# Interface configuration file for SimLink - 2017

#

# This is the configuration file for the SimLink Interface program

# used in conjunction with the OpenPLC and the Simulink application.

# In order to send and receive data between the Simulink and the

# OpenPLC stations, SimLink needs to know the IP address for the

# machine running the Simulink application and also information

# about the exported variables for each OpenPLC station.

#

# To add variables to one station, type the name of the station

# followed by the command "add" plus the type of variable you

# want to be added. The number after the "=" sign is the UDP

# port used by the simulink UDP connection to send or receive

# the variable. Ex: station0.add(digital\_out) = "10001"

#

# The variables added to the station will be connected to the

# OpenPLC buffer in the order they appear. Therefore, the first

# digital\_out will be connected to OpenPLC %QX0.0 (coils buffer

# at position 0.0). The second digital\_out will be %QX0.1 and so on...

#

# Different types of variables (digital\_out, analog\_in) are

# connected to different buffers. Therefore if after the two

# digital\_out's mentioned above there is a analog\_in, it will

# be connected to %IW0 (analog input buffer position 0)

num\_stations = "4"

comm\_delay = "100"

# ------------

# SIMULINK

# ------------

simulink.ip = "192.168.88.254"

# ------------

# STATION 0

# ------------

station0.ip = "localhost"

# South stoplight

station0.add(digital\_out) = "25001"

station0.add(digital\_out) = "25002"

station0.add(digital\_out) = "25003"

# East stoplight

station0.add(digital\_out) = "25004"

station0.add(digital\_out) = "25005"

station0.add(digital\_out) = "25006"

# North stoplight

station0.add(digital\_out) = "25007"

station0.add(digital\_out) = "25008"

station0.add(digital\_out) = "25009"

# West stoplight

station0.add(digital\_out) = "25010"

station0.add(digital\_out) = "25011"

station0.add(digital\_out) = "25012"