**Unit Test Guider**

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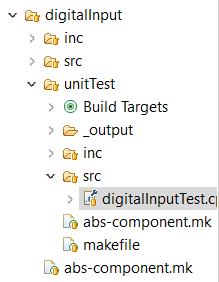
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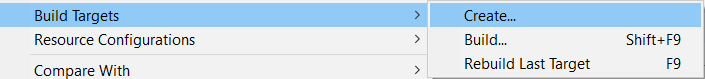
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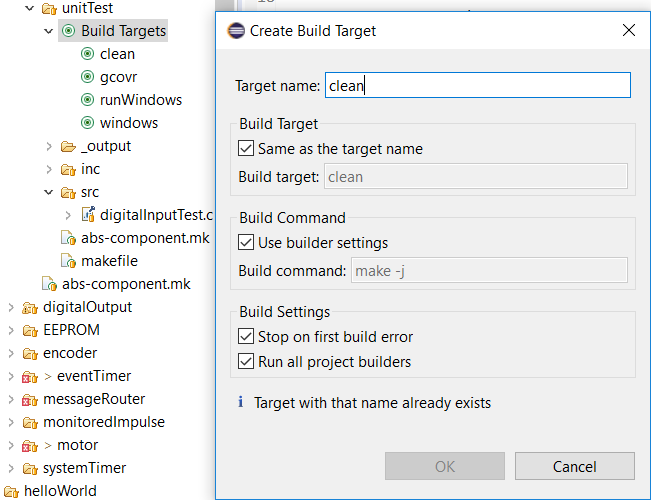
1. On Host.

## Create digital output folder for project.



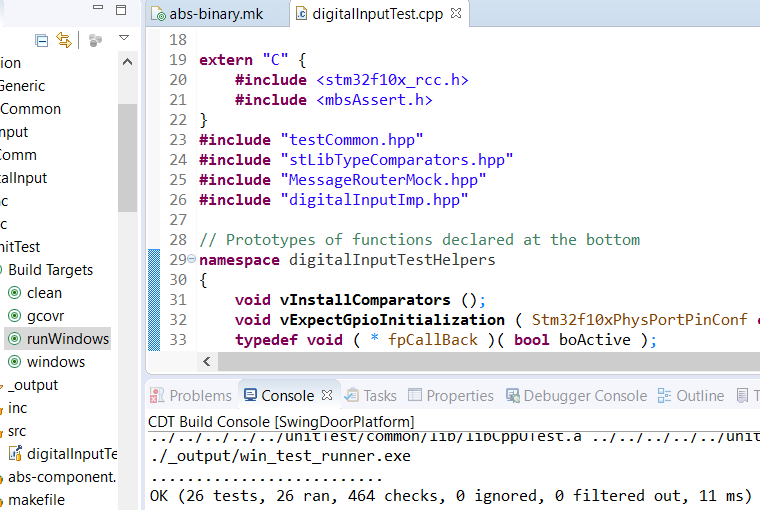
## Create Build Targets option. Right click ‘’unitTest’ folder,





Add new targets: clean, gcovr, runWindows, windows.

