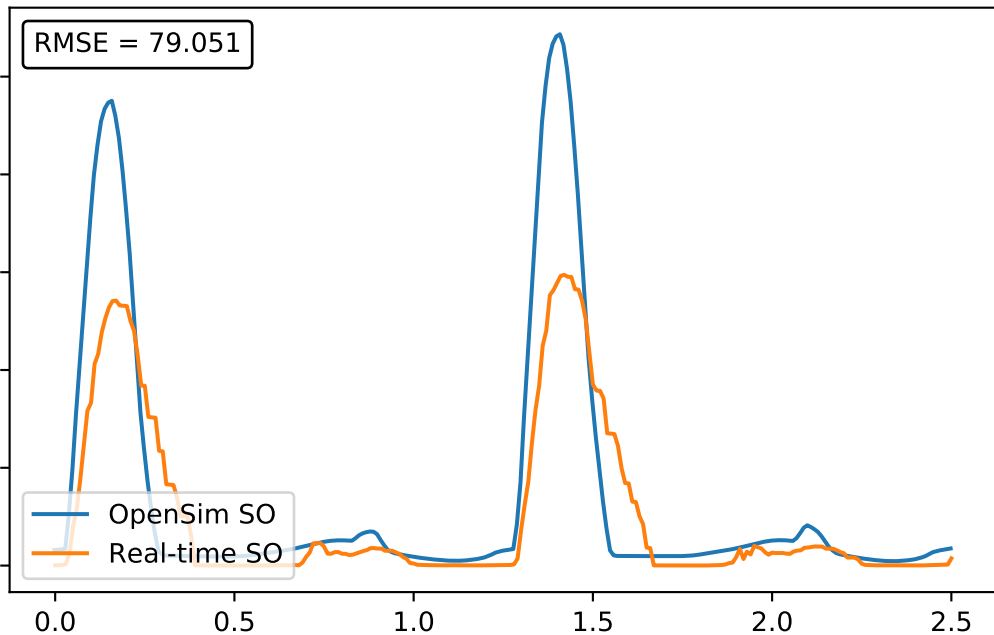
vas_lat_l

RMSE = 79.051

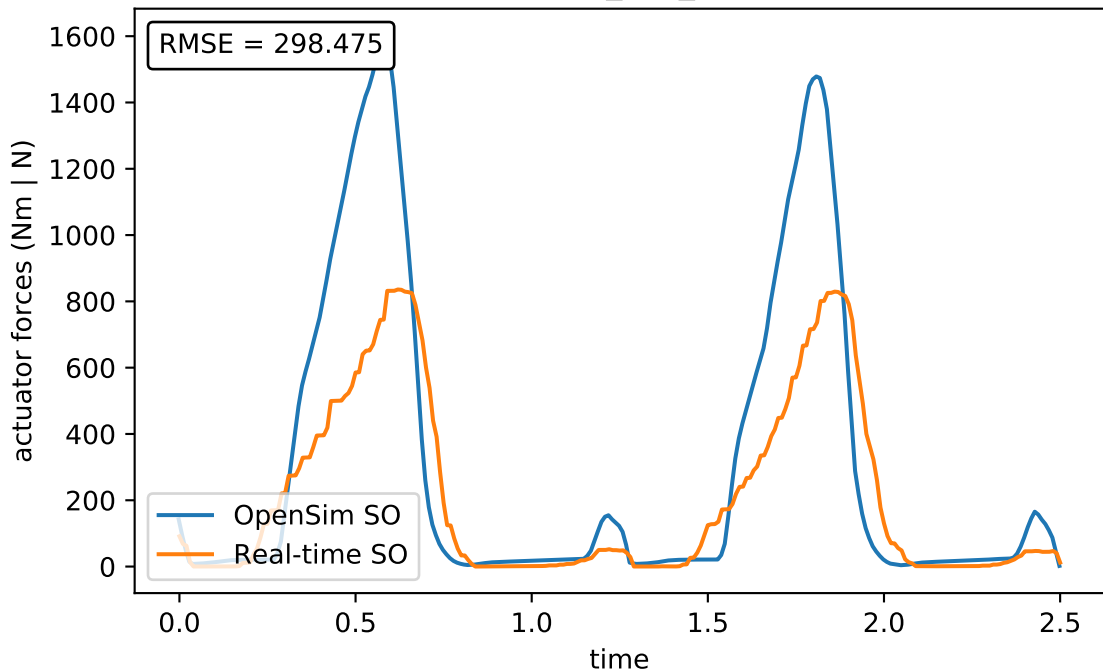
actuator forces (Nm | N)

