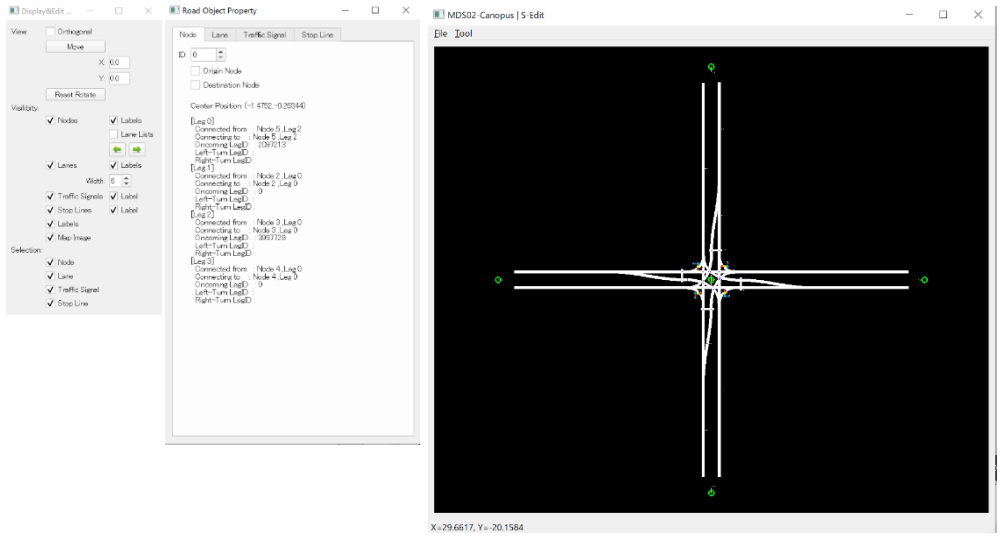
1. Overview of Procedure

Step 1. Prepare the simulation data files using “SEdit”