## **Write** unit test code. click runWindows,



## **Debug**--Configurate Debug/Run Option for digitalOutput. (Run->Configurations.)(Option)

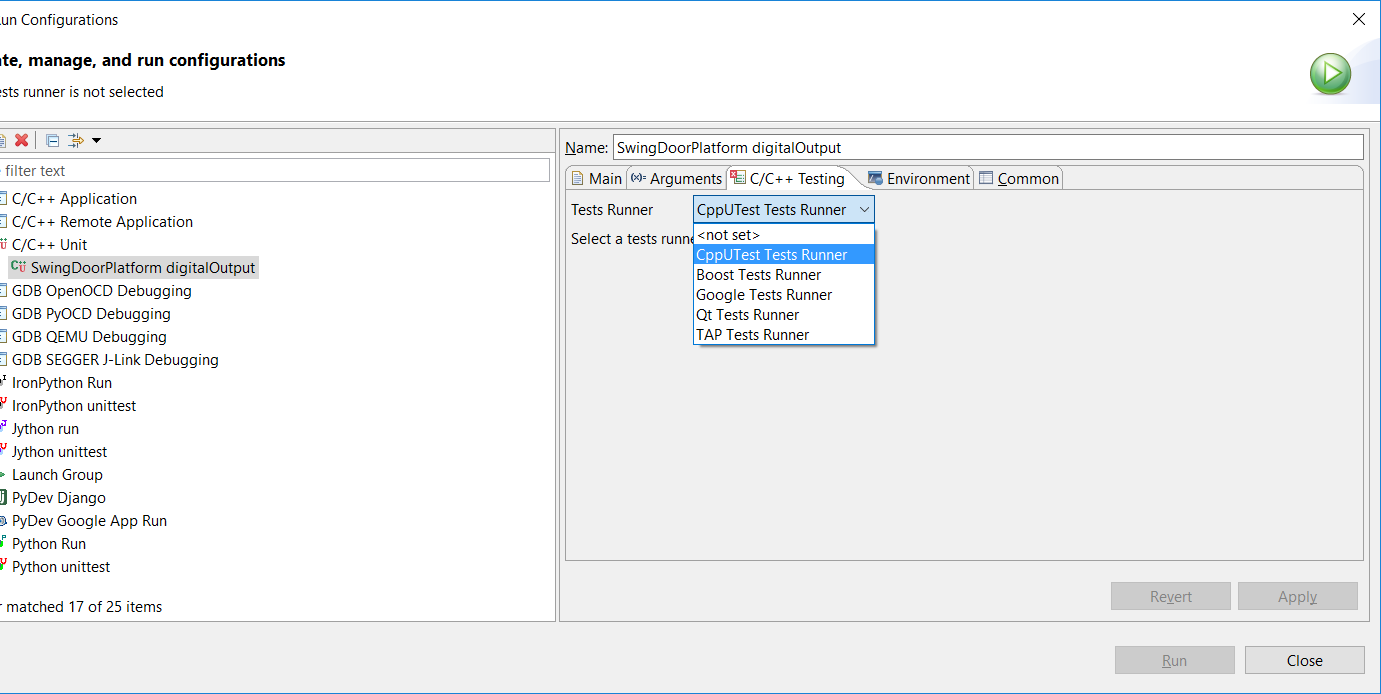
Name : SwingDoorPlatform digitalOutput

Add **C/C++ Unit item**

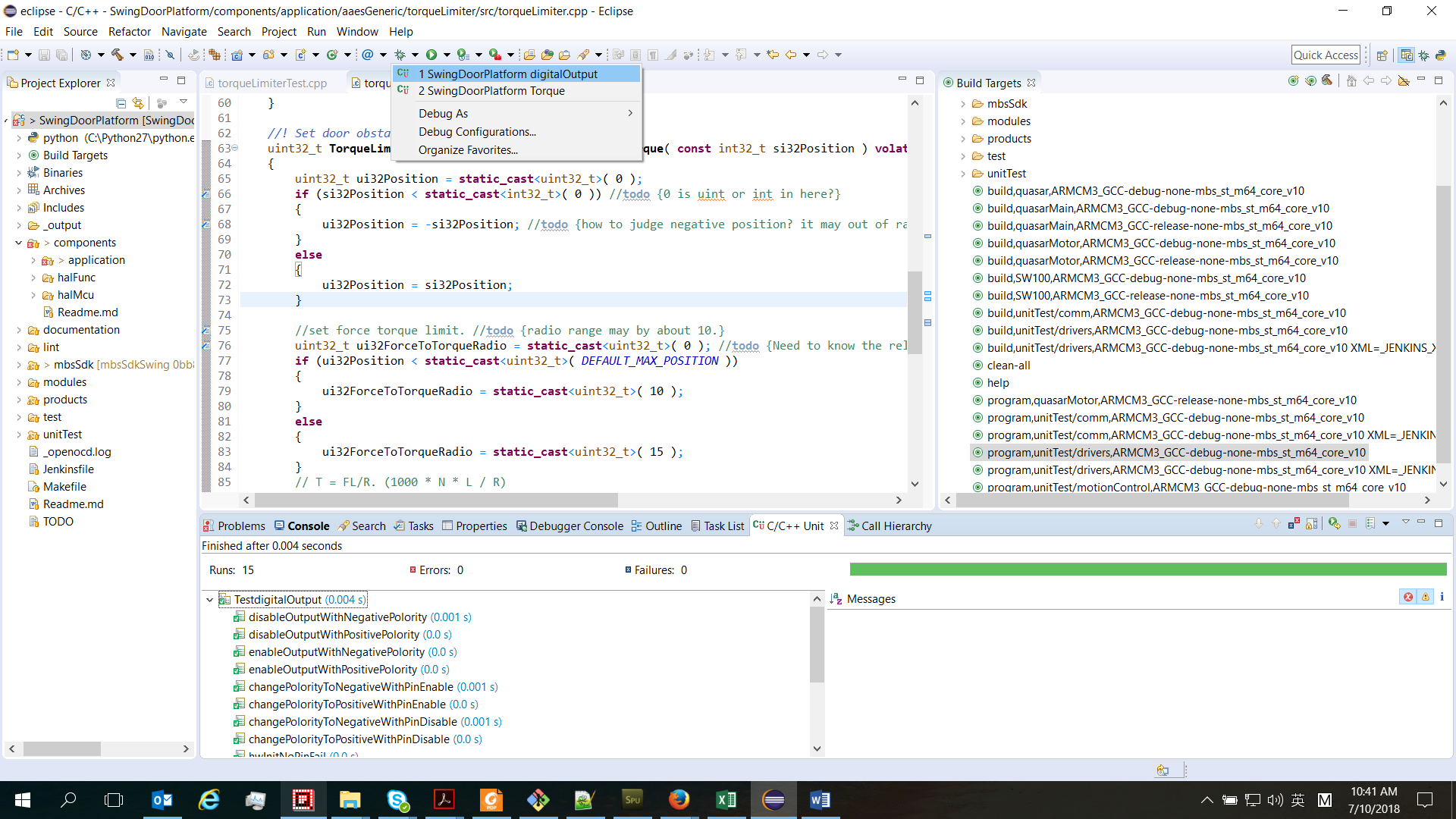
-> **Main** : C:\mbs\SwingDoorPlatform\components\application