— OpenSim SO
— Real-time SO

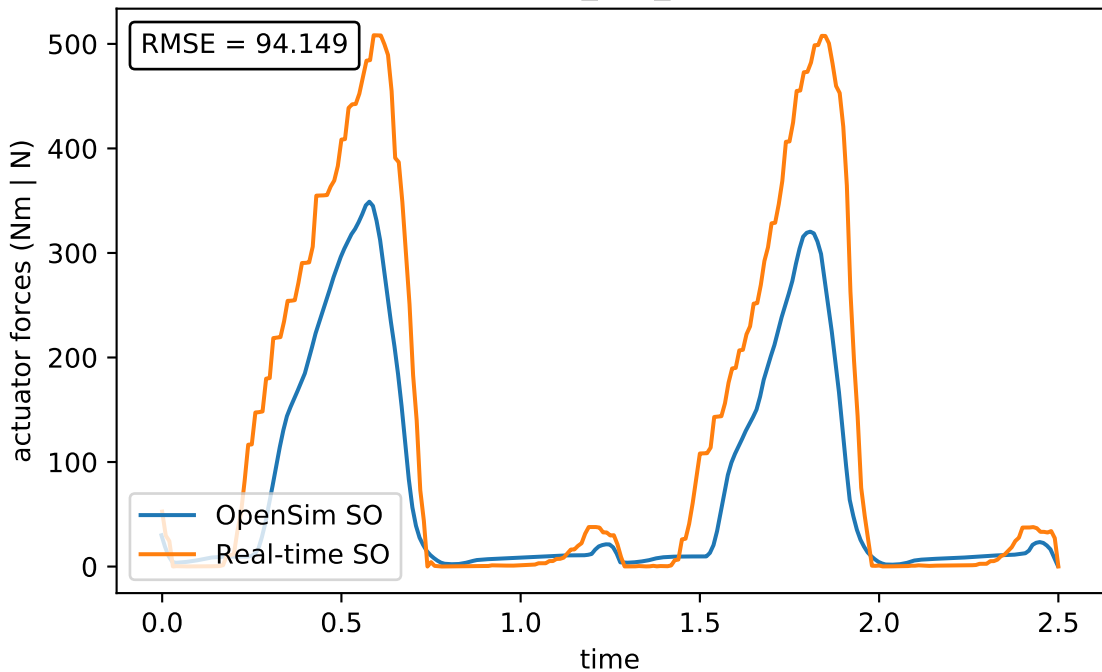
time



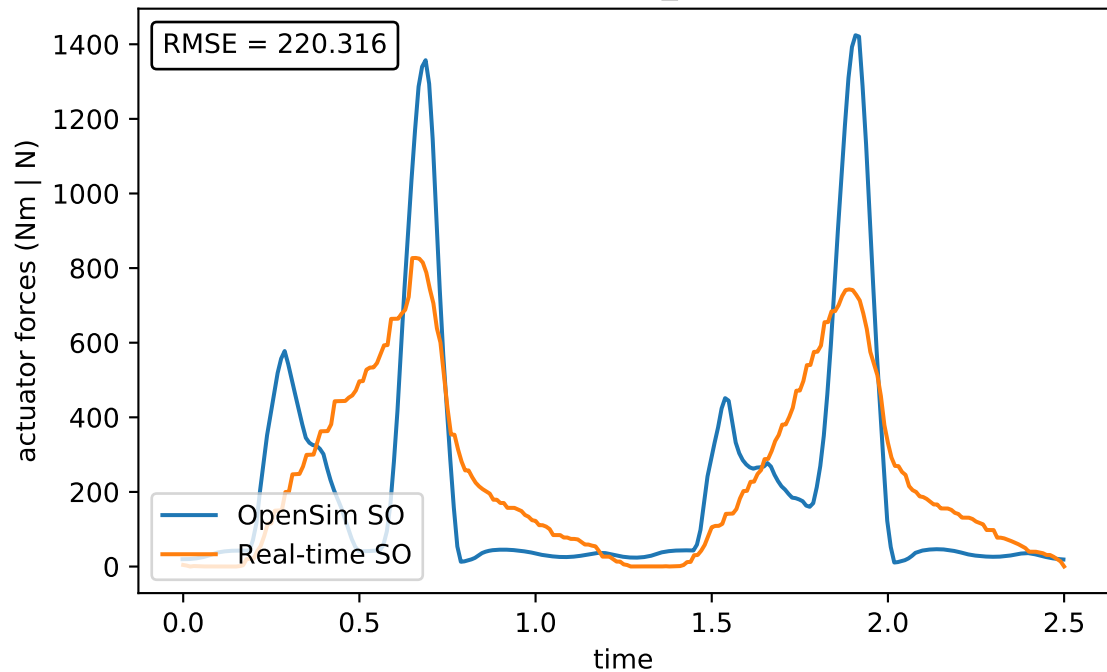
med_gas_l



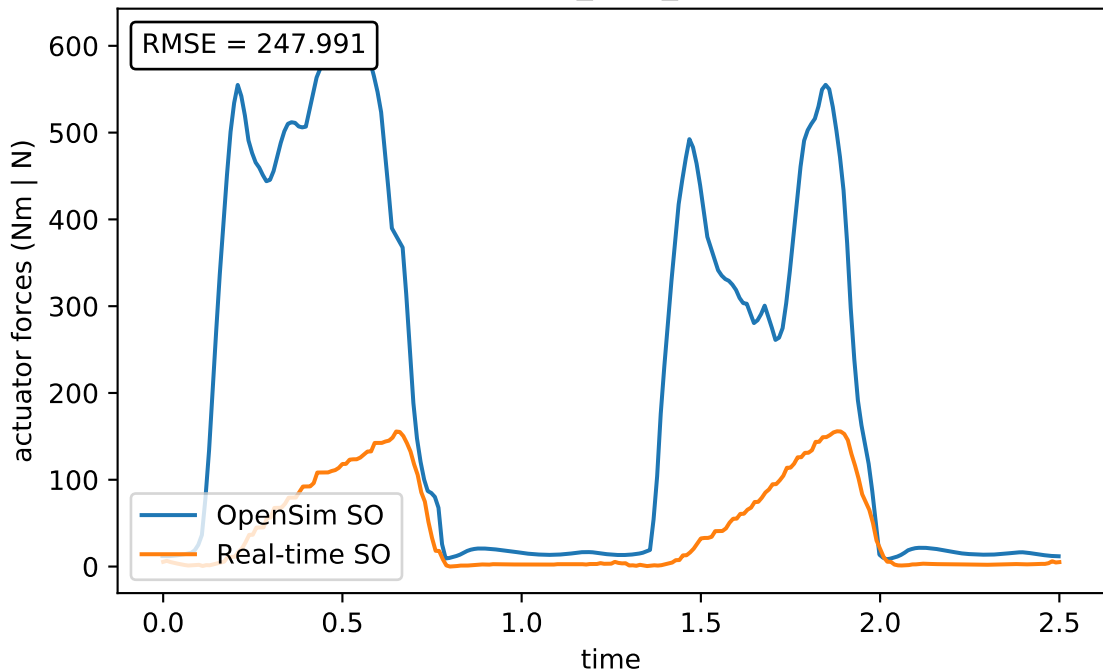
lat_gas_l



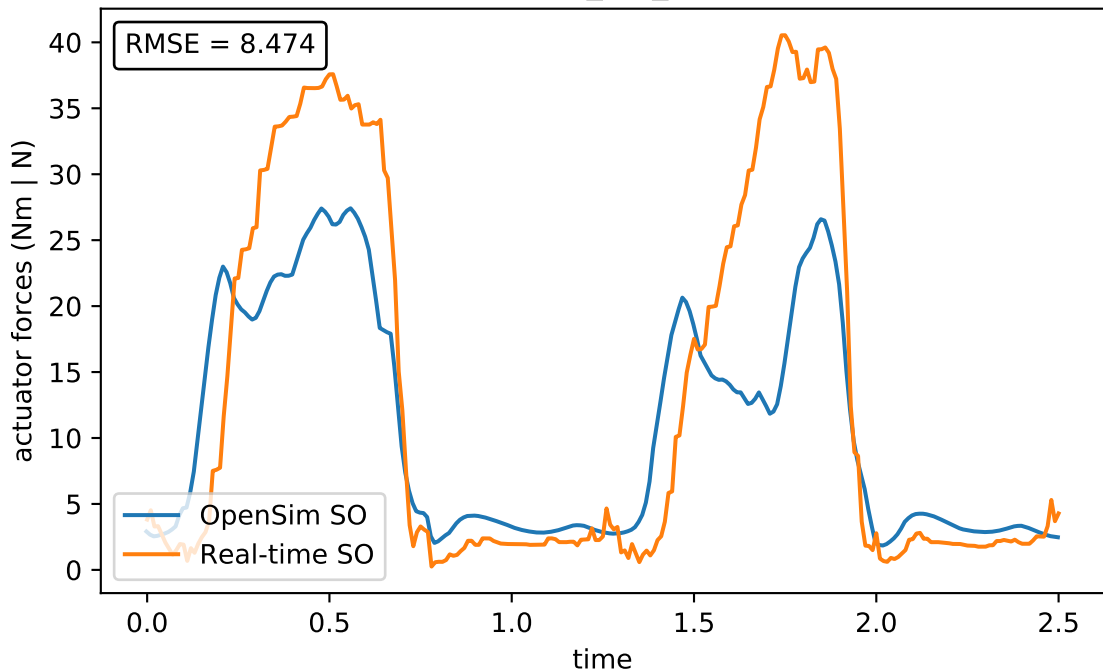
soleus_l



tib_post_l