*.rc.txt

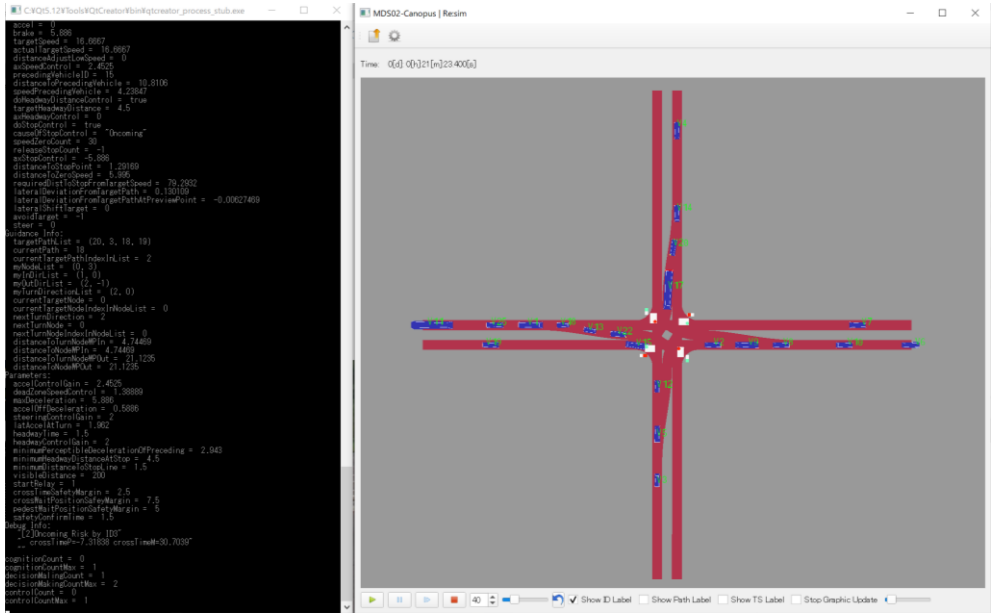
*.rr.txt

*.rs.txt

*.ts.txt

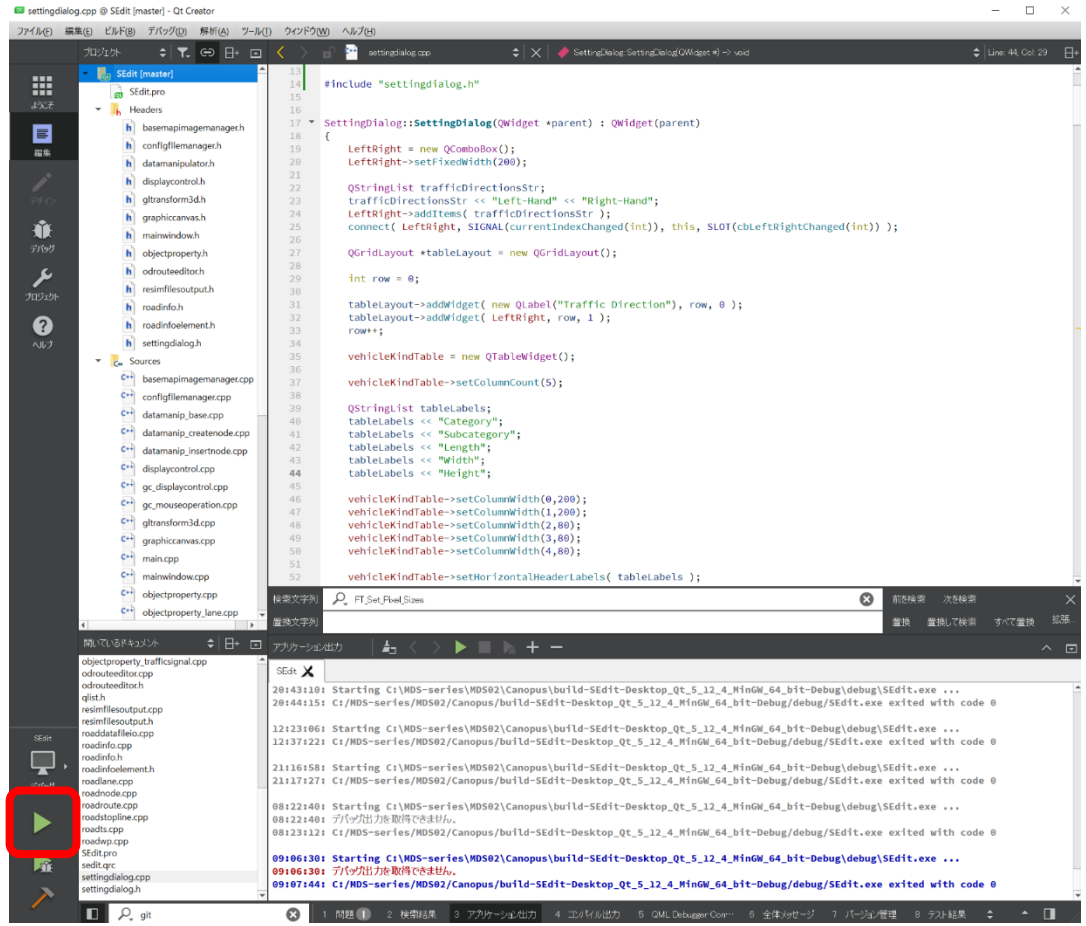
Simulation data files

Step 2. Run simulation program “Re:sim”



2. How to run the programs

(1) With Qt Creator



Notice:

Following files should be copied to the folder where executable file exist.

SEdit

- Sedit_shader_def.txt
- vertex_shader.vert
- fragment_shader.frag
- togoshi-mono.ttf

*Download from https://github.com/Reisim/SEdit/tree/master/shaders_fonts

Re:sim

- resim_shader_def.txt
- resim_vertex_shader.vert
- resim_fragment_shader.frag
- togoshi-mono.ttf

*Download from https://github.com/Reisim/Reisim/tree/master/shaders_fonts

If shadow build option is checked, the executable file exist in, for example,

C:¥SEdit¥build-SEdit-Desktop_Qt_5_12_4_MinGW_64_bit-Debug¥debug

for debug build (depend on version of Qt).

(2) Standalone

Doble click the icon “sedit.exe” / “reisim.exe” or run from DOS-prompt console.

Notice:

Following DLL files are required to exist in your path.

libgcc_s_seh-1.dll
libstdc++-6.dll
libwinpthread-1.dll
zlib1.dll
Qt5Core(d).dll
Qt5Gui(d).dll
Qt5Network(d).dll
Qt5OpenGL(d).dll
Qt5Widget(d).dll

* These files can be found for example,
C:¥Qt¥5.12.4¥mingw73_64¥bin

* (d): for debug build

Following folder and the DLLs should be placed in the same folder where executable file exist or included in your path.

platforms

qdirect2d(d).dll
qminimal(d).dll
qoffscreen(d).dll
qwindows(d).dll

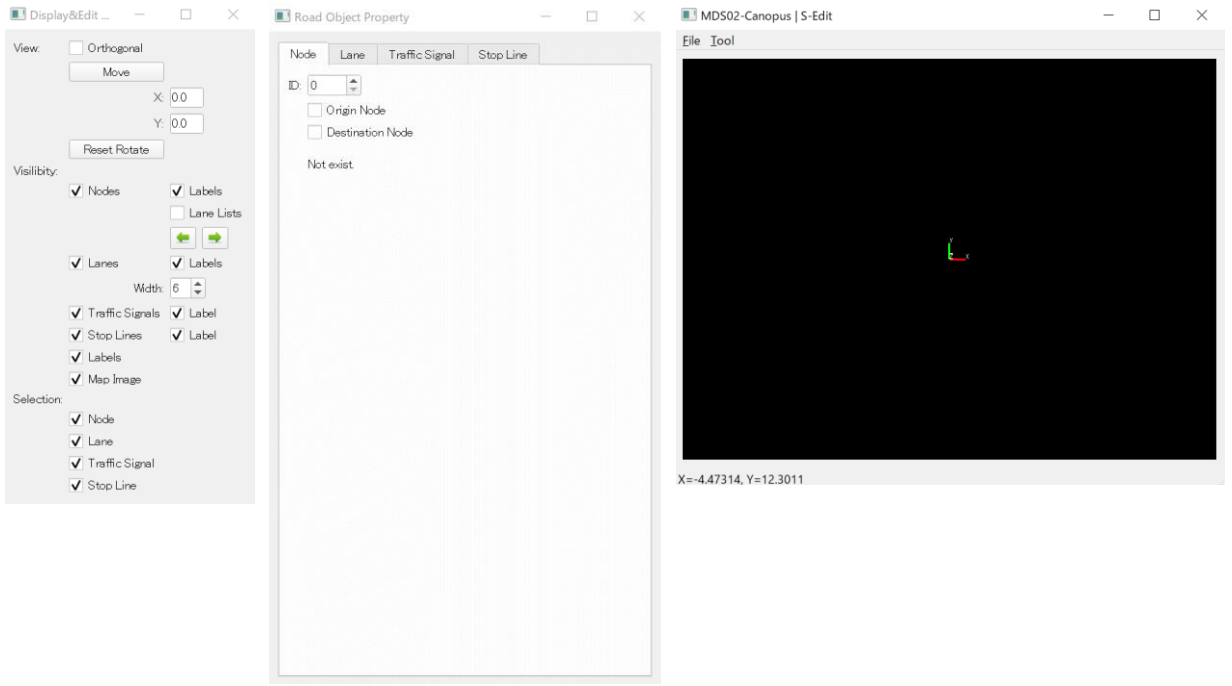
* The folder and these files can be found for example,
C:¥Qt¥5.12.4¥mingw73_64¥plugins

