

FAQ 219

RTI Blocks in Custom Simulink Libraries

Keywords

Custom Simulink® library; Library-linked; RTI blocks; copy subsystem block

Question

I have created a Simulink library that is organized in subsystem blocks. Some of the subsystem blocks contain blocks from the RTI libraries.

When I copy a subsystem block from my library to a model, the following error occurs:

```
Error using ==> set_param Attempting to override parameters of a block
'<blockpath>' which is inside a library link
```

What is the reason for this error?

Solution

Some of the RTI blocks need to modify their contents when they are copied. In case an RTI block is part of a library-linked subsystem block Simulink prevents modifications in general. This is a protection mechanism of Simulink to avoid accidental modifications.

However, the block-specific Simulink parameter `MaskSelfModifiable` allows a subsystem block to modify itself, even if it is linked to a Simulink library. This setting is necessary if a subsystem block contains RTI blocks.

To ensure that a library-linked subsystem block has the `MaskSelfModifiable` setting, follow these steps:

- Open your custom Simulink library and select `Unlock` from the Edit menu.
- Select the self-modifying subsystem block and ensure that this block is masked. This is necessary as the `MaskSelfModifiable` parameter can only be set for masked subsystem blocks.
- Enter the following command at the MATLAB® prompt:

```
set_param(gcbh, 'MaskSelfModifiable', 'on')
```

Since MATLAB R13, the parameter can also be set by selecting the option `Allow library block to modify its contents` on the Initialization Pane of the subsystem's Mask Editor.

- Repeat these steps for each other subsystem block in quest and save your Simulink library finally.

Note, that you need to set this parameter for the subsystem block that contains the RTI block. It is not necessary to set it for the RTI block itself.

Related documents

- For further information about masked subsystems and the `MaskSelfModifiable` parameter refer to the *Using Simulink* Guide.

Related FAQ

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