

DL PEL-HIL Getting Started

Create New Project

DL R&D

2025-08-05

Create a folder for the new project

 It is recommended that each project has its own separate folder, and the folder path does not contain any spaces.

Navigate the MATLAB working directory to the new project folder

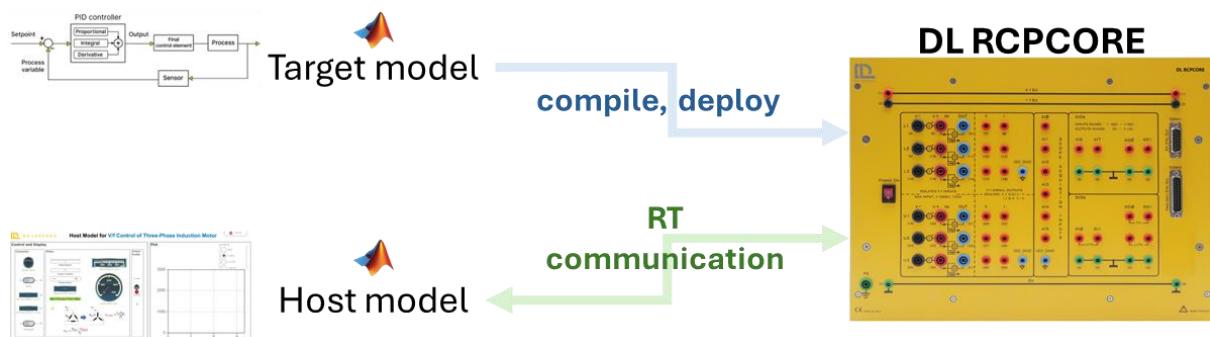
Execute the CreateNew command in the MATLAB Command Window and enter the project name in the pop-up dialog box.

 Avoid using special characters and spaces in the project name.

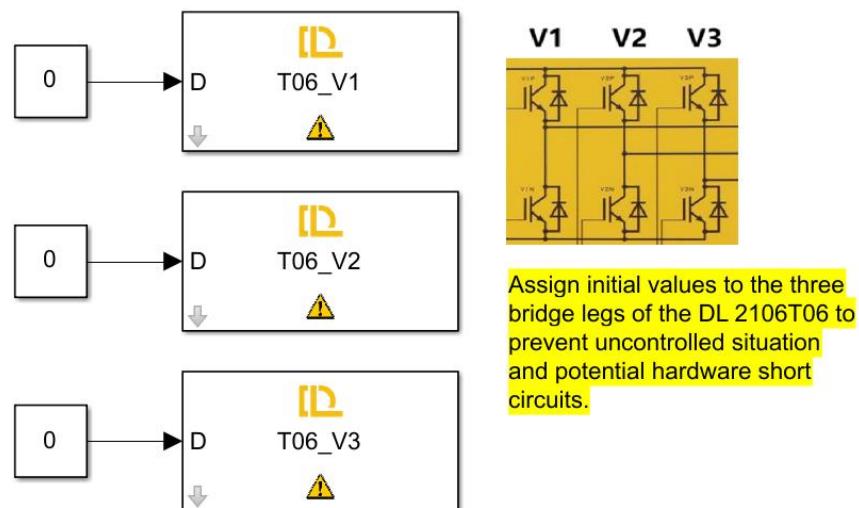
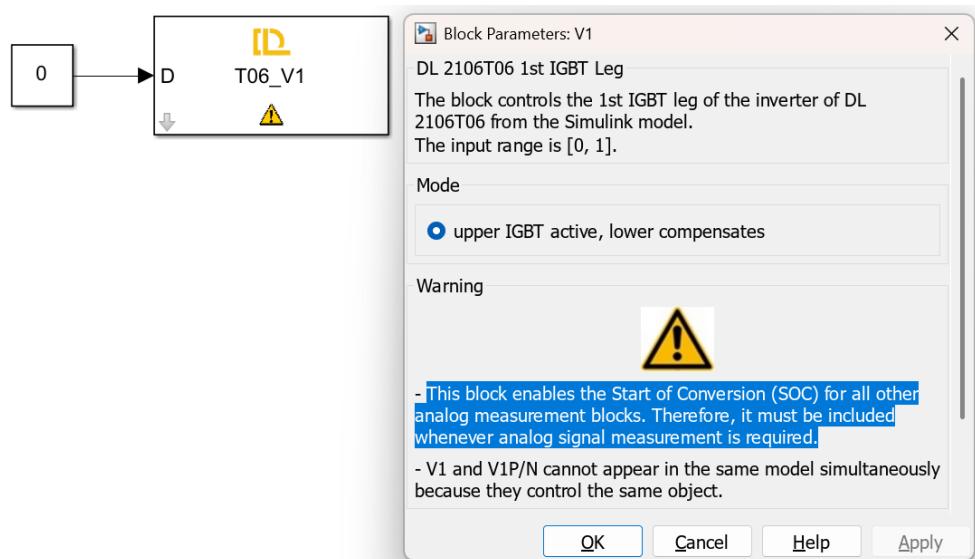
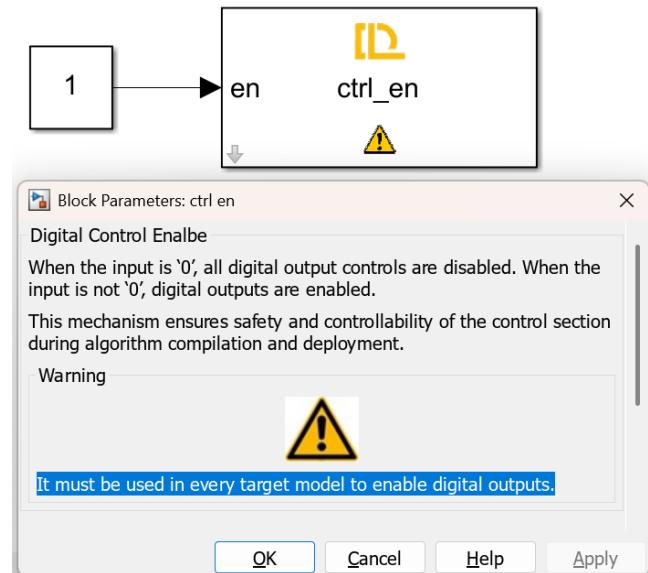
Wait until the "Busy" status in the lower-left corner of MATLAB disappears, and no warnings or errors are displayed in the Command Window.