* (d): for debug build

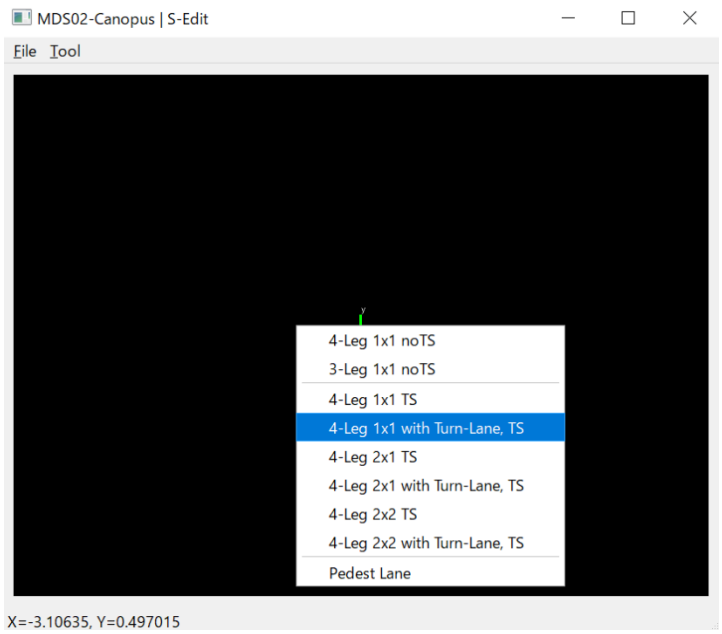
The shader and font files shown in the previous page should be placed in the current folder.

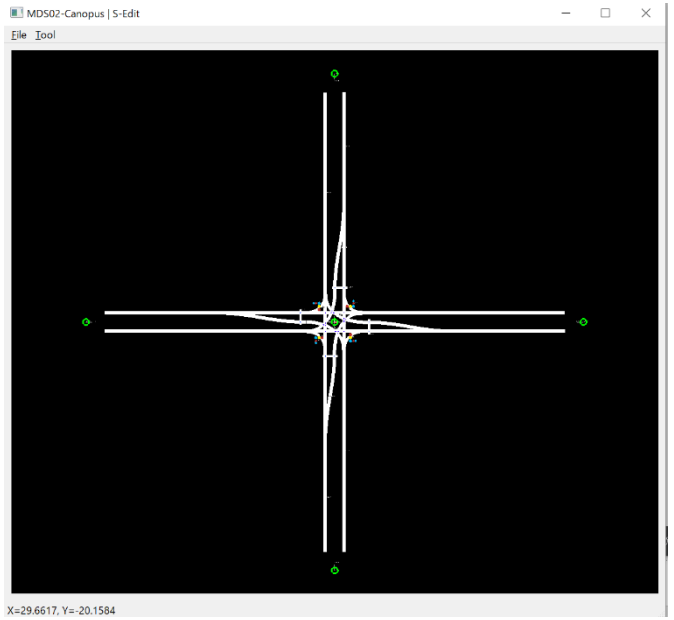
3. How to make simulation data

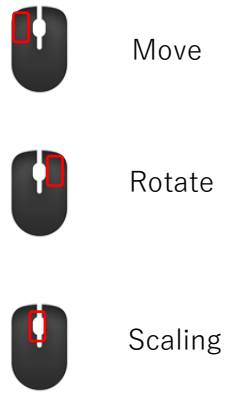
(1) Run SEdit



(2) Create Intersection

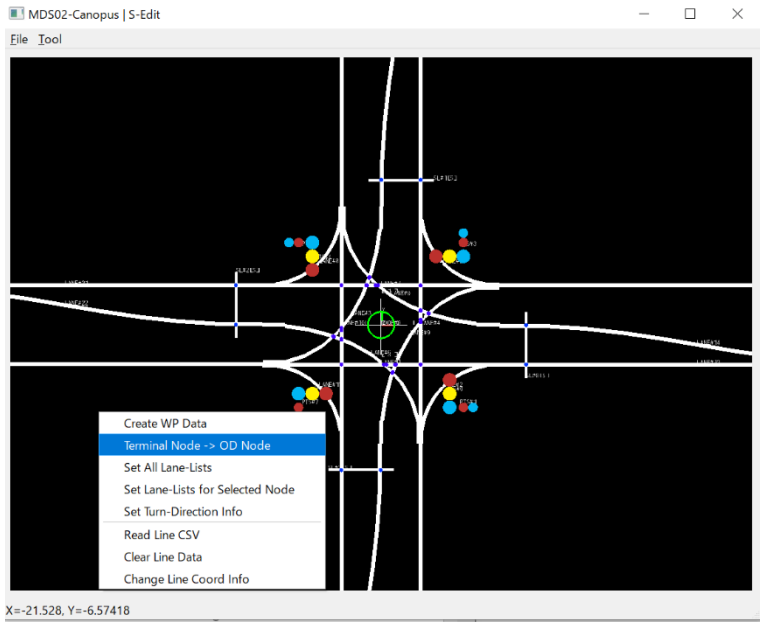




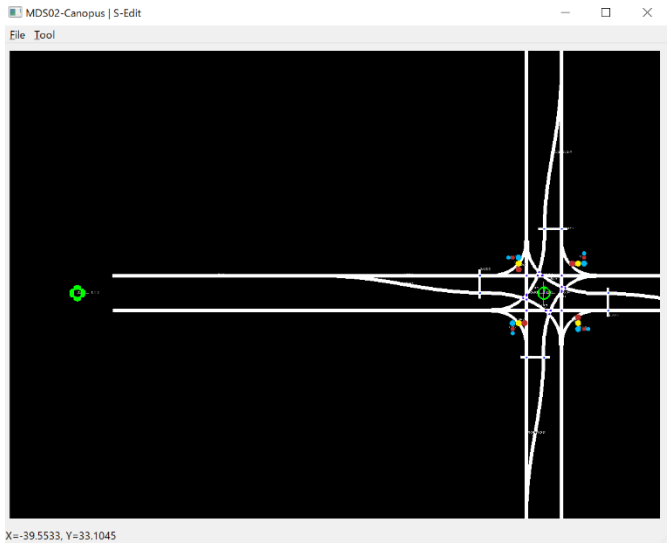


Click on the point and press "ALT"+"N" to show popup-menu.

