
Algorithm 1 Parse Simulink model data

INPUT: source path of slx or mdl model files

OUTPUT: json data files

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1: Prepare the list for all the slx or mdl files
2: for each file in the list do
3:   create a model node that represents the model
4:   read the blocks from the model
5:   for each block in the list do
6:     create a block node that represents the block
7:     create a block-model relationship that represents the block with
        model
8:   end for
9:   read the ports from the model
10:  for each port in the list do
11:    create a port node that represents the port
12:    create a port-block relationship that represents the port with block
13:  end for
14:  read the lines from the model
15:  for each line in the list do
16:    create a port-to-port node relationship that represents the model
        line/signal
17:  end for
18:  create a json data file for each model
19: end for
```