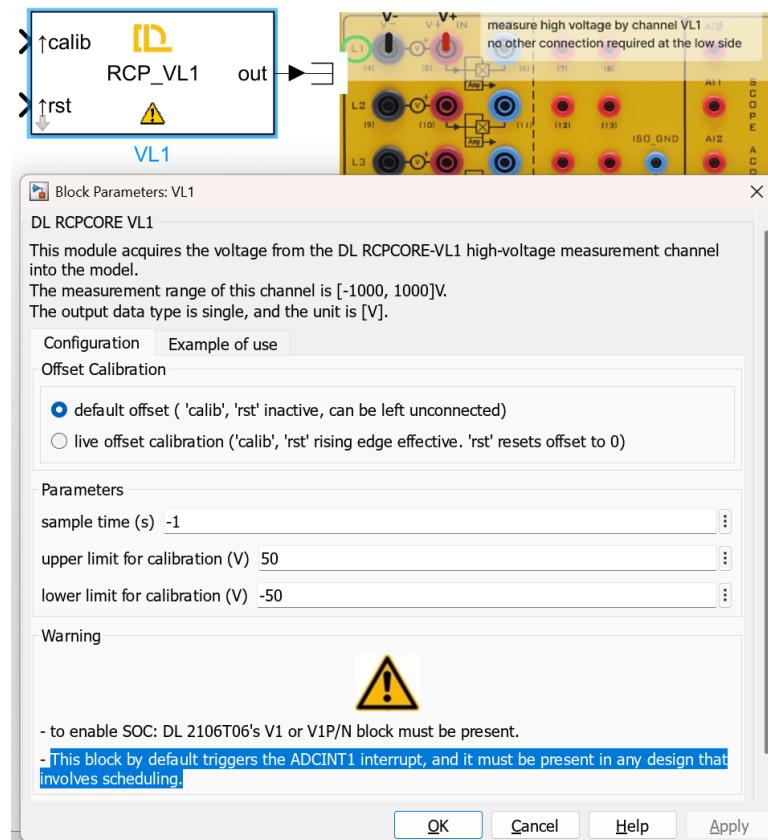
Two models are created by the system:

- **Target model:** This model will be compiled, deployed, and executed on the DL RCPCORE hardware. Its primary responsibility is to execute control algorithms and support real-time communication with the host model.
- **Host model:** This model runs on the PC in simulation mode. Its role is to debug parameters in the target model and display specific signals.



In the **target model**, the essential blocks have been added. Examine the highlighted parts to understand their roles in the entire model.





In the **host model**, the Host Serial Setup block has been added to configure real-time communication with the **target model**.