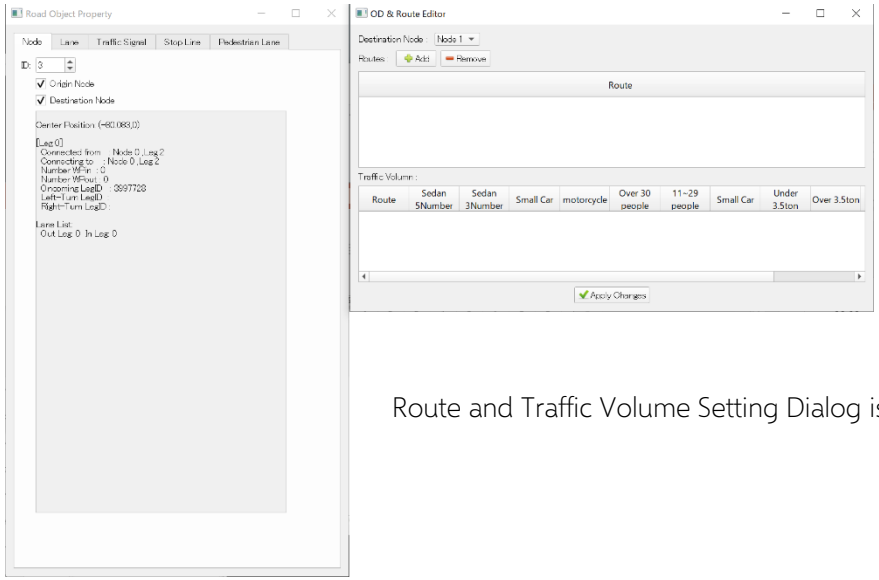
(3) Set Traffic Volume Data



Select "Terminal Node -> OD Node" of the popup-menu which appears by pressing "ALT"+ "u" key.

