Some students have told me they wanted to use Simulink to test the models, but had found difficult to implement it.

So, for the students who intend to implement some solutions of Project 0 using Simulink; here you have a “s-function” in Matlab, for being used as a block in Simulink.

I also include a trivial program (MDL file) in which we use that block.

The block does implement the dynamics of 3 interconnected tanks (Two powerpoint slides explain that model, PDF file)

The block is implemented in the m file “S_Tanks.m”

It is for a discrete time simulation, assuming certain sample time (you will infer it reading the code)

The model is linear, but you can modify it, for implementing other dynamics, even no-linear ones..

(for instance the car’s kinematics, used in project 0.)

Do not hesitate in asking, if you have questions.

Note: before running the Simulink model (MDL file) be sure the you are in the folder which contains the M file, using the command cd.

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MTRN4010/2021.T1