\aaesGeneric\digitalOutput\unitTest\\_output\win\_test\_runner.exe

->**C/C++ Testing** : CppUTest Tests Runner.

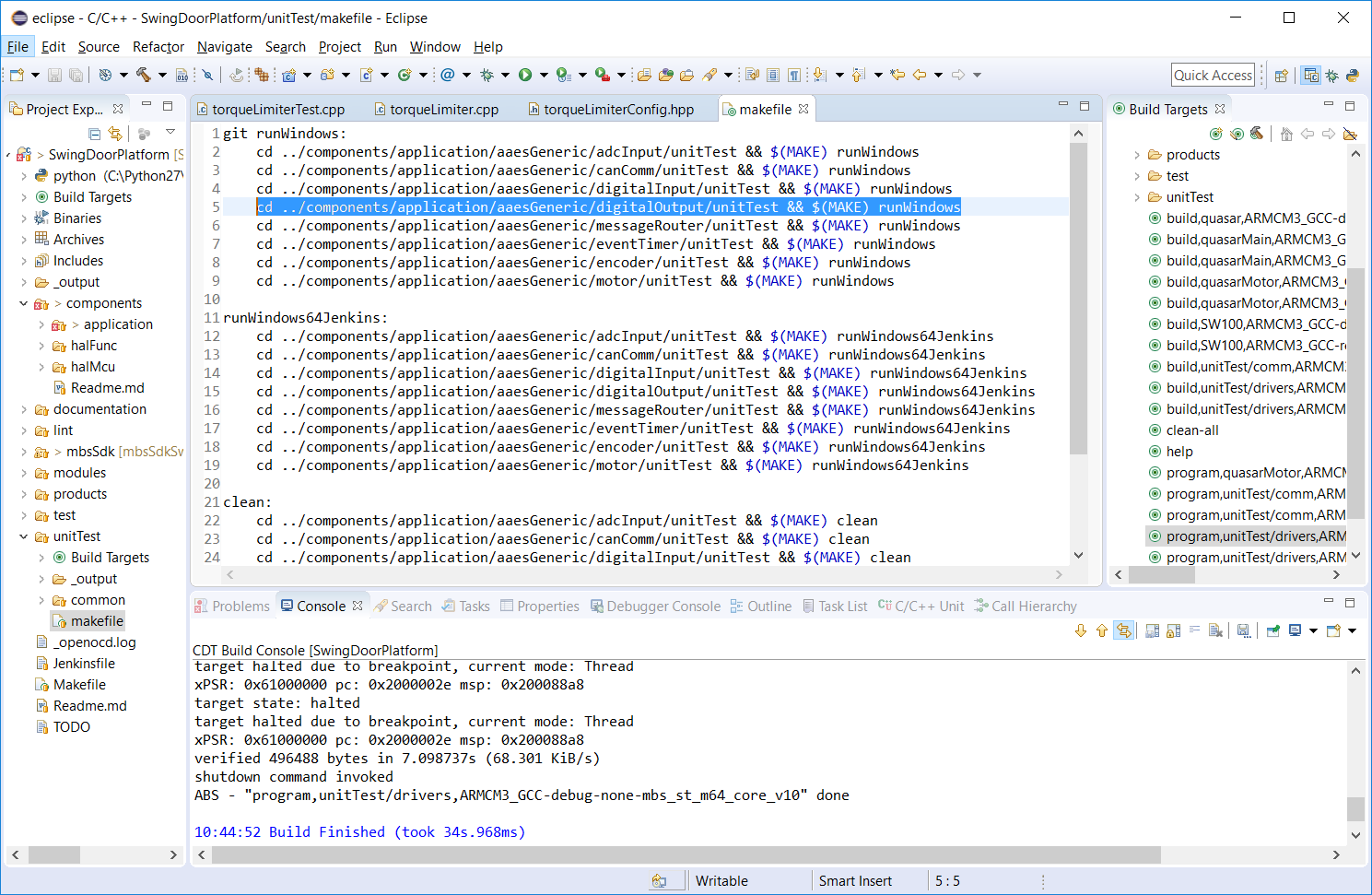


## **Debug** --Refresh and Run test. (Option)



In this setting, you can set breakpoints for unit test debugging.

## --Project Unit Test – makefile. (Option)



cd ../components/application/aaesGeneric/digitalOutput/unitTest && $(MAKE) runWindows (runWindows64Jenkins, clean)

