Output Window

straton user guide – Rev. 2

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CP_R31_006_H

straton

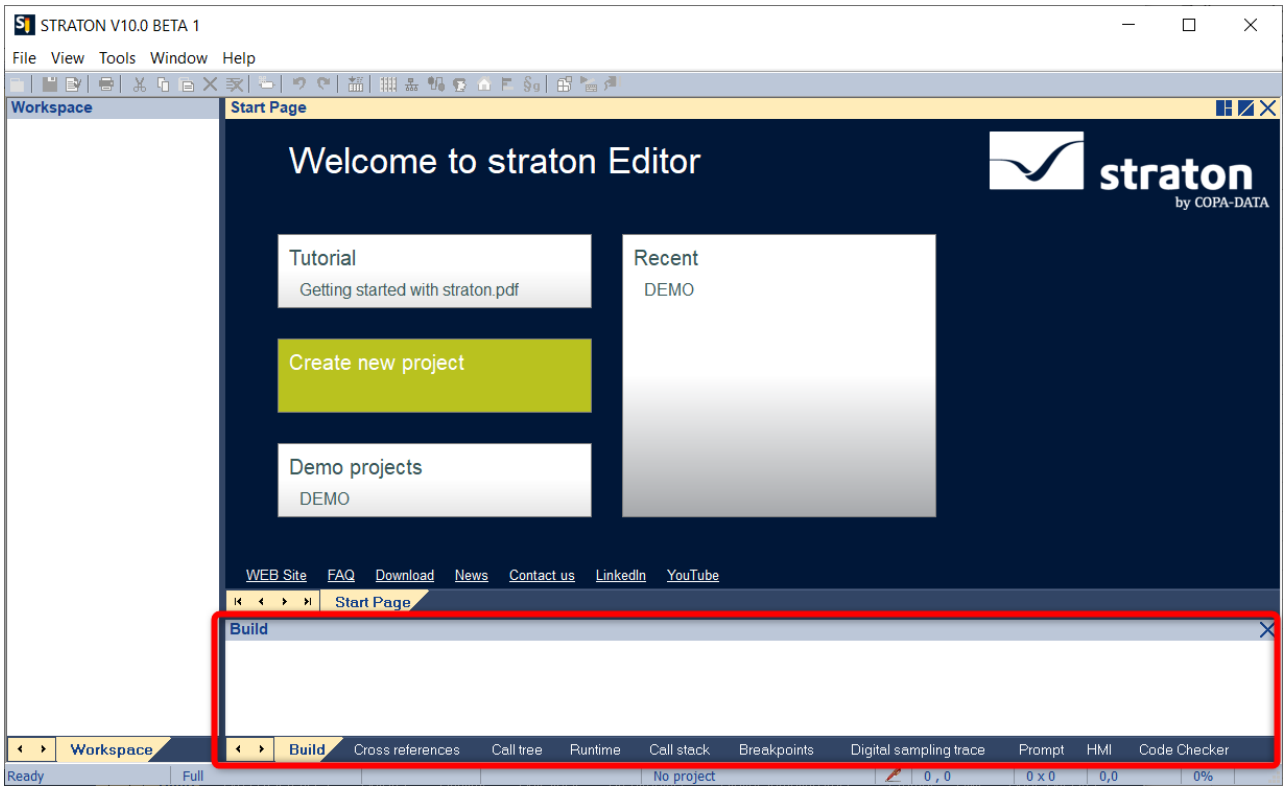
Content

1. Overview

This document describes how to use Output window with straton Editor.