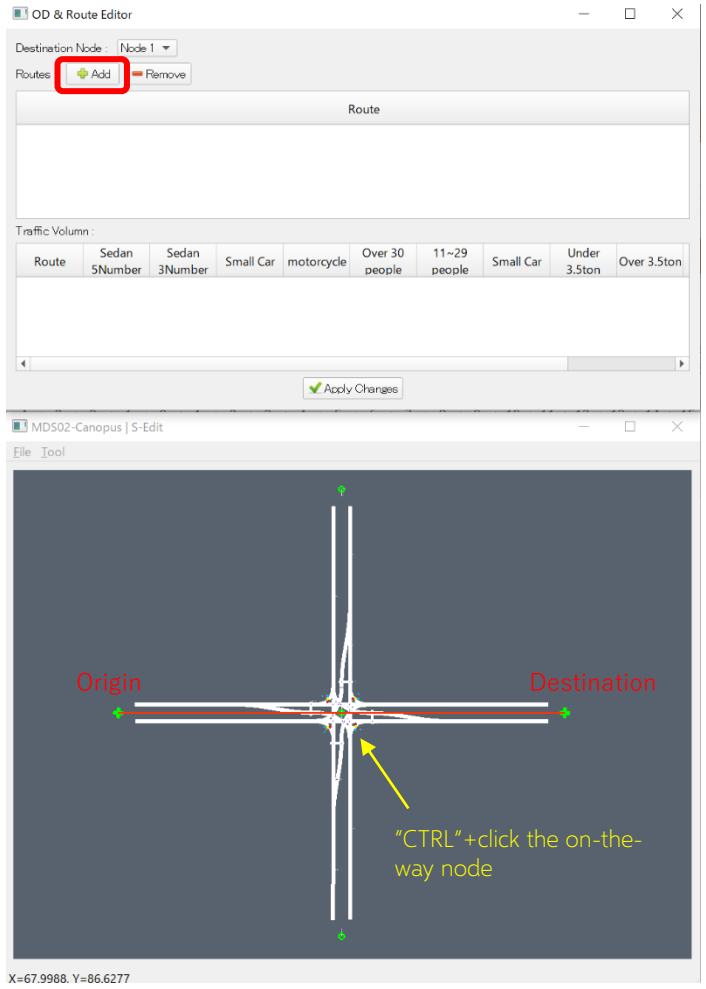


Select the terminal node by "CTRL" + left click

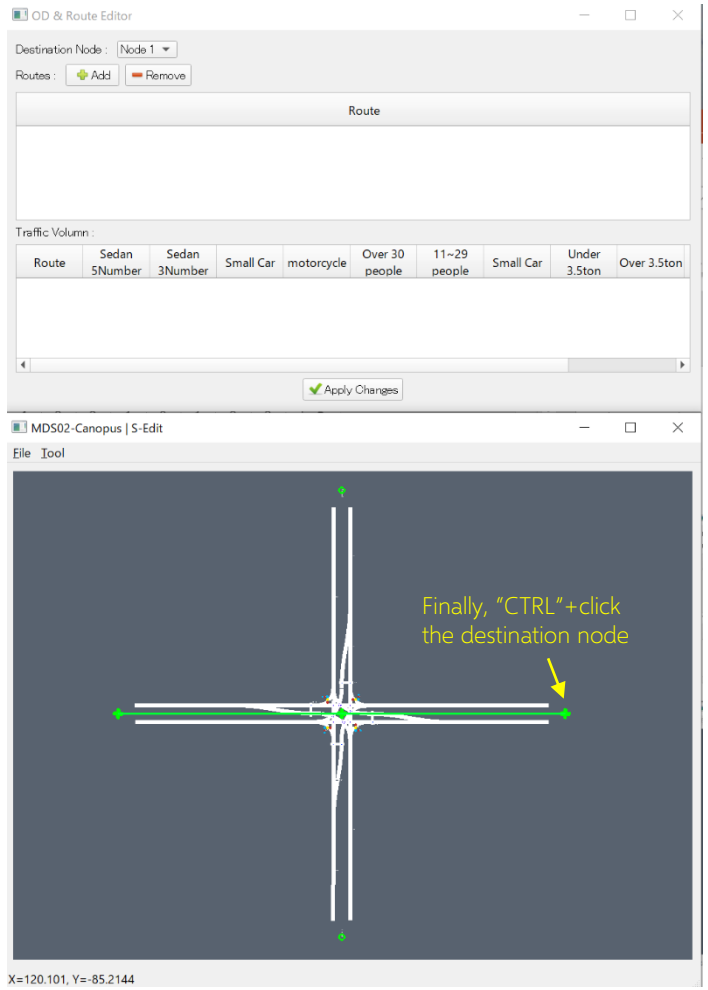


Route and Traffic Volume Setting Dialog is shown.

! Repeat this operation for all combinations of origin and destination node.

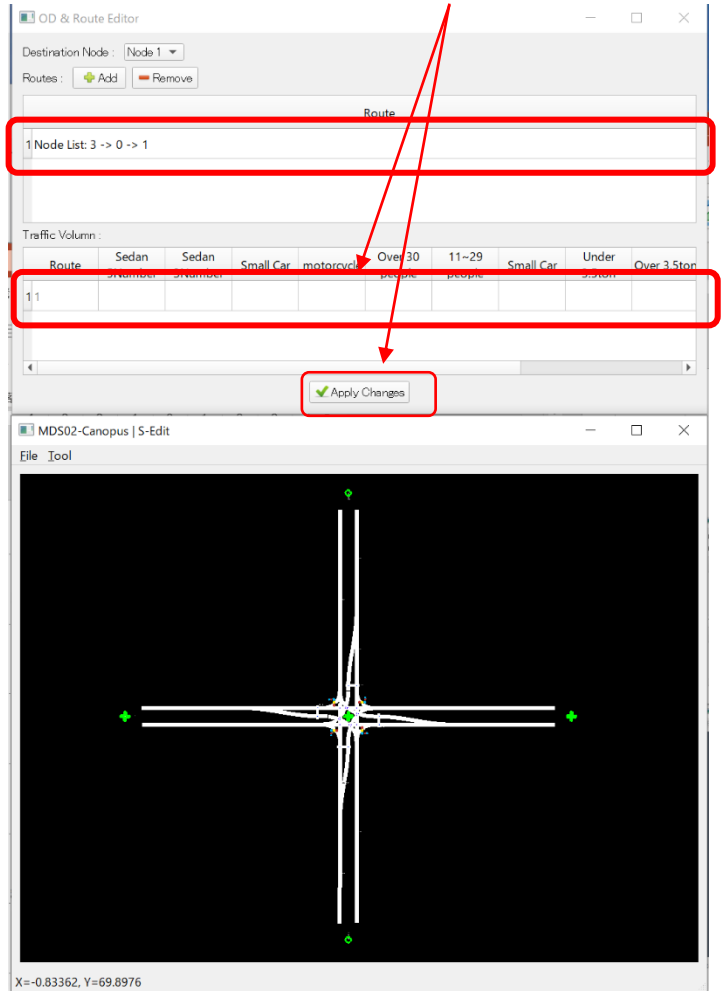


Click "Add" button to create new route data to destination node.



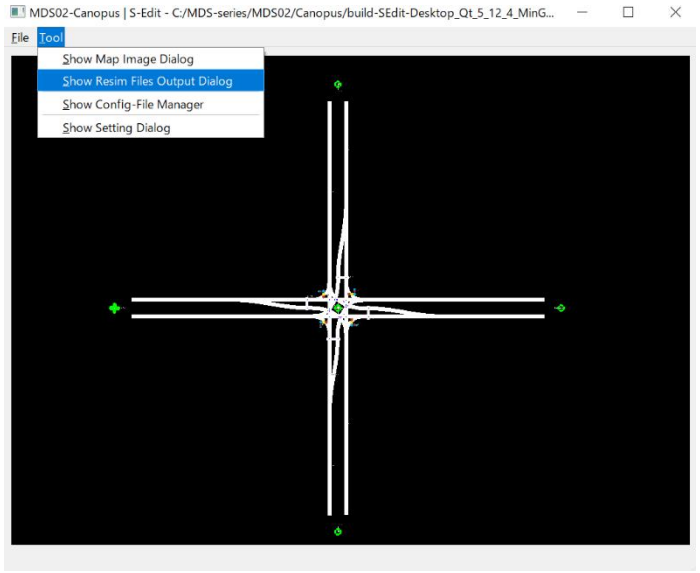
"CTRL" + click the nodes in the order vehicle should go through to reach the destination node.

