

The ROS tools

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Objective

The present document is a short summary of interesting tools provided by ROS that will be used later on during the lab course.

4.1

- `roscore` start the parent process that helps nodes finding each other
- `roscall` `list` prints the list of existing nodes
- `roscall` `info` `<topic>` print information regarding the specified node
- `roscall` `run` `<package>` `<node>` to start a specific node within a specific package
- `roscall` `run` `rqt_graph` `rqt_graph` open a new windows enabling one to see the ROS project architecture (i.e the nodes and the topics linking them)
- `roscall` `topic` `-h` prints a list of possible operations on ros topics
- `roscall` `topic` `list` lists all the topics
- `roscall` `topic` `echo` `<topic>` prints the content of a topic and update it live (CTRL+C to exit)
- `roscall` `topic` `echo` `<topic>/<field>` prints a specific field of the messages going through the specified topic
- `roscall` `launch` `<package>` `<filename-in-the-\launch-folder>` start a launch (i.e. launch multiple nodes at once for you)

Remark:

The students are invited to have a look at the tools' helper in order to have further insight on the offered options. For instance:

- `roscore --help`
- `roscall --help`
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