Firefly, from RotorS, to track a desired trajectory. This mission depends on:

- controller: a trajectory tracking controller
- reference: a reference position trajectory to be tracked
- yaw_controller: a yaw controller
- yaw reference: a yaw reference
- controller=SimplePIDController:

PID Controller, with saturation on integral part

force(
$$\Delta t$$
, p,pd) = 1.669*(pd⁽²⁾ + u(p⁽⁰⁾ - pd⁽⁰⁾,p⁽¹⁾ - pd⁽¹⁾) + g e₃ - d^{est}), where

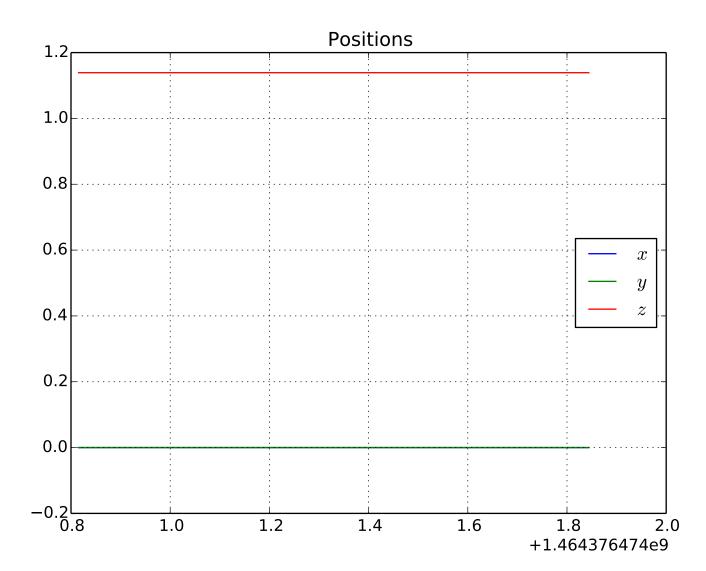
- $u_{xy}(p,v) = -1.0*p-1.0*v$
- $u_z(p,v) = -1.0*p-1.0*v$
- $o d_{xy}^{est(1)} = 0.0*(kp/2*ep + ev)$
- $|d_{xy}^{est(0)}| \le 0.0$
- \circ $d_z^{\text{est}(1)} = 0.5*(\text{kp/2*ep} + \text{ev})$
- $|d_z^{est(0)}| \le 0.0$
- yaw_controller=SimpleTrackingYawController: SimpleTrackingYawController has no method object_description()
- reference=FixedPointTrajectory: FixedPointTrajectory has no method object description()
- yaw_reference=FixedYawTrajectory: FixedYawTrajectory has no method object_description()

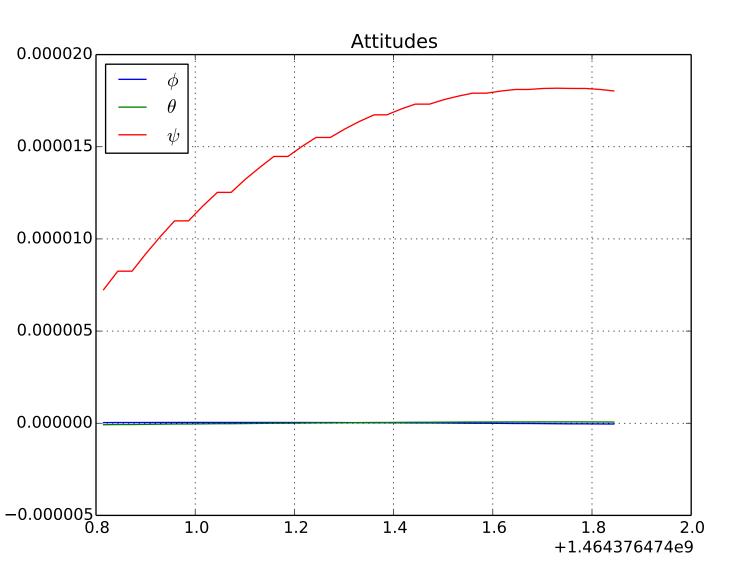
Firefly, from RotorS, to track a desired trajectory. This mission depends on:

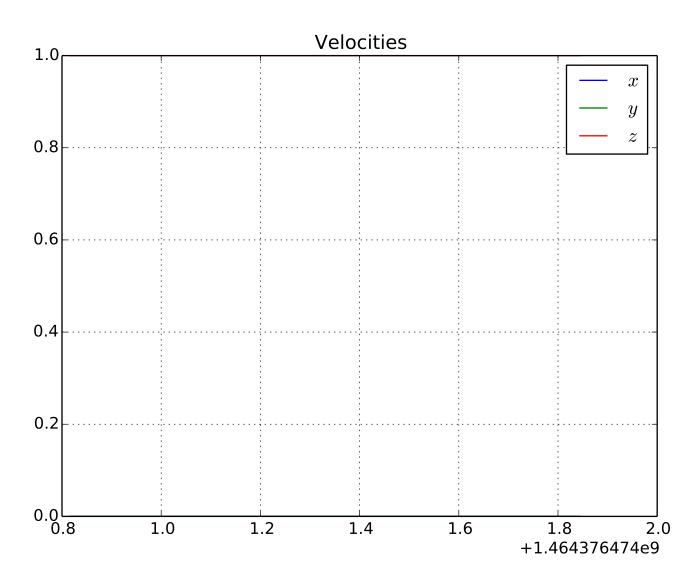
controller: a trajectory tracking controller
reference: a reference position trajectory to be tracked
yaw controller: a yaw controller

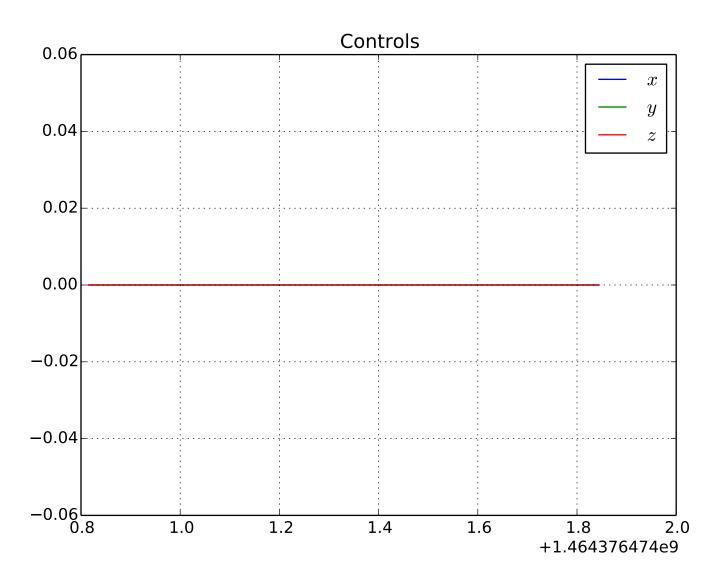
/2*ep + ev)|d_{xy}^{est(0)}| ≤ 0.0d<sub>z</s

yaw_reference: a yaw reference









Firefly, from RotorS, to track a desired trajectory. This mission depends on:

- controller: a trajectory tracking controller
- reference: a reference position trajectory to be tracked
- yaw_controller: a yaw controller
- yaw reference: a yaw reference
- controller=SimplePIDController:

PID Controller, with saturation on integral part

force(
$$\Delta t$$
, p,pd) = 1.669*(pd⁽²⁾ + u(p⁽⁰⁾ - pd⁽⁰⁾,p⁽¹⁾ - pd⁽¹⁾) + g e₃ - d^{est}), where