flex_dig_l



flex_hal_l

RMSE = 16.53

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

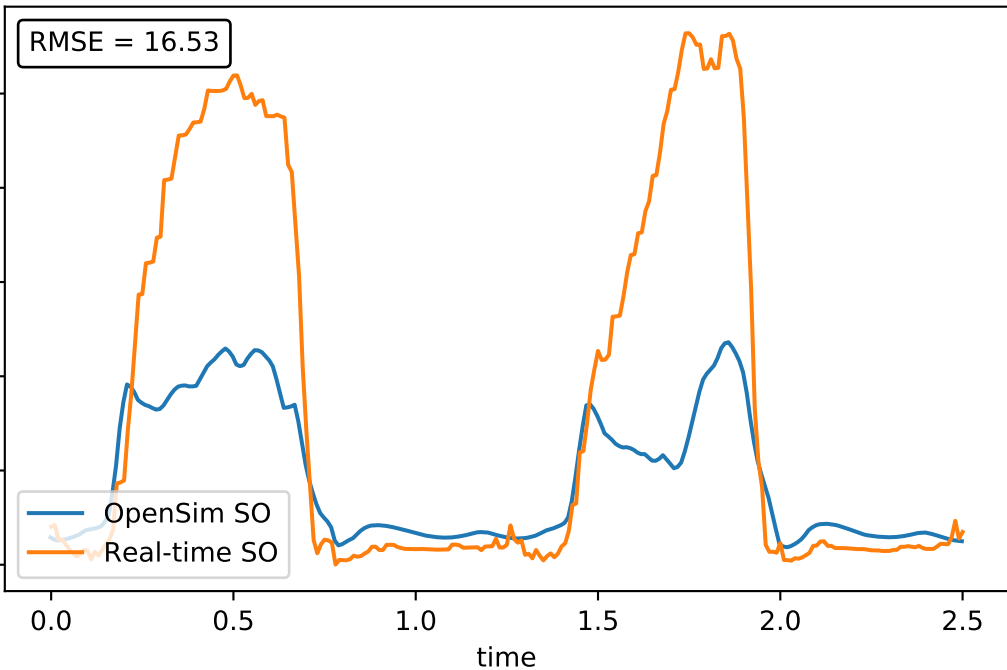
0.5

1.0

1.5

2.0

2.5



tib_ant_l

RMSE = 106.464

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

500

400

300

200