C:\mbs\SwingDoorPlatform\components\application\swingDoorGeneric\torqueLimiter\

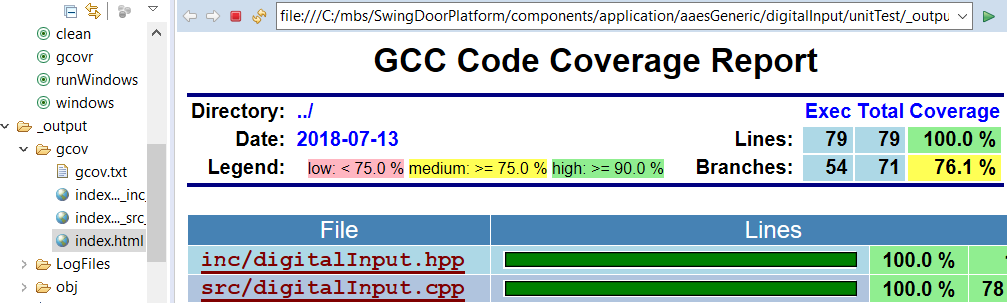
**include** mbsSdk/tools/ABS/abs.mk

make –j help :: /SwingDoorPlatform/mbsSdk/tools/ABS/abs.mk

ABS - making product "products/unitTest/drivers", configuration:

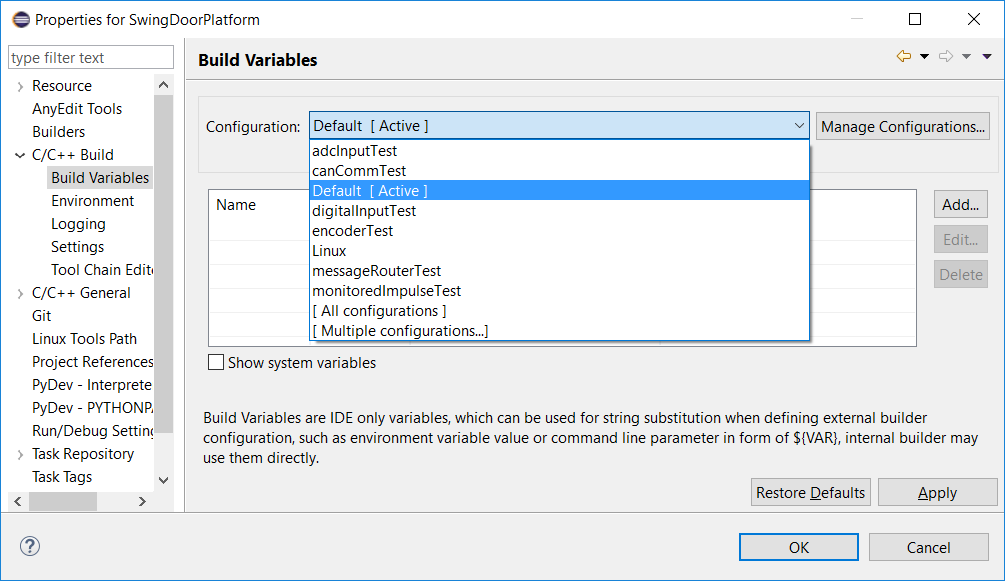
\_output/products-unitTest-drivers/ARMCM3\_GCC-debug-none-mbs\_st\_m64\_core\_v10/products-unitTest-drivers.elf\_cache