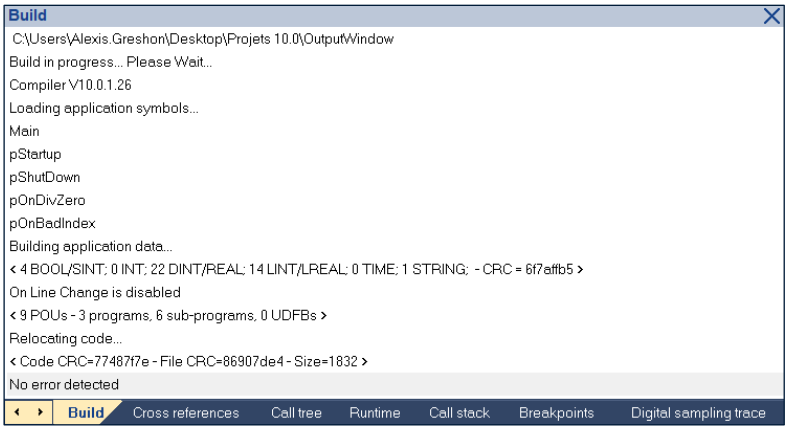
1.1. straton output window

The output window presents the most important diagnostic tools of straton Editor.



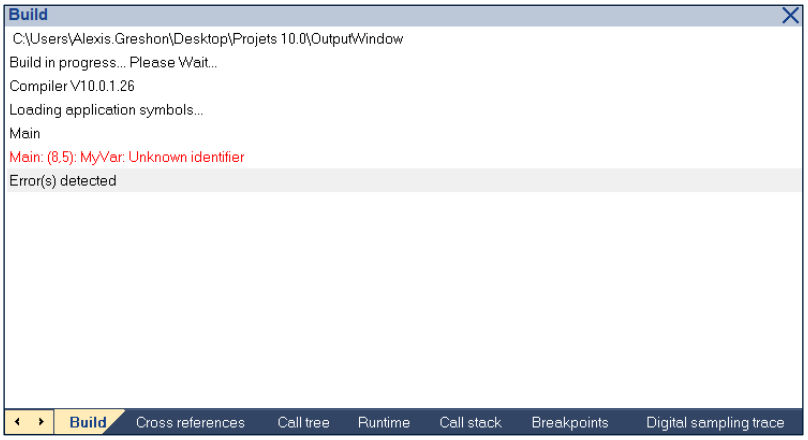
2. Tutorial

2.1. Build



(Build tab)

The Build tab content informs the user of all programs built by the compiler and also several information about the project, the straton version number, the number of variables declared in the project, the number of programs created in the project and it also displays the errors and the warnings in a project:



(e.g.: a variable not declared in straton but used in a program)

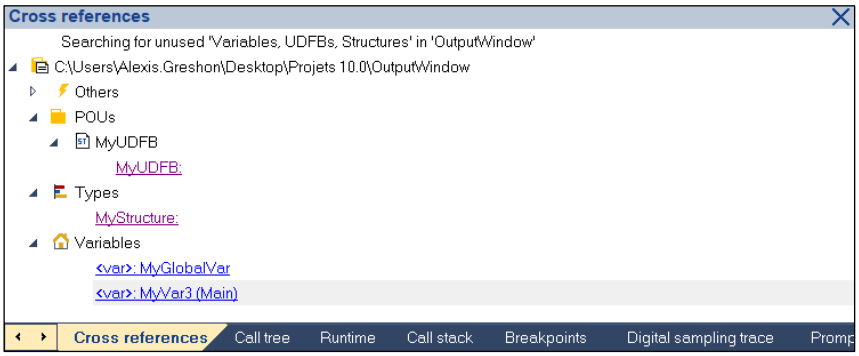
2.2. Cross references

The Cross references tools enable you searching items in the whole project.

