

Please see README to know how to setup, parameters, and other details. **Steps to Test or Reproduce Offline Test** 1. Setup VCAN Q \$ sudo ip link add dev vcan type vcan \$ sudo ip link set up vcan 2. Launch g30esli_interface with VCAN port Q \$ roslaunch ymc g30esli_interface.launch device:=vcan 3. Play CAN log (example) by can_utils and check /vehicle_status \$ canplayer vcan=can0 -I test_can.log \$ rostopic echo /vehicle_status header: seq: 3874 stamp: secs: 1558060705 nsecs: 935375765 frame_id: "base_link" tm: '' drivemode: 1 steeringmode: 1 gearshift: 1 speed: 0.0 drivepedal: 0 brakepedal: 0 angle: 6.69999980927 lamp: 0 light: 0 On the terminal launching g30esli_interface, you can see CAN level vehicle status under Debug verbose \$ rosservice call /g30esli_interface/set_logger_level ros.ymc De___ Status [181] speed.target = 0 speed.actual = 0 speed.desired = 0

steer.target = -4

4. Check CAN level vehicle command with vehicle_cmd recorded in rosbag (example)

```
$ rosbag play test_vehicle_cmd.bag
```

On the terminal launching g30esli_interface, you can see CAN level vehicle command under Debug verbose

```
Command[39]

speed = 3.6817

steer = -17.965

mode = 8

brake = 0

shift = 0

alive = 39

turn = 0

flasher = 4
```

Online Test

- 1. Confirm safety around your vehicle.
- 2. Launch Autoware nodes and check to correctly provide /vehicle_cmd topic.

NOTE: Please make sure that the Publishes topic for steering robot is checked in Pure pursuit.

3. Connect and setup CAN interface. (NOTE: We generally use PEAK System PCAN-USB)

```
$ rosrun ymc canset up can0
```

4-1. Launch g30esli_interface node.

```
$ roslaunch ymc g30esli_interface.launch
device:=can0
```

And then your car should move by vehicle_cmd topic.

4-2. If you want to use DS4 joystick, launch with use_ds4 option and connect your joystick controller. \$ roslaunch ymc g30esli_interface.launch device:=canX use_ds4:=true ds4_wired:=true or \$ roslaunch ymc g30esli_interface.launch device:=canX use_ds4:=true ds4_wired:=false Bluetooth And then, your car should move by joystick controller. For controlling by vehicle_cmd , press PS button. Please see README to know DS4 button binding aohsato requested review from yn-mrse and wep21 5 years ago aohsato mentioned this pull request on Mar 20, 2019 [Feature] Support full functions of 1 Closed g30esli_interface #1962 2 tasks square gbiggs added type:new-feature in progress and removed in progress labels on Mar 21, 2019 packato changed the base branch from develop to master 5 years ago wep21 requested changes View reviewed changes on May 14, 2019



wep21 left a comment

Contributor

Could you add install directives for script directory and ds4 submodule to build with colcon?



aohsato commented on May 14, 2019 • edited ▼ (Author

<u>@wep21</u> I fixed that by adding "catkin_install_python" in 873379b.



gbiggs commented on May 14, 2019

Please add the sign-off line to your commits.



yn-mrse commented on May 14, 2019

I tested the operation until 94760dc, but had the following problems.

Have these problems been solved?

- It takes longer to brake than previous versions.
- I can not start again after braking.



aohsato force-pushed the

feature/improve_ymc_interface branch from elb57a8 to **42f4281** 5 years ago Compare



aohsato commented on May 15, 2019

Author

@gbiggs Thanks. I added using cherry-pick.



aohsato commented on May 15, 2019

Author

@yn-mrse Since you said those problems, I added braking logic in cfd3f58 and restating logic in 7bf69ad. Thanks for your review.



gbiggs commented on May 15, 2019

@yn-mrse Please confirm if the problem you found has been fixed.



wep21 requested changes on May 16, 2019

View reviewed changes

ros/src/actuation/ve hicles/packages/ymc/ (Outdated)

\$\displaystyle{\psi}\$ Show resolved

yn-mrse reviewed on May 16, 2019

README.md

View reviewed changes

ros/src/actuation/ve hicles/packages/ymc/





node/g30esli_interfa
ce/g30esli_ros.cpp



yn-mrse reviewedon May 16, 2019

View reviewed changes

ros/src/actuation/ve
hicles/packages/ymc/
node/g30esli_interfa
ce/g30esli_ros.cpp



• Show resolved



aohsato commented on May 17, 2019

Author

<u>@wep21</u> <u>@yn-mrse</u> Thanks for your code review. I updated this PR with the more detailed testing process, please check if you can.