## Click gcovr, check cover range.

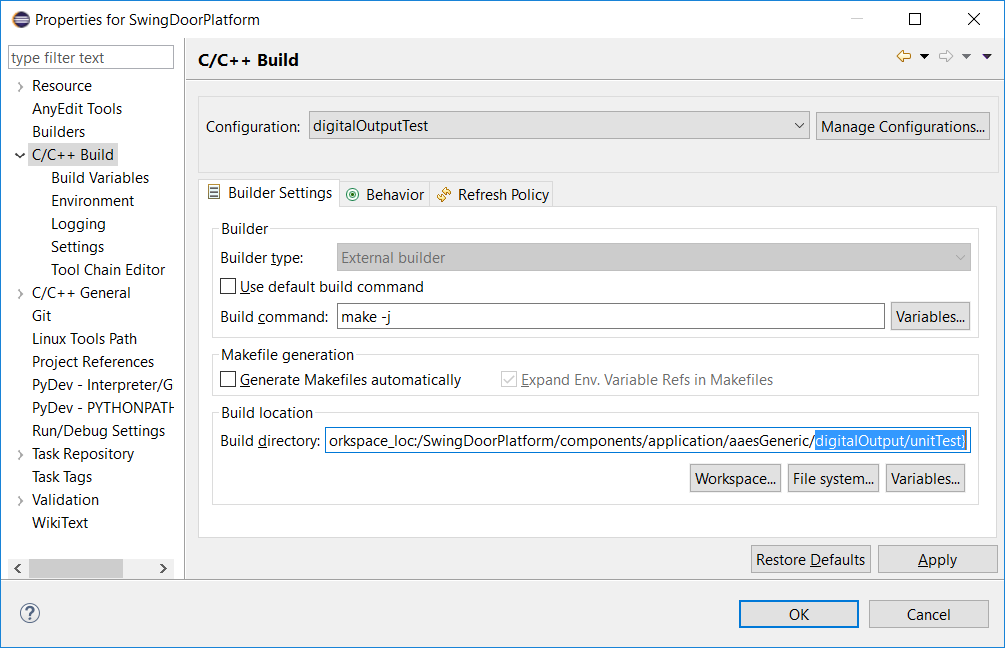


1. On Target.

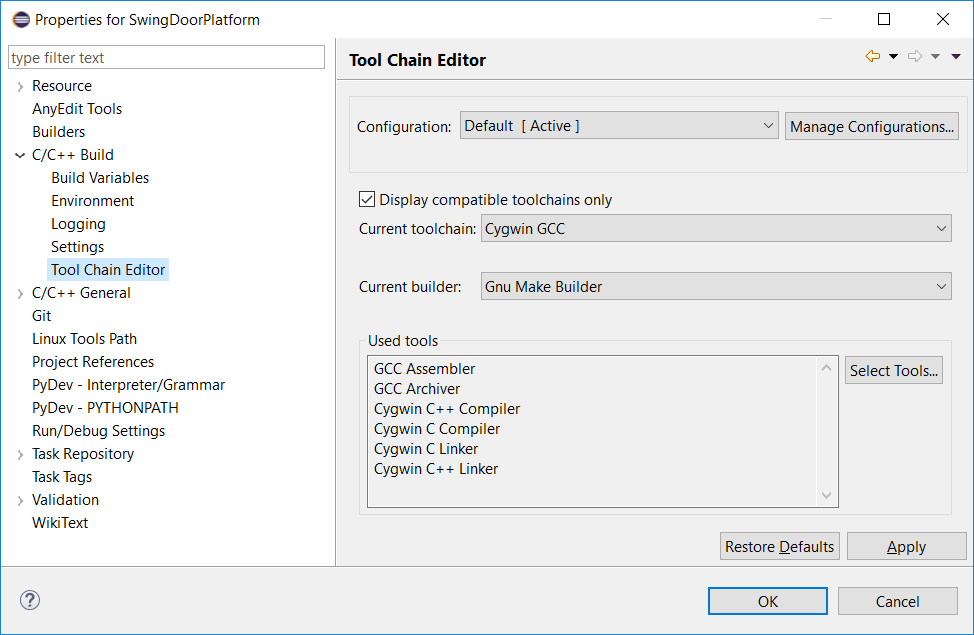
## Configurations->new…copy.) Property for project.