100

0

per_brev_l

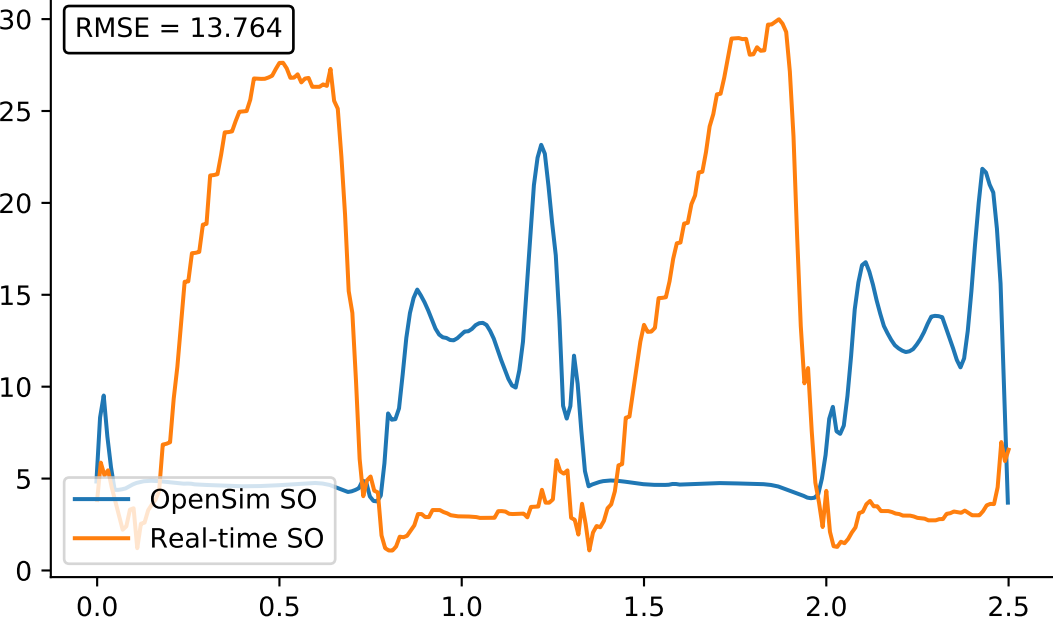
RMSE = 13.764

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5



per_long_l

RMSE = 40.868

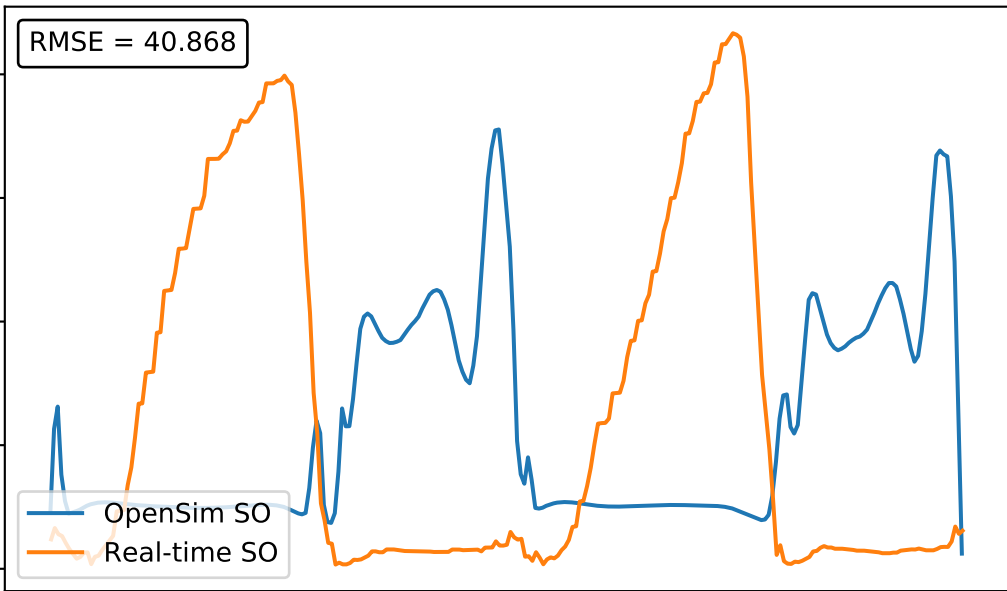
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