This is a list of possible uses of the Cross references tool:

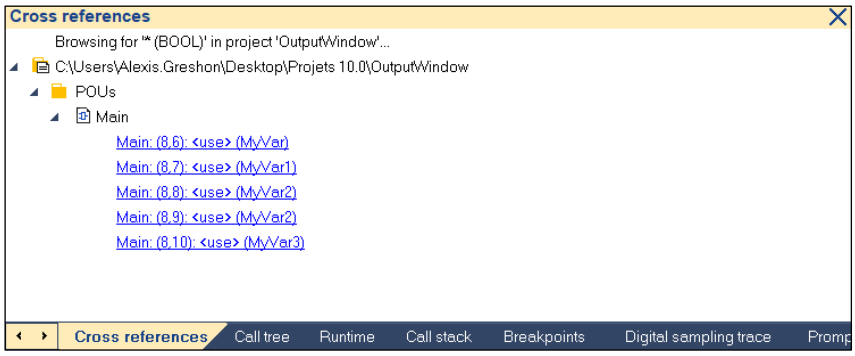
LIST UNUSED ITEMS:

Use the Edit -> Find -> List Unused Items... -> Select the items you want to list ... menu command in order to display the list of items that are not used in the programs of the application. You can click on an item to open it. This command is particularly useful when cleaning a project.



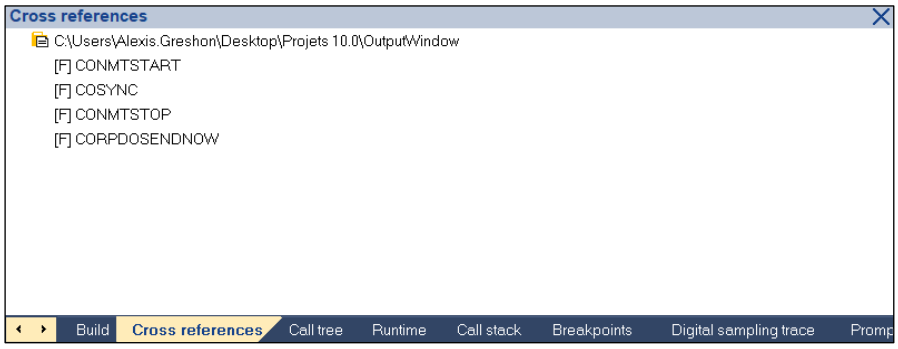
FIND VARIABLES:

Use the right click in the cross references output -> Find Variables... in order to find a variable in the project. You can search by the name or by type of the variable you are looking for. You can click on an occurrence to open the program where the variable is used.



LIBRARY ELEMENTS:

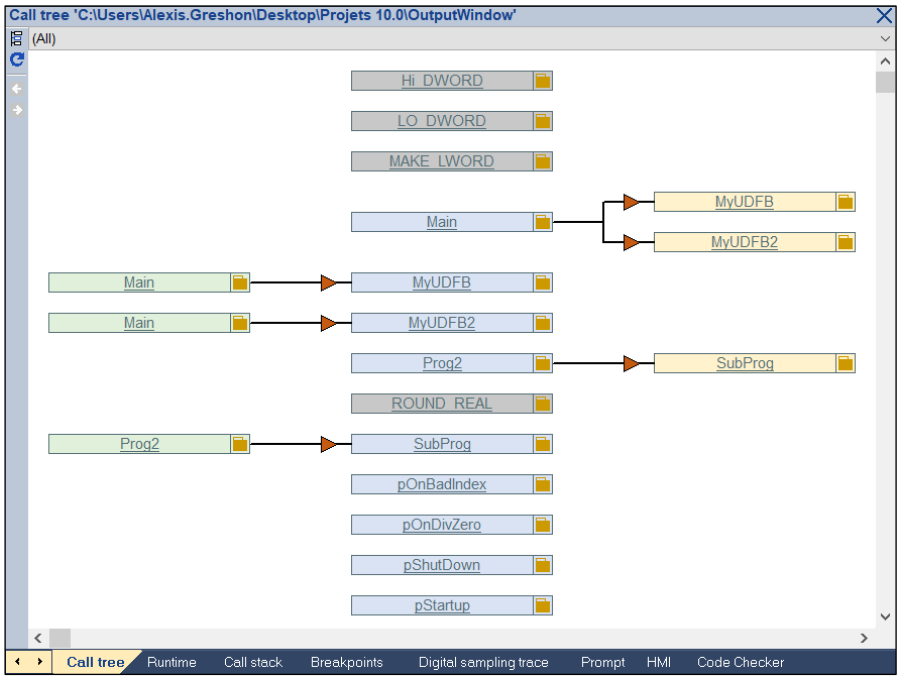
Use the Edit -> Find -> Library Elements menu command to list the I/O devices, functions and function blocks written in "C" that are used in your application.



