Short description on how the used H3-prj is created+config'd with Harmony3 (SL, 20.7.2022)

# Prj-creation

Create new MCC-H3 project with MPLABX-v6.00 integrated MCC-v5.1.13-plugin

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Next selection to use H3-content

Graphical user interface, text, application, email

Description automatically generated

Assuming you've all required H3-repos downloaded already (->if not use the ContentManager to do so) **AND** the H3-framework path set in MPLABX-menu: tools-options-plugins-mcc/h3-path, shown here:

Graphical user interface, text, application, email

Description automatically generated

then you should see that 'all required content is available…' and you can hit 'Finish'

Graphical user interface, application, table

Description automatically generated

The path to the H3-repo should be picked up from MPLABX-settings

Graphical user interface, text, application, chat or text message

Description automatically generated

so continue with 'Next' and finally MHC3-UI should come up and look like this:

Graphical user interface, application

Description automatically generated

->now the prj-creation and H3-startup is done and you can continue to 'H3-configuration'

# H3-configuration

Add STDIO '=printf()' and connect SERCOM3 (as onboard-EDBG-uart2usb bridge is connected to SERCOM3).

Configure SystemTick in 'system' as shown (to get a 250ms tickrate) and leave rest=default

Graphical user interface, application

Description automatically generated

Next assign the Pins as shown below

Graphical user interface, application, table

Description automatically generated

!!don't forget the PullUp on the SW0-button, otherwise 'if (SW0=pressed)' is true right away, without even pressing the SW0!!

And finally GenerateCode

Graphical user interface, application, table

Description automatically generated

# Application-code

Last create application code to do this:

* On sysTick-Wrap
  + toggleLED
  + and increment 'myCnt'
* if
  + '0<=myCnt<=5' print char 'a'
  + '5< myCnt<=10' print char 'b' && reset 'myCnt=0'
* if (SW0=pressed)
  + call 'testEnd()'
* testend() {
  + print final value of 'myCnt' and loop in while(1)

-> see 'CICDgh\_samd21xplp\CICDgh\_samd21xplp\firmware\src\main.c'

# #eof