80
60
40
20
0



per_tert_l

RMSE = 8.268

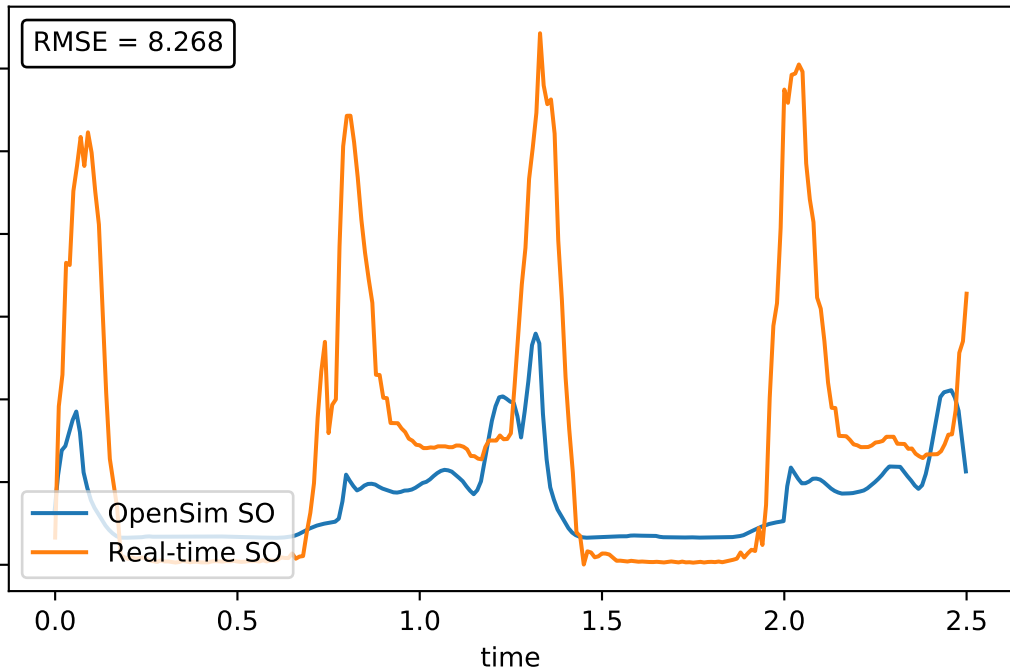
actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0 0.5 1.0 1.5 2.0 2.5