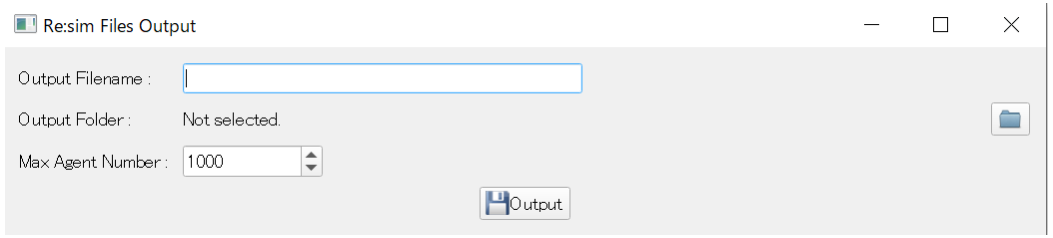
Set Traffic Volume data: unit is [vehicle/hour].
Then, push "Apply Change" button.

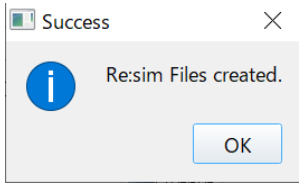


If valid, the route data is added in the table and now Traffic Volume data can be set.
Press "Apply Changes" to keep this route data.

(4) Simulation Data File Output

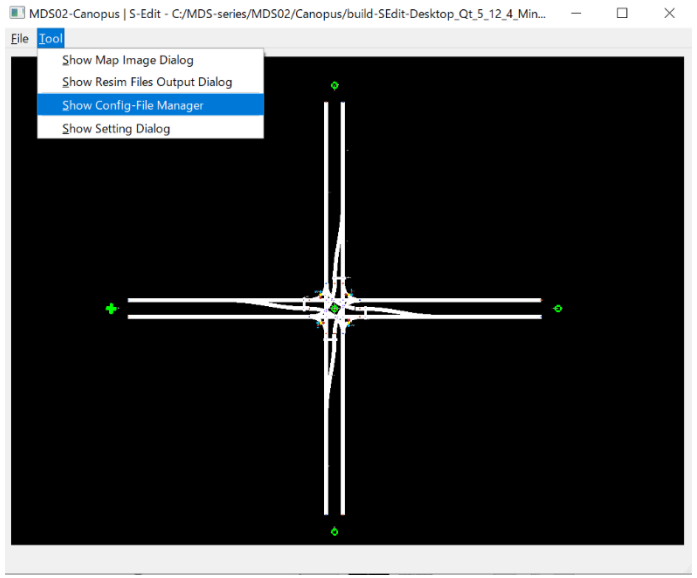


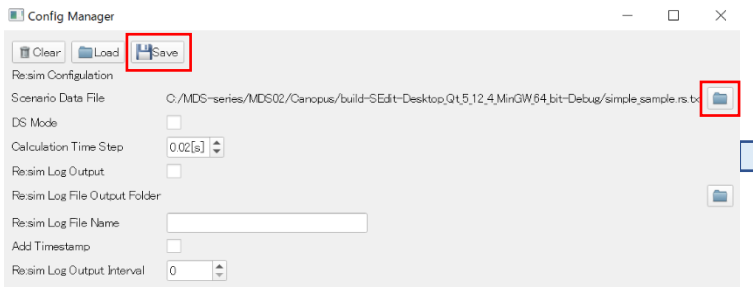




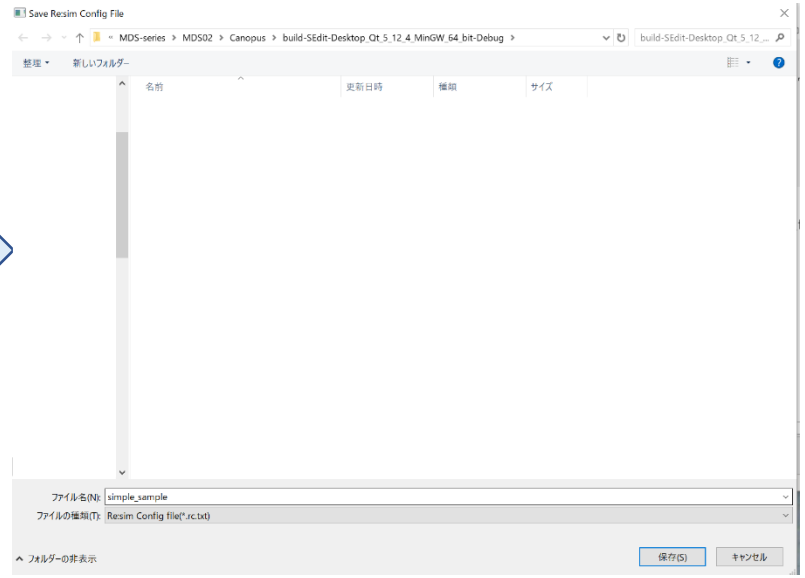
Input Output Filename and select Output Folder.
Then press “Output” button.

