|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | map+loc | Map+loc+mission plan | Map+loc+mission+motion plan | Map+loc+motion plan |
| 1 | /Base\_link\_to\_localizer | /Base\_link\_to\_localizer | /astar\_avoid | /astar\_avoid |
| 2 | /joint\_state\_publisher | /can\_status\_translator | /Base\_link\_to\_localizer | /Base\_link\_to\_localizer |
| 3 | /ndt\_matching | /config\_waypoint\_loader\_rostopic | /can\_status\_translator | /config\_waypoint\_follower\_rostopic |
| 4 | /nmea2tfpose | /joint\_state\_publisher | /config\_waypoint\_follower\_rostopic | /joint\_state\_publisher |
| 5 | /play\_1634xxxx | /lane\_rule | /config\_waypoint\_loader\_rostopic | /ndt\_matching |
| 6 | /robot\_state\_publisher | /lane\_select | /joint\_state\_publisher | /nmea2tfpose |
| 7 | /rosout | /lane\_stop | /lane\_rule | /play\_1634xxxx |
| 8 | /runtime\_manager\_340\_ | /ndt\_matching | /lane\_select | /pure\_pursuit |
| 9 | /rviz\_xxxx | /nmea2tfpose | /lane\_stop | /robot\_state\_publisher |
| 10 | /velodyne\_nodelet | /play\_1634xxxx | /ndt\_matching | /rosout |
| 11 | /velodyne\_nodelet\_manager | /pose\_relay | /nmea2tfpose | /runtime\_manager\_340\_ |
| 12 | /velodyne\_nodelet\_manager\_driver | /robot\_state\_publisher | /play\_1634xxxx | /rviz\_xxxx |
| 13 | /voxel\_grid\_filter | /rosout | /pose\_relay | /twist\_filter |
| 14 |  | /runtime\_manager\_340\_ | /pure\_pursuit | /twist\_gate |
| 15 |  | /rviz\_xxxx | /robot\_state\_publisher | /vehicle\_receiver |
| 16 |  | /vel\_relay | /rosout | /vehicle\_sender |
| 17 |  | /velodyne\_nodelet | /runtime\_manager\_340\_ | /velocity\_set |
| 18 |  | /velodyne\_nodelet\_manager | /rviz\_xxxx | /velodyne\_nodelet |
| 19 |  | /velodyne\_nodelet\_manager\_driver | /twist\_filter | /velodyne\_nodelet\_manager |
| 20 |  | /voxel\_grid\_filter | /twist\_gate | /velodyne\_nodelet\_manager\_driver |
| 21 |  | /waypoint\_loader | /vehicle\_receiver | /voxel\_grid\_filter |
| 22 |  | /waypoint\_marker\_publiser | /vehicle\_sender |  |
| 23 |  | /waypoint\_replanner | /vel\_relay |  |
| 24 |  |  | /velocity\_set |  |
| 25 |  |  | /velodyne\_nodelet |  |
| 26 |  |  | /velodyne\_nodelet\_manager |  |
| 27 |  |  | /velodyne\_nodelet\_manager\_driver |  |
| 28 |  |  | /voxel\_grid\_filter |  |
| 29 |  |  | /waypoint\_loader |  |
| 30 |  |  | /waypoint\_marker\_publiser |  |
| 32 |  |  | /waypoint\_replanner |  |