## Option Add digitalOutput. (Copy digitalInput option, then change path.)

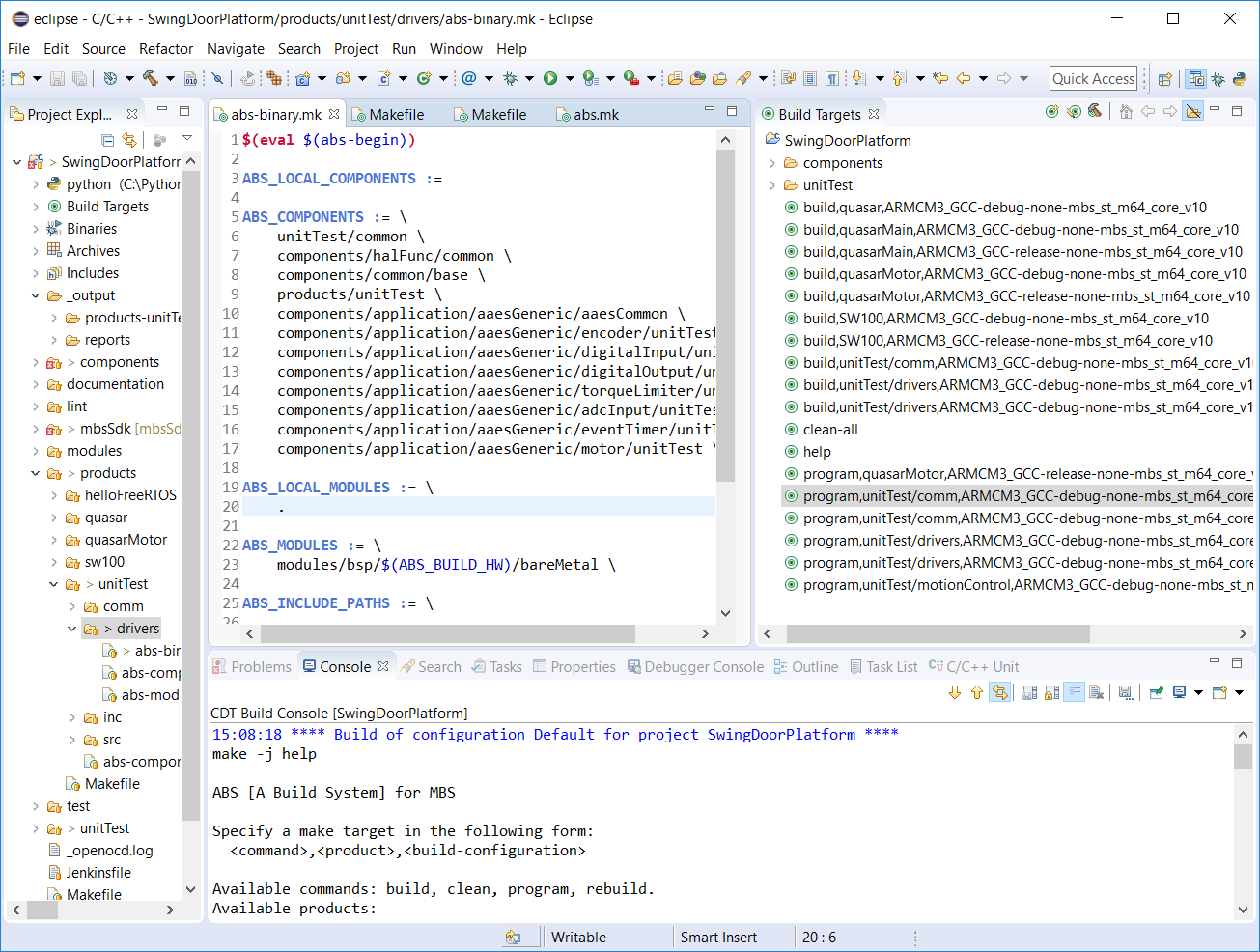


Check compiler toolchain setting.



## Run on target config: **abs-binary.mk**. （products/）

/SwingDoorPlatform/**products/unitTest/drivers/abs-binary.mk**



For unitTest/drivers/.. folder, it has built option “program,unitTest/drivers, …”. Add new component in abs-binary.mk file.

/c/mbs/SwingDoorPlatform/products/unitTest/drivers/abs-binary.mk

## Run on target. Unit (**Uart 9600**, 8, none, 1, none.)

Connect board and uart comm, program, and test.