30
25
20
15
10
5
0



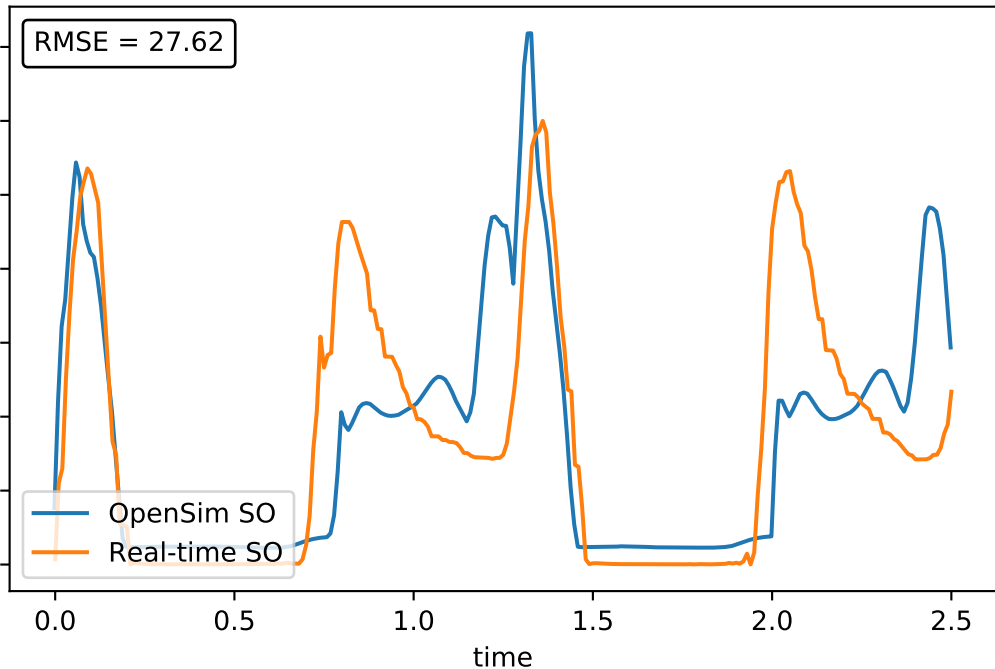
ext_dig_l

RMSE = 27.62

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



ext_hal_l

RMSE = 13.237

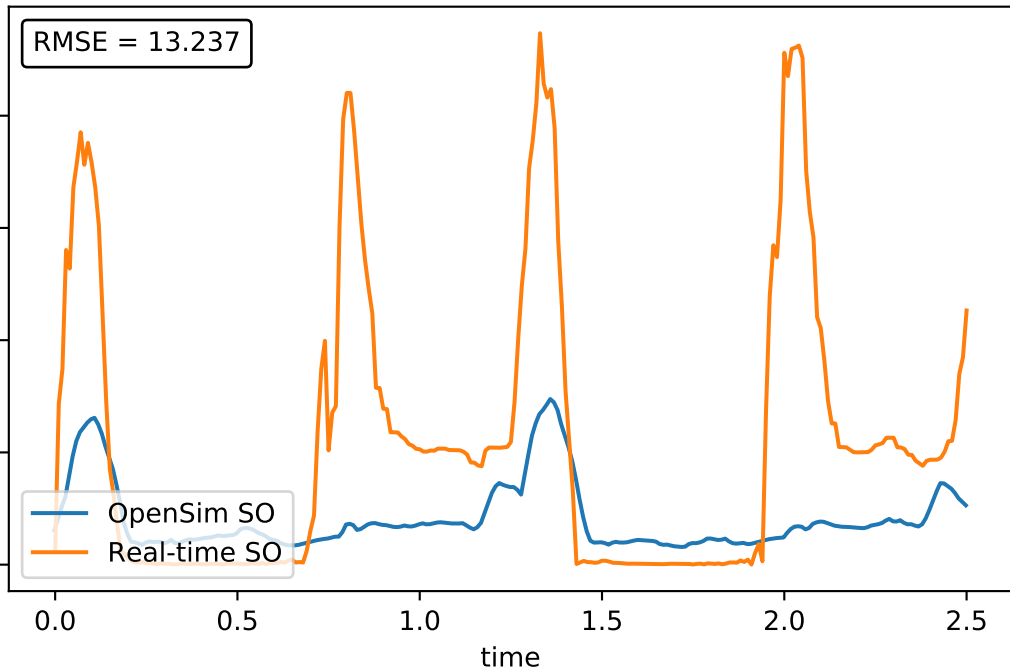
actuator forces (Nm | N)