wep21 commented on May 17, 2019

Contributor

<u>@aohsato</u> I tried offline test as described above. I could obtain a desired result as following.



wep21 reviewedon May 17, 2019

View reviewed changes

ros/src/actuation/ve
hicles/packages/ymc/
node/g30esli_interfa
ce/g30esli_ros.cpp

Outdated

\$\div \text{Show resolved}

ros/src/actuation/ve
hicles/packages/ymc/
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Outdated

\$\displaystyle{\psi}\$ Show resolved



yn-mrse reviewedon May 17, 2019

View reviewed changes

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ce/g30esli_ros.cpp

Outdated

\$\displaystyle{\psi}\$ Show resolved



yn-mrse commented on May 17, 2019

#2139 (comment)

<u>@aohsato</u> <u>@gbiggs</u> The corresponding part has been verified at the code level.



yn-mrse commented on May 17, 2019

<u>@aohsato</u> Conducted an online test and confirmed the operation.

The parts necessary for the correction are as described above. It has been confirmed that it works without any problems if these patches are added.



gbiggs changed the title [Feature] Support full functions of g30esli_interface Support full functions of g30esli_interface on May 19, 2019



gbiggs commented on May 19, 2019

<u>@yn-mrse</u> <u>@wep21</u> Please confirm if your review comments have been dealt with satisfactorially, and if they have please set your review to "approved".

<u>@aohsato</u> Some of your commits are missing the DCO sign-off line.



wep21 previously approvedthese changes on May 19, 2019

View reviewed changes

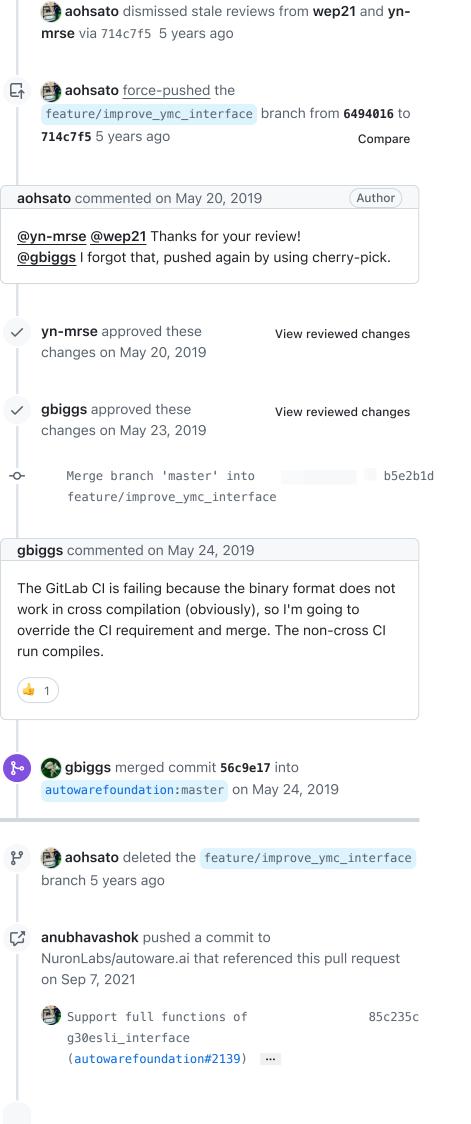
wep21 left a comment

Contributor

<u>@aohsato</u> Thank you for your modification. I checked the modification I pointed out.

23 hidden items Load more...

	aol	nsato added 18 commits <u>5 years ago</u>	
		Refactor code, separated to g30esli_ros/interface	e4e6897
-		Move headers to include	a75401c
\rightarrow		Add bettery charge [%] topic -> /vehicle/battery	a0b6784
-		Fix names	e88d8ac
-		Apply clang-format	c1301b4
		Add engaging topic and mutex for engage command	25a25f9
-0-		Update LICENSE	c06dda5
\rightarrow		Fix re-engage problem by adding 300ms wait	37c1273
0		Add brake control (G30ESLI_BRAKE_SM00TH)	5f9a018
-		Fix CMake for colcon	7a39b57
0		Add the command resetting logic for restart	161699d
-		Add README	c5e2fe4
-0-		Fix README	0dcc799
~		Fix bug of restaring condition and debug message	849615a
-		Fix time initialization	bc2f1da
-		Fix unit in README	fd3bf25
φ		Add engage condition to speed command by joystick	8785fbc
\rightarrow		Modify stop_keep_secs according to real vehicle test	714c7f5



mitsudome-r added the version:autoware-ai label on Jun 14, 2022