(5) Making Simulation Configuration File





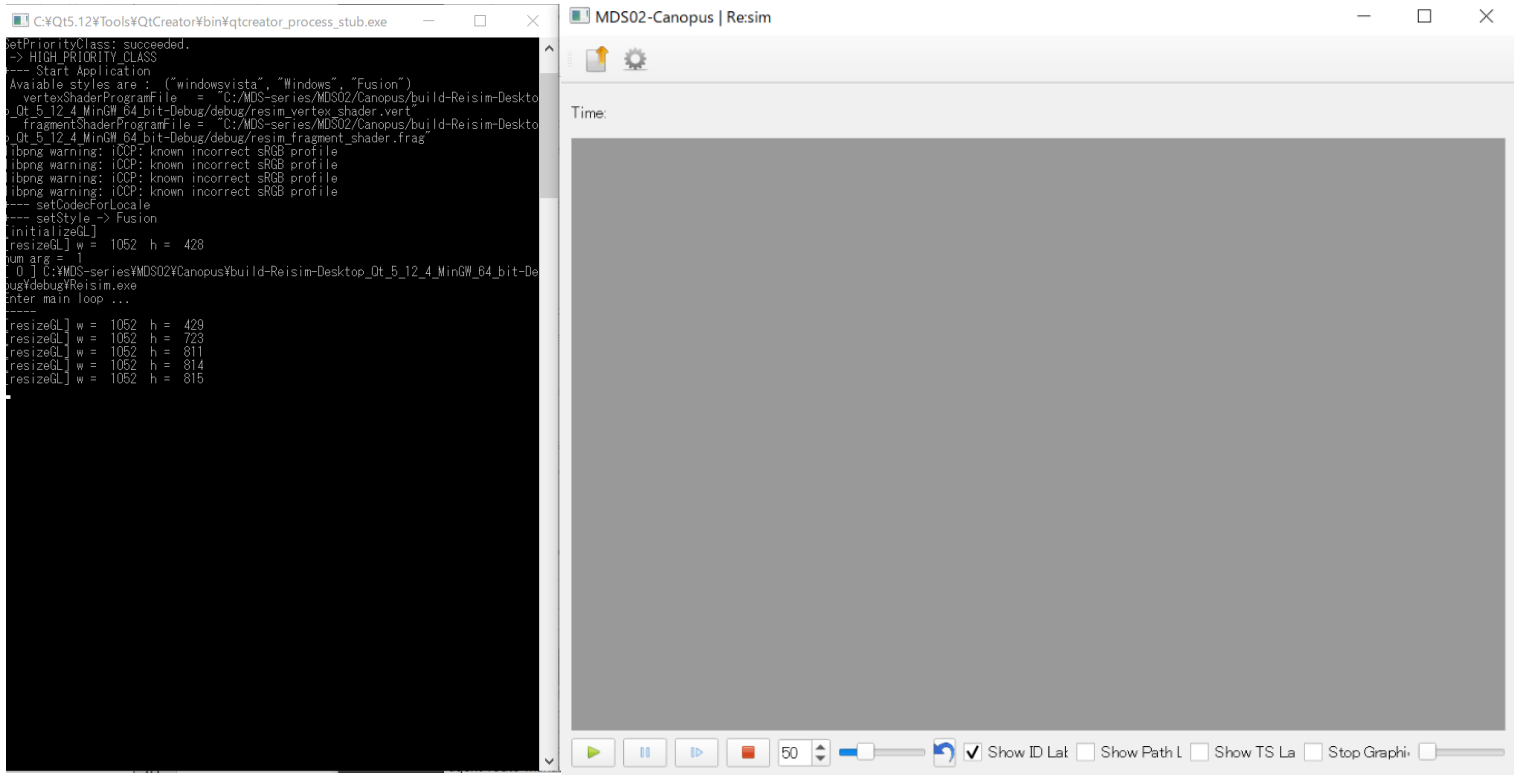
Select Scenario Data File(*.rs.txt), which has already been made in the previous Step, (4) Simulation Data File Output.



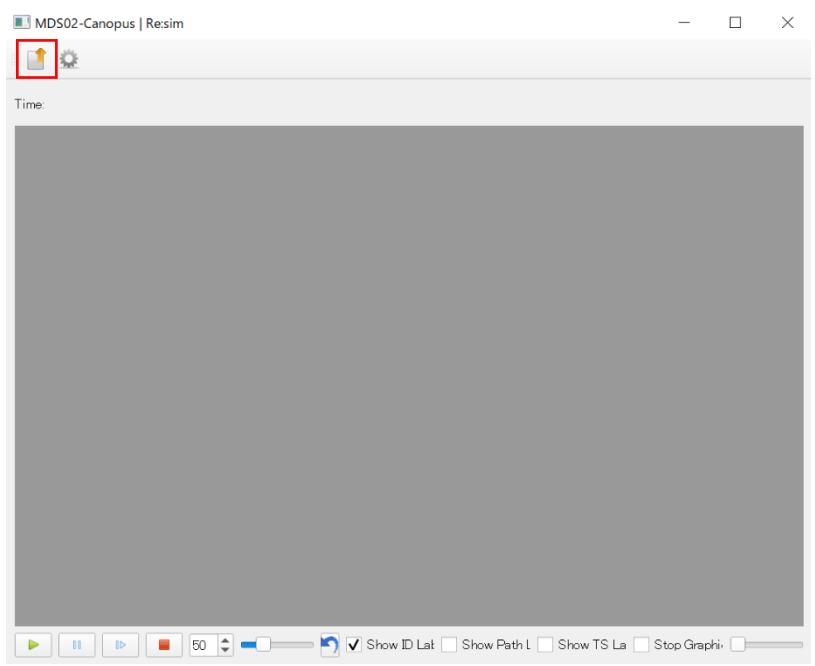
Input output file name.

