TEMPLE UNIVERSITY

Tongdi Zhou <tug39574@temple.edu>

Re: Serial Port Conflict [ref:_00Di0Ha1u._5000ZsIzak:ref]

Eeshan Mitra <support@mathworks.com> Wed, Oct 4, 2017 at 9:54 AM
To: "tug39574@temple.edu" <tug39574@temple.edu>

Hello Tongdi,

I am writing in reference to your Technical Support Case #02773786 regarding 'Serial Port Conflict'.

My colleagues and I have developed a workaround for Stateflow. Since we were able to use MATLAB Functions for sharing the TCP/IP object previously, we added a MATLAB Function block within Stateflow Charts to read the TCP/IP object and its property InputBufferSize. Please see the attached model for reference. I have a couple of other points I wanted to make regarding the use case.

- The order of execution of the TCP/IP object creation chart and the chart where the object is read is important. This is because the object must exist in the MATLAB Base Workspace before it can be accessed. One way to ensure this would be to have dummy outputs, as we have done in this model. (I believe you had done something similar in your case when you tried to modify the model).
- The way this is currently done is not documented or recommended. Although these set of commands work fine in MATLAB, Simulink is not meant to share TCP/IP objects. For this reason, the Instrumentation Control Toolbox had the TCP/IP Send/Receive blocks that serves the purpose more efficiently. Please consider migrating to this workflow in the future if possible. Here is an example showing the usage of these blocks : https://www.mathworks.com/help/instrument/building-simulink-models-to-send-and-receive-data.html#brcdzfj-1

I hope that the workaround I described resolves the issue, and am closing the case. Please feel free to email me back if you have related questions. I'll be happy to reopen the case and investigate further.

Sincerely,
Eeshan Mitra
MathWorks Technical Support Department

Please preserve the Reference ID in further correspondence on this query. This allows our systems to automatically associate your reply to the appropriate Case.

If you have a new technical support question, please submit a new request here:
http://www.mathworks.com/support/servicerequests/create.html

Self-Service: http://www.mathworks.com/support
File Exchange and MATLAB Answers: http://www.mathworks.com/matlabcentral/

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