**GOcontroll Moduline IV toolchain setup**

To compile the Linux bases blockset for GOcontroll Moduline IV, some initial steps needs to be made.

* The template project is created in Matlab Simulink R2018b. This is the tested version so it is strongly recommended to use this version of Matlab.
* To generate code, you have to install some additional toolboxes to Matlab. This could require some extra licensing. Check <https://openmbd.com/getting-started/installation/> for the toolboxes that need to be installed. Ignore the version information on this website.
* Finally you need to add the right compiler to you system. For Windows this is: gcc-arm-9.2-2019.12-mingw-w64-i686-aarch64-none-linux-gnu.   
  For Linux Host systems it is: aarch64-none-linux-gnu.
* The website where this compiler can be found is: <https://developer.arm.com/tools-and-software/open-source-software/developer-tools/gnu-toolchain/gnu-a/downloads>. Once downloaded, extract it and add a system environment variable to point to the bin directory of the compiler. For Windows for example: C:\Program Files (x86)\gcc-arm-9.2-2019.12-mingw-w64-i686-aarch64-none-linux-gnu\bin.  
  On Linux ~/.bashrc must be appended with the line: export PATH=/your/compiler/bin:$PATH.   
  Reboot may be necessary to ‘activate’ this environment variable. On Linux one can run: source ~/.bashrc to update the path, or reboot.  
  (tested on ubuntu 20.04)

Just to mention, be sure to open the .slx (template project) from within your Matlab environment. You need to see the .slx file in the ‘current folder’ tree otherwise the path references are incorrect. Once the Simulink template project is opened, you see the blinker program. When the compiler is available, you should be able to build this project successful.

**This blockset with template project is not finalized yet. There are some small improvements we need to do and the license headers needs to be updated. Please let us know when interface blocks are not working properly. You can contact us by** [**support@gocontroll.com**](mailto:support@gocontroll.com)