2.3. Call Tree

The Call Tree view allows to see which program is calling other programs.

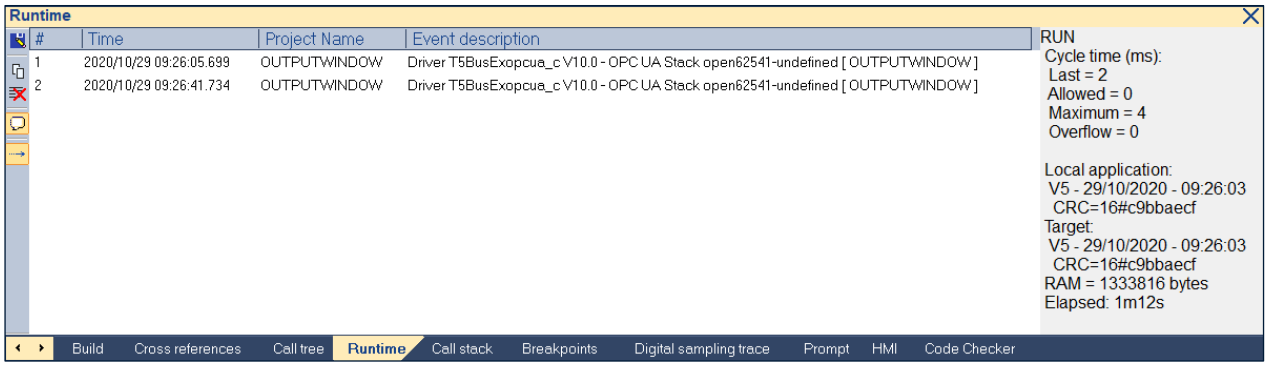
In order to see the tree, open the Call Tree from the Output window then click on "Call Tree" button:



(A tree of a project with UDFBs and Sub-Programs which are called by other programs)

2.4. Runtime

The Runtime tab of the output window shows Runtime information when online connected to a target system.



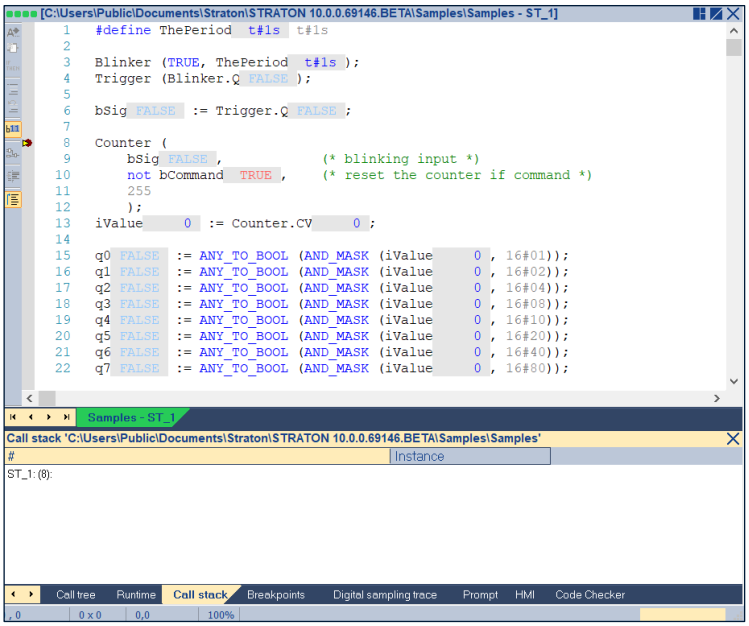
 : If the checkbox "Show RT information" is activated, the information from the runtime will be shown in the output window.