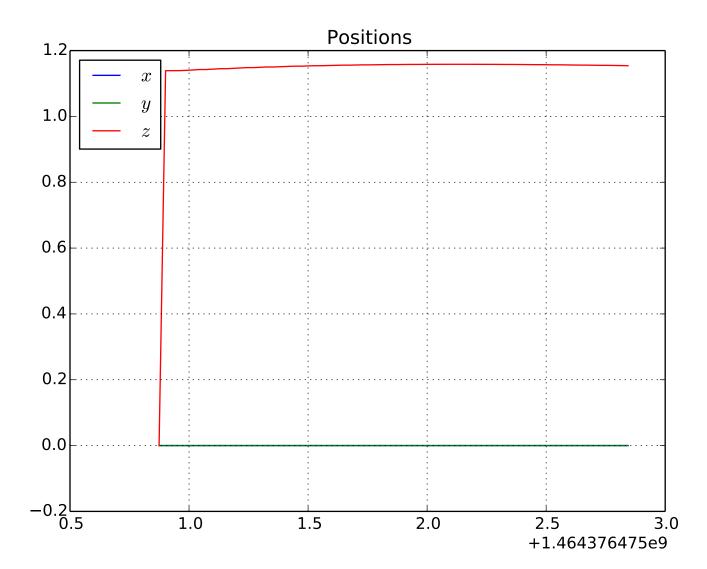
- $u_{xy}(p,v) = -1.0*p-1.0*v$
- $u_z(p,v) = -1.0*p-1.0*v$
- $o d_{xy}^{est(1)} = 0.0*(kp/2*ep + ev)$
- $|d_{xy}^{est(0)}| \le 0.0$
- \circ $d_z^{\text{est}(1)} = 0.5*(\text{kp/2*ep} + \text{ev})$
- $|d_z^{est(0)}| \le 0.0$
- yaw_controller=SimpleTrackingYawController: SimpleTrackingYawController has no method object_description()
- reference=FixedPointTrajectory: FixedPointTrajectory has no method object description()
- yaw_reference=FixedYawTrajectory: FixedYawTrajectory has no method object_description()

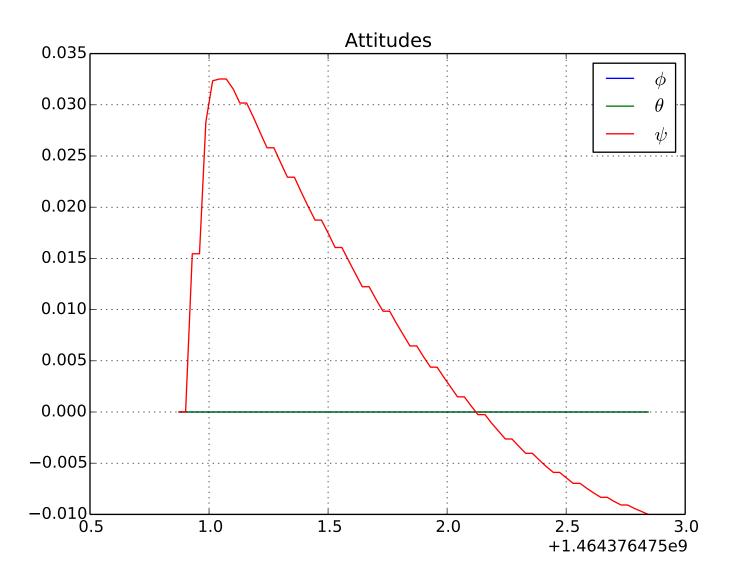
Firefly, from RotorS, to track a desired trajectory. This mission depends on:

