# configuration file for SimLink - 2017

#

# 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 = "1"

comm\_delay = "100"

simulink.ip = "localhost"

# this interface file and simlink file will run in the docker container,

# so this ip should always be localhost except in unusual circumstances

station0.ip = "localhost"

# offset\_out\_parker AT %QW1: INT;

# offset\_out\_ruggles AT %QW2: INT;

# offset\_out\_forsyth AT %QW3: INT;

# phase\_1\_parker AT %QW4: INT;

# phase\_2\_parker AT %QW5: INT;

# phase\_3\_parker AT %QW6: INT;

# phase\_1\_ruggles AT %QW7: INT;

# phase\_2\_ruggles AT %QW8: INT;

# phase\_3\_ruggles AT %QW9: INT;

# phase\_4\_ruggles AT %QW10: INT;

# phase\_5\_ruggles AT %QW11: INT;

# phase\_6\_ruggles AT %QW12: INT;

# phase\_1\_forsyth AT %QW13: INT;

# phase\_2\_forsyth AT %QW14: INT;

# phase\_3\_forsyth AT %QW15: INT;

# AT %QW0 : INT;

station0.add(analog\_out) = "26000"

# AT %QW1 : INT;

station0.add(analog\_out) = "26001"

# AT %QW2 : INT;

station0.add(analog\_out) = "26002"

# AT %QW3 : INT;

station0.add(analog\_out) = "26003"

# AT %QW4 : INT;

station0.add(analog\_out) = "26004"

# AT %QW5 : INT;

station0.add(analog\_out) = "26005"

# AT %QW6 : INT;

station0.add(analog\_out) = "26006"

# AT %QW7 : INT;

station0.add(analog\_out) = "26007"

# AT %QW8 : INT;

station0.add(analog\_out) = "26008"

# AT %QW9 : INT;

station0.add(analog\_out) = "26009"

# AT %QW10 : INT;

station0.add(analog\_out) = "26010"

# AT %QW11 : INT;

station0.add(analog\_out) = "26011"

# AT %QW12 : INT;

station0.add(analog\_out) = "26012"

# AT %QW13 : INT;

station0.add(analog\_out) = "26013"

# AT %QW14 : INT;

station0.add(analog\_out) = "26014"

# AT %QW15 : INT;

station0.add(analog\_out) = "26015"