

## Meta Package: gazebo\_ros\_pkgs

### gazebo

Stand Alone Core

urdfdom

### gazebo\_ros

Formally simulator\_gazebo/gazebo

This package wraps gzserver and gzclient by using two Gazebo plugins that provide the necessary ROS interface for messages, services and dynamic reconfigure

**ROS node name:**  
gazebo

**Plugins:**  
gazebo\_ros\_api\_plugin  
gazebo\_ros\_paths\_plugin

**Usage:**  
roslaunch gazebo\_ros gazebo  
roslaunch gazebo\_ros gzserver  
roslaunch gazebo\_ros gzclient  
roslaunch gazebo\_ros spawn\_model  
roslaunch gazebo\_ros perf  
roslaunch gazebo\_ros debug

### gazebo\_msgs

Msg and Srv data structures for interacting with Gazebo from ROS.

### gazebo\_plugins

Robot-independent Gazebo plugins.

#### Sensory

gazebo\_ros\_projector  
gazebo\_ros\_p3d  
gazebo\_ros\_imu  
gazebo\_ros\_laser  
gazebo\_ros\_f3d  
gazebo\_ros\_camera\_utils  
gazebo\_ros\_depth\_camera  
gazebo\_ros\_openni\_kinect  
gazebo\_ros\_camera  
gazebo\_ros\_bumper  
gazebo\_ros\_block\_laser  
gazebo\_ros\_gpu\_laser

#### Motory

gazebo\_ros\_joint\_trajectory  
gazebo\_ros\_diffdrive  
gazebo\_ros\_force  
gazebo\_ros\_template

#### Dynamic Reconfigure

vision\_reconfigure  
hokuyo\_node  
camera\_synchronizer

### gazebo\_tests

Merged to gazebo\_plugins

Contains a variety of unit tests for gazebo, tools and plugins.

### gazebo\_worlds

Merged to gazebo\_ros

Contains a variety of unit tests for gazebo, tools and plugins.

wg  
simple\_erratic  
simple\_office  
wg\_collada\_throttled - delete  
wg\_collada  
grasp  
empty\_throttled  
3stacks  
elevator  
simple\_office\_table  
scan  
empty  
simple  
balcony  
camera  
test\_friction  
simple\_office2  
empty\_listener

### gazebo\_tools

Removed

### gazebo\_ros\_api\_plugin

#### Gazebo Subscribed Topics

~/set\_link\_state  
~/set\_model\_state

#### Gazebo Published Parameters

/use\_sim\_time

#### Gazebo Published Topics

/clock  
~/link\_states  
~/model\_states

#### Gazebo Services

~/spawn\_urdf\_model  
~/spawn\_sdf\_model  
~/delete\_model

#### State and properties getters

...

#### State and properties setters

...

#### Simulation control

~/pause\_physics  
~/unpause\_physics  
~/reset\_simulation  
~/reset\_world

#### Force control

~/apply\_body\_wrench  
~/apply\_joint\_effort  
~/clear\_joint\_forces  
~/clear\_body\_wrenches

### gazebo\_ros\_paths\_plugin

Provides ROS package paths to Gazebo

ROS packages

Gazebo Plugin

Deprecated from simulator\_gazebo