Dev Mode/Command-line Mode

Initial Set

Time Horizon
Must be an Integer ≥ 0

Probability
Recorded percentage of simulation steps

Log Uncertainity
Interval between log entries

Log
Must be a **.lg** file.

Mode
- **equation**
- **ann**

Model
- **equation** → points to a **.json** file.
- **ann** → points to a **.h5** file.

States

Safety-Constraints
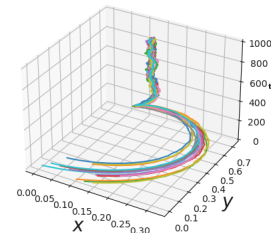Must point to a **.json** file.

Behavior

Get random trajectories

Log Generation

Check if the random trajectories are valid

Check Safety

Check trajectory safety

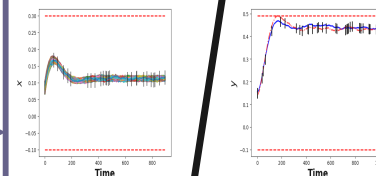Check log safety

Behavior Output

Plot showing behavior of system.

Log Generation Output

```
t=0: [[-0.000580, 0.019420], [0.065222, 0.085222]]
t=8: [[0.036696, 0.056696], [0.074716, 0.094716]]
t=47: [[0.156850, 0.176850], [0.201506, 0.221506]]
t=62: [[0.171364, 0.191364], [0.258984, 0.278984]]
t=106: [[0.170183, 0.190183], [0.397920, 0.417920]]
t=145: [[0.137241, 0.157241], [0.456199, 0.476199]]
t=194: [[0.104547, 0.124547], [0.466648, 0.486648]]
t=203: [[0.105039, 0.125039], [0.462601, 0.482601]]
t=216: [[0.099536, 0.119536], [0.457786, 0.477786]]
t=277: [[0.096577, 0.116577], [0.432629, 0.452629]]
```

.lg file

Safety Check Output

Plot showing safe trajectories.

Plot showing unsafe trajectory.

Safe or **Unsafe**