

1. <param> tag

The <param> tag defines a parameter to be set on the Parameter Server (/Parameter%20Server). Instead of value, you can specify a textfile, binfile or command attribute to set the value of a parameter. The <param> tag can be put inside of a <node> (/roslaunch/XML/node) tag, in which case the parameter is treated like a private parameter (/Names).

You can also set private parameter across a group of nodes by using the ~param syntax (see ROS names (/Names)) in a <param> tag. The declared parameter will be set as a local parameter in the <node> (/roslaunch/XML/node) tags that follow that are in the same scope (i.e. group or ns tag).

1.1 Attributes

name="namespace/name"

Parameter name. Namespaces can be included in the parameter name, but globally specified names should be avoided.

value="value" (*optional*)

Defines the value of the parameter. If this attribute is omitted, binfile, textfile or command must be specified.

type="str|int|double|bool|yaml" (*optional*)

Specifies the type of the parameter. If you don't specify the type, roslaunch will attempt to automatically determine the type. These rules are very basic:

- numbers with '.'s are floating point, integers otherwise;
- "true" and "false" are boolean (not case-sensitive).
- all other values are strings

textfile="\$(find pkg-name)/path/file.txt" (*optional*)

The contents of the file will be read and stored as a string. The file must be locally accessible, though it is strongly recommended that you use the package-relative \$(find)/file.txt syntax to specify the location.

binfile="\$(find pkg-name)/path/file" (*optional*)

The contents of the file will be read and stored as a base64-encoded XML-RPC binary object. The file must be locally accessible, though it is strongly recommended that you use the package-relative \$(find)/file.txt syntax to specify the location.

command="\$(find pkg-name)/exe '\$(find pkg-name)/arg.txt'" (*optional*)

The output of the command will be read and stored as a string. It is strongly recommended that you use the package-relative \$(find)/file.txt syntax to specify file arguments. You should also quote file arguments using single quotes due to XML escaping requirements.

1.2 Examples

```
<param name="publish_frequency" type="double" value="10.0" />
```

1.3 Parameters from YAML output

In order to load a YAML file, you can use:

```
<rosparam command="load" file="FILENAME" />
```

New in Lunar


But this doesn't work when using a command which outputs the parameters on stdout. In that case the new param type `yaml` can be used:

```
<param name="params_a" type="yaml" command="cat '$(find roslaunch)/test/params.yaml'" />
```

In the above example, the parameters from the described file would be loaded under the local namespace `params_a`.

Except

where

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