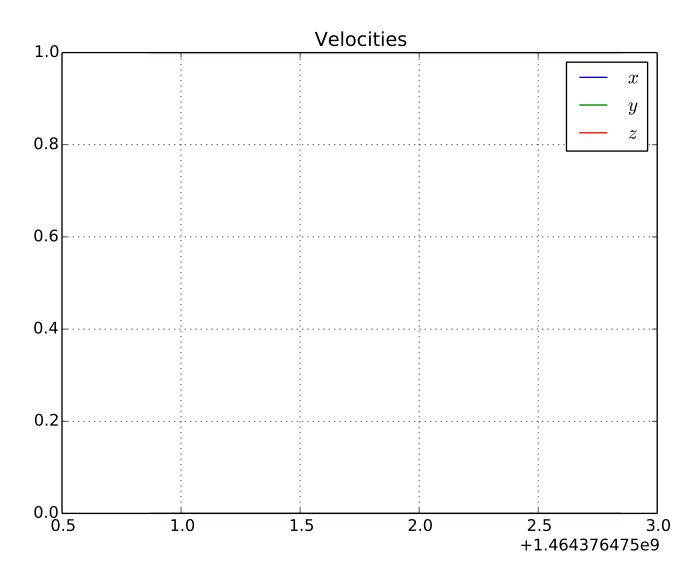
controller: a trajectory tracking controller
reference: a reference position trajectory to be tracked
yaw controller: a yaw controller

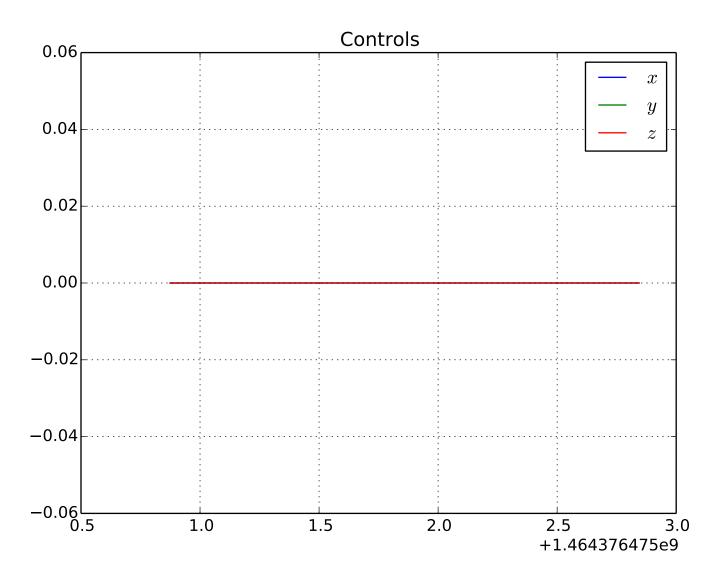
/2*ep + ev)|d_{xy}^{est(0)}| ≤ 0.0d<sub>z</s

yaw_reference: a yaw reference









Firefly, from RotorS, to track a desired trajectory. This mission depends on:

- controller: a trajectory tracking controller
- reference: a reference position trajectory to be tracked
- yaw_controller: a yaw controller
- yaw reference: a yaw reference
- controller=SimplePIDController:

PID Controller, with saturation on integral part

force(
$$\Delta t$$
, p,pd) = 1.669*(pd⁽²⁾ + u(p⁽⁰⁾ - pd⁽⁰⁾,p⁽¹⁾ - pd⁽¹⁾) + g e₃ - d^{est}), where

- $u_{xy}(p,v) = -1.0*p-1.0*v$
- $u_z(p,v) = -1.0*p-1.0*v$
- $d_{xy}^{est(1)} = 0.0*(kp/2*ep + ev)$
- $|d_{xy}^{est(0)}| \le 0.0$
- \circ $d_z^{\text{est}(1)} = 0.5*(\text{kp/2*ep} + \text{ev})$
- $|d_z^{est(0)}| \le 0.0$
- yaw_controller=SimpleTrackingYawController: SimpleTrackingYawController has no method object_description()
- reference=CircleTrajectory: CircleTrajectory has no method object description()
- yaw_reference=FixedYawTrajectory: FixedYawTrajectory has no method object_description()

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Firefly , from RotorS, to track a desired trajectory. This mission depends on:

controller: a trajectory tracking controller
reference: a reference position trajectory to be tracked
yaw controller: a yaw controller
yaw reference: a yaw reference
<i>r</i>

*(kp/2*ep + ev)|d_{xy}^{est(0)}| ≤ 0.0d<sub>