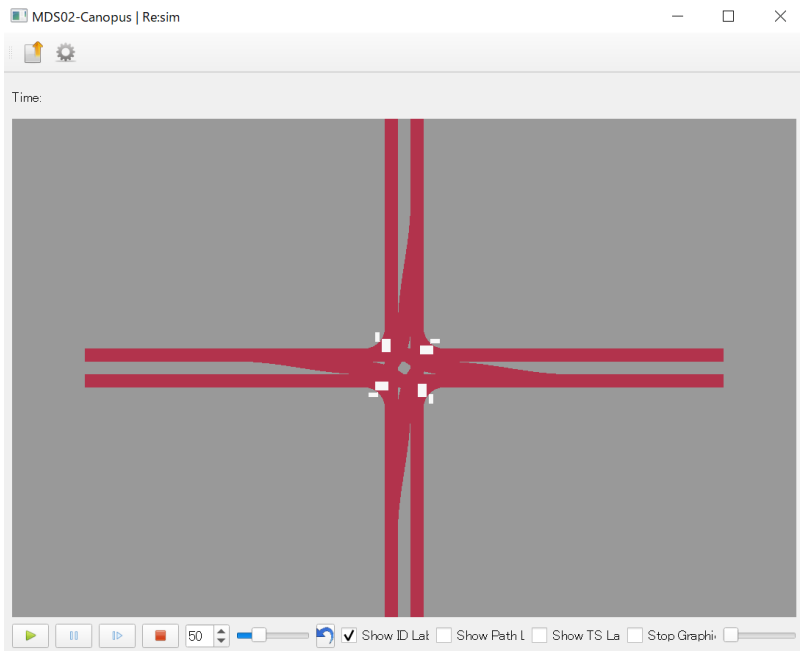
4. How to run simulation

(1) Run Re:sim



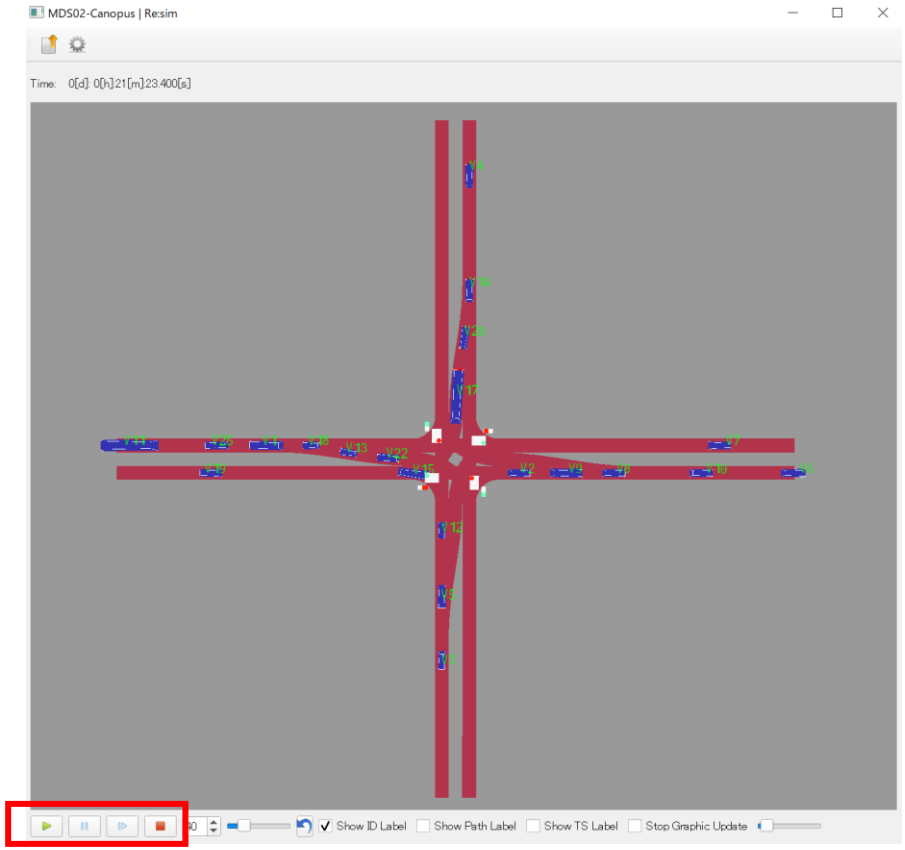
(2) Select configuration file



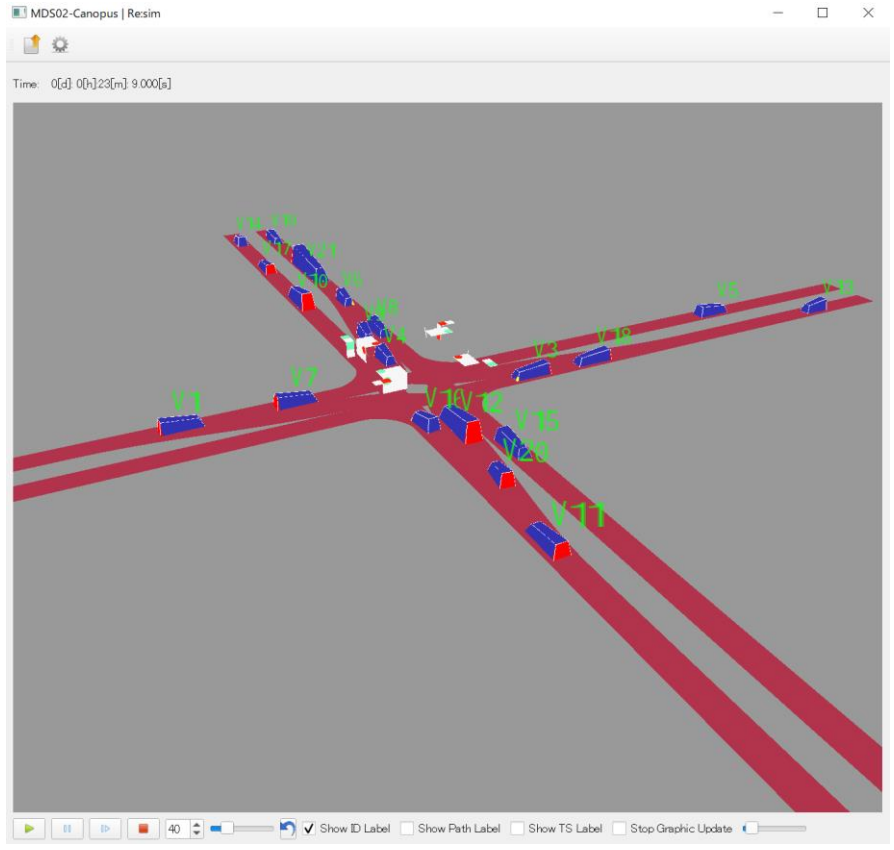


The configuration file to select is the one created by the procedure (5), Making Simulation Configuration File, by SEdit.

(3) Start Simulation



Control buttons



Move

Rotate

Scaling