- Some other information is available like the Cycle time of the application on the right side of the output window.

NOTE: the "Maximum" cycle time reached by the application as well as the number of cycle-time "Overflow" is reset if the cycle-time is changed while the application is running.

2.5. Call Stack

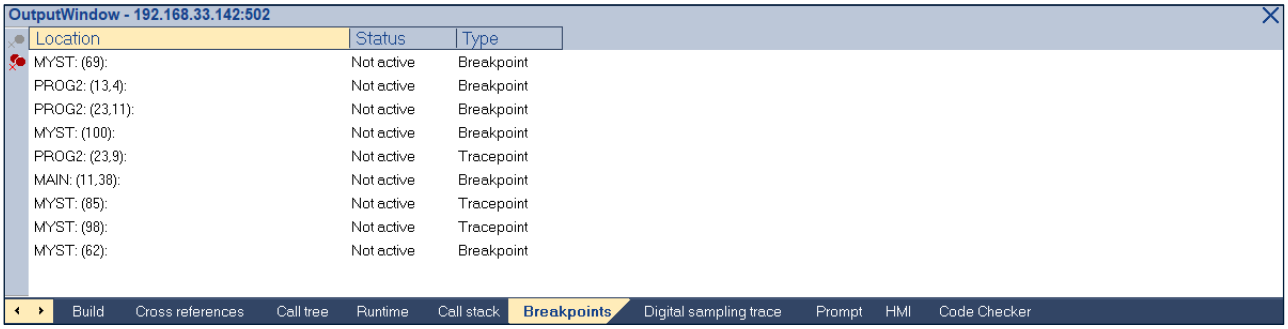
When you are in debugging mode, the **Call Stack** view allows to see where the program has been stopped on a breakpoint.



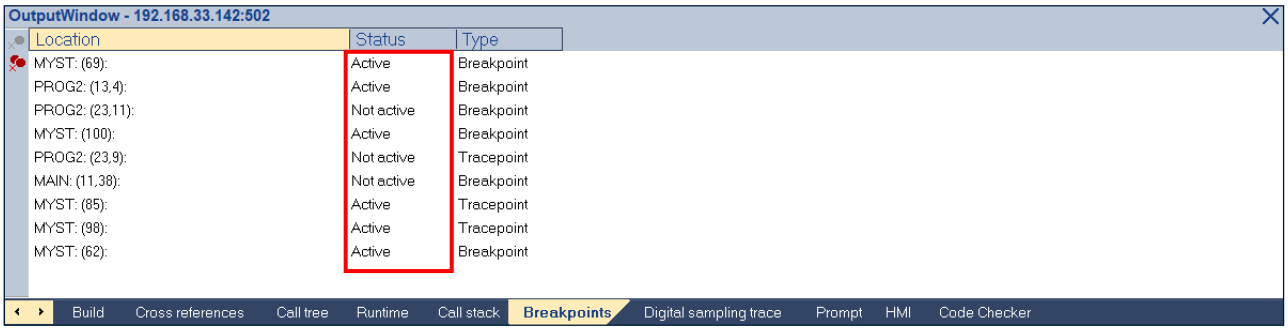
If you double-click on an instance straton will opens where the program stopped.

2.6. Breakpoints

Breakpoints tab displays an overview of all **breakpoints** or **tracepoints** set in the project.



When you are in debugging mode or online, the status of a breakpoint / tracepoint can be visible (Active or Not active) in the breakpoints tab.



You can double click on a breakpoint / tracepoint to open it in the project.

There is also the possibility to remove one or several breakpoint directly from the breakpoint tab.