OpenSim SO
Real-time SO

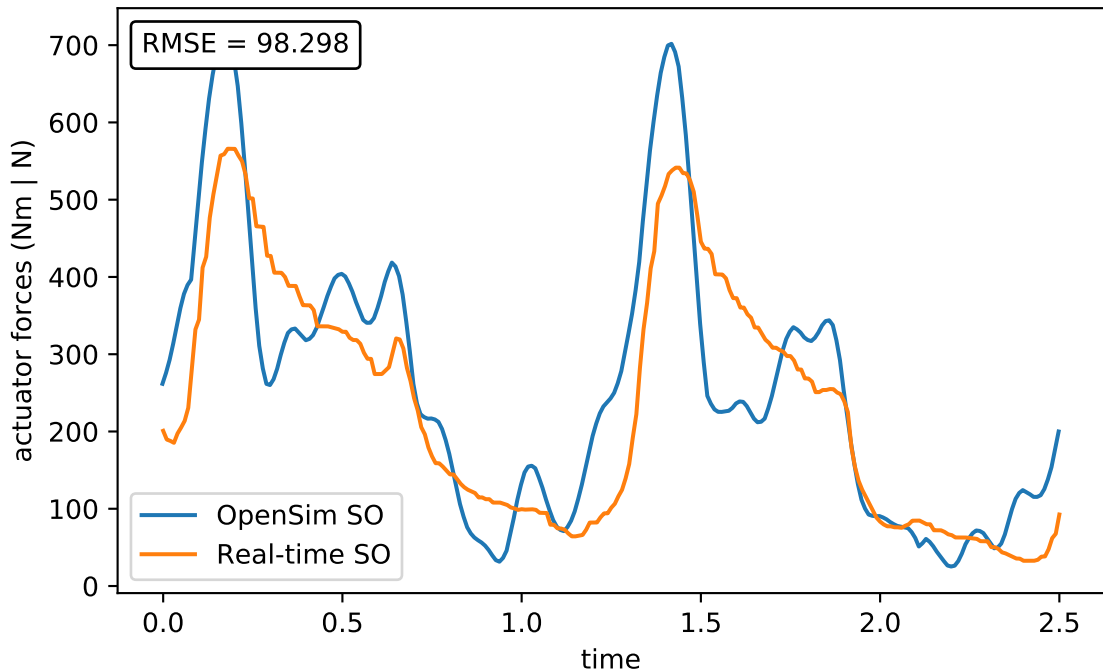
time

0.0 0.5 1.0 1.5 2.0 2.5

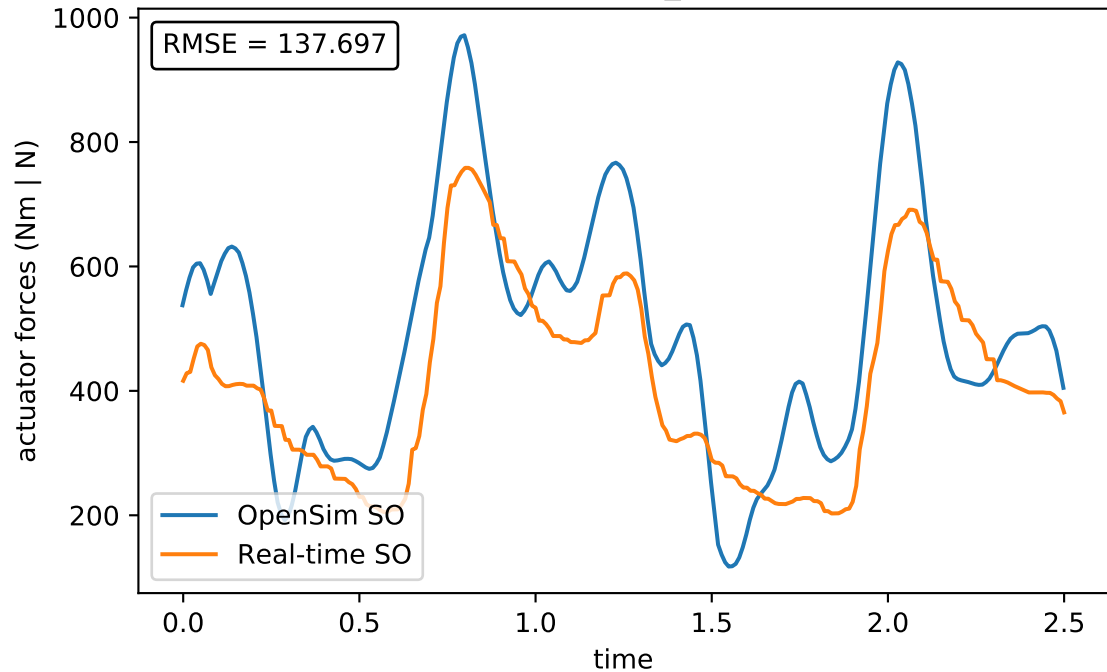
0 10 20 30 40



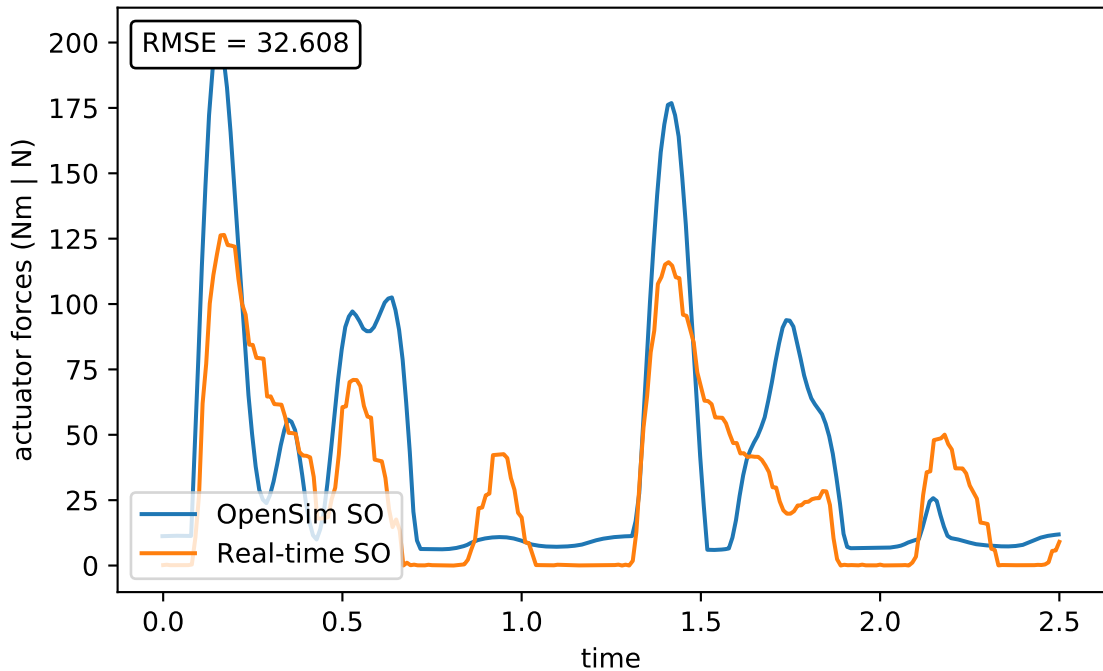
ercspn_r



ercspn_l



intobl_r



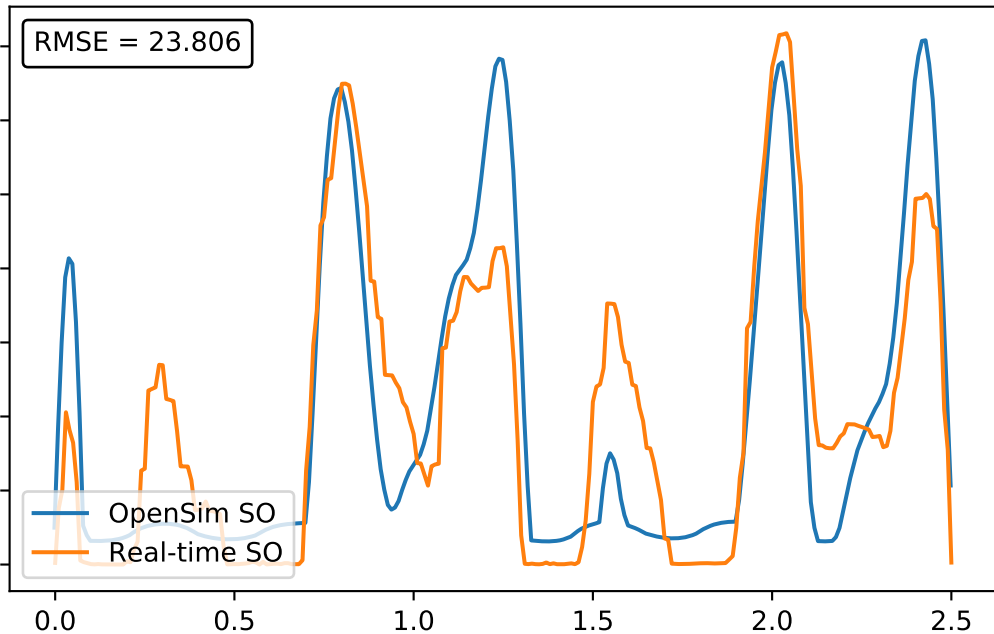
intobl_l

RMSE = 23.806