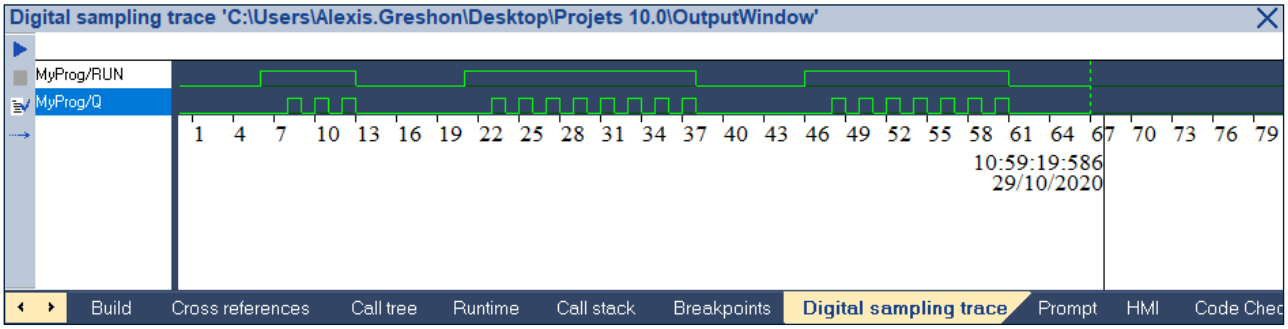
2.7. Digital sampling trace

The runtime system includes a digital sampling trace recorder. The recorder is used to register periodically the state of up to 8 Boolean variables. Samples can be registered either on each cycle or according to a configurable period. The digital sampling trace is a useful tool for tracking Boolean events in the runtime application.

SETTINGS:

Before starting a recording, you need to setup the parameters for the recorder in the Setup Sampling dialog. This includes the list of spied variables, a period, start and stop conditions.

Press the Set button to validate the settings.

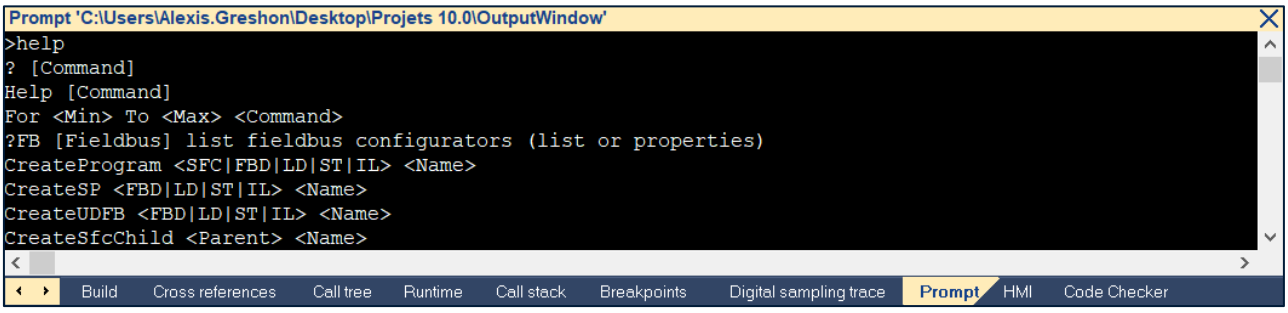


(eg : Trace the Boolean variables of a PLS block)