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



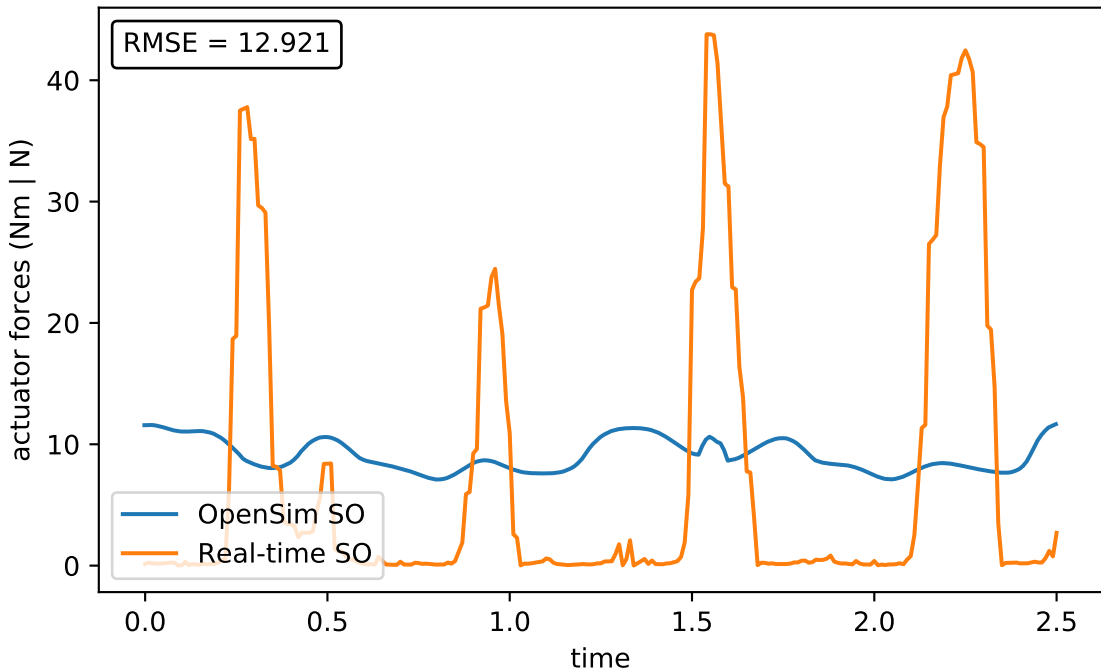
extobl_r

RMSE = 12.921

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time



extobl_l

RMSE = 17.902

actuator forces (Nm | N)

OpenSim SO
Real-time SO

time

0.0

0.5

1.0

1.5

2.0

2.5

60

50

40

30

20

10

0