2.8. Prompt

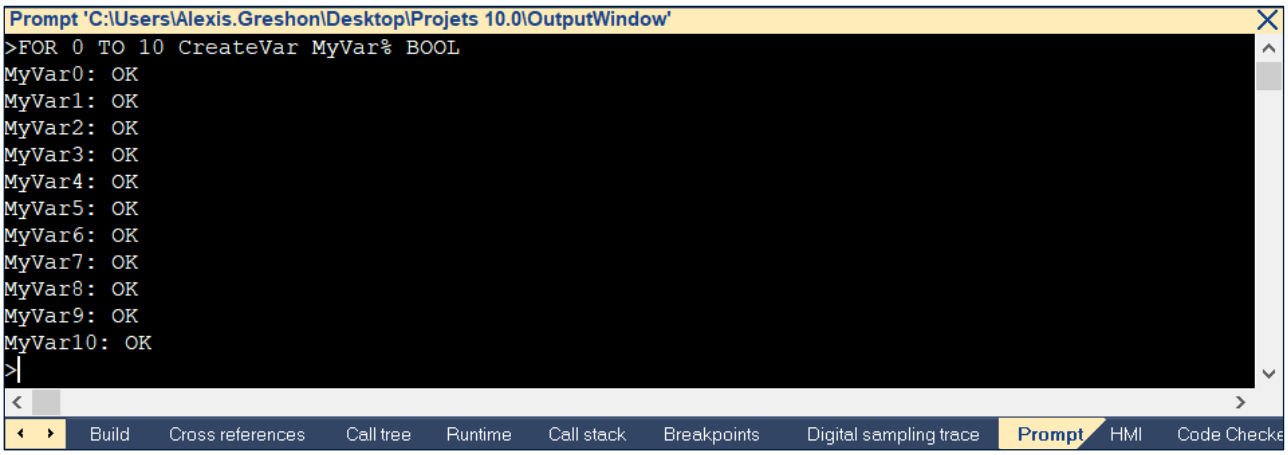
straton Editor includes a powerful console where you can run some operations in command line text mode instead of using menus.

Open the Prompt tab, then enter the command "?" to get the list of available command and their syntax.



EXAMPLE WITH CREATION OF 10 BOOLEAN VARIABLES:

Enter the command: "`For 0 To 10 CreateVar MyVar% BOOL`"



The 10 boolean variables have been declared in straton's Dictionnary.

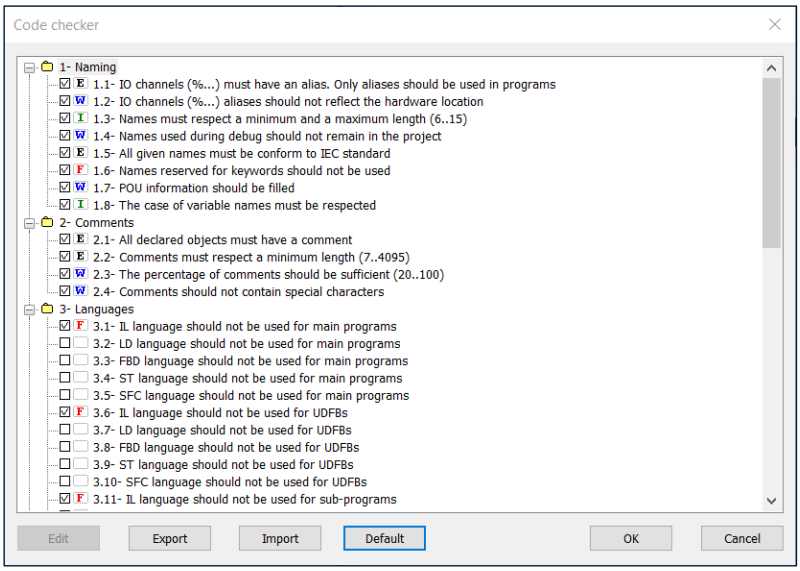
2.9. HMI

The HMI tab is OEM specific.

2.10. Code Checker

The code checker tool allows the user to define and configure rules for his project.

- Open the code checker setting dialog using this button  in order to define the code checker settings.



(Code checker settings)

In this settings, you will be able to configure your own code checker settings by checking what you want.

You can also edit the rules by clicking on the rule you want to edit -> Edit.

Once you have finish to edit the rules, you can scan your project… straton will displays all the fatal error(s), error(s), warning(s) and information(s) in the application.