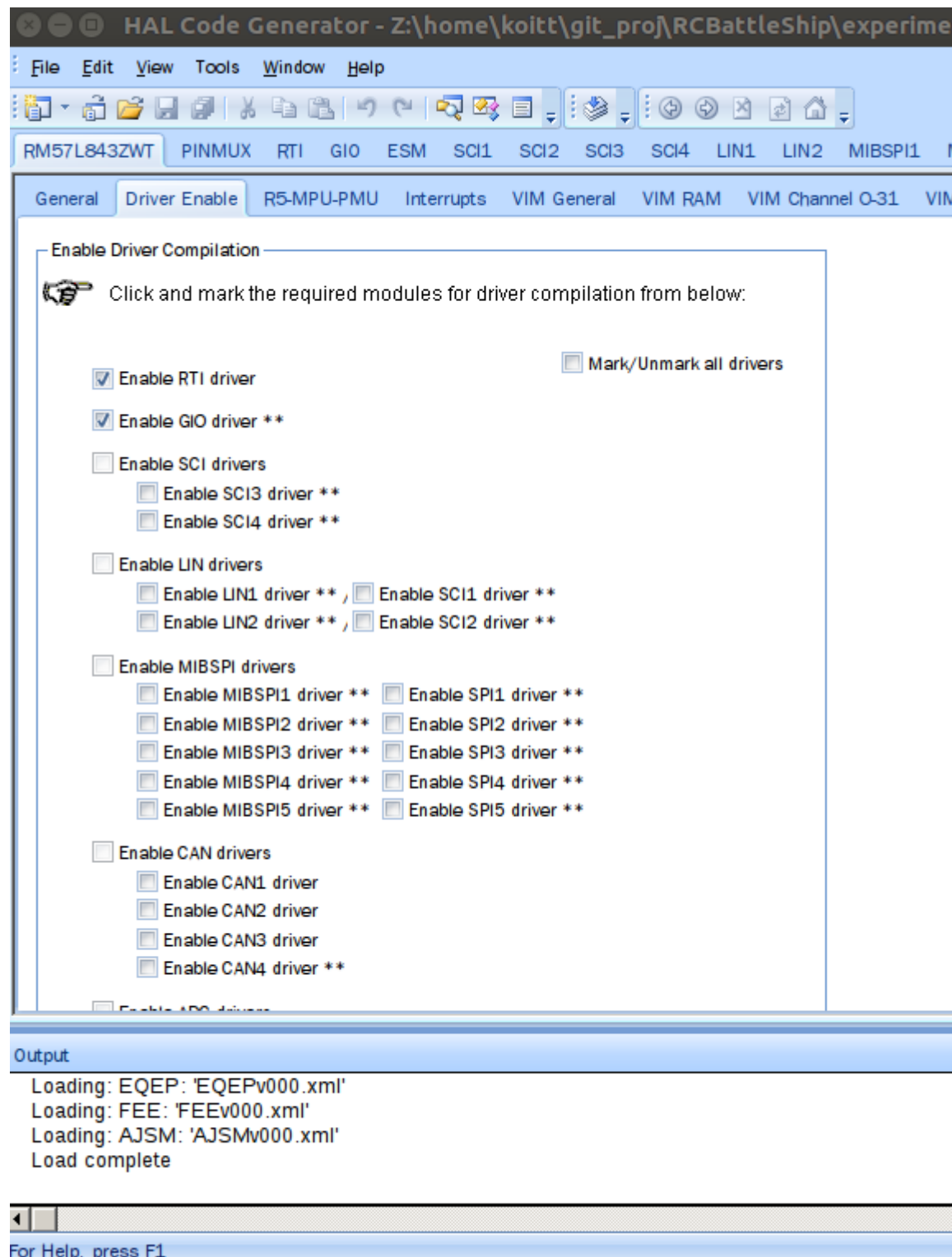


GPIO (오픈드레인 실습)를 활용하기

먼저 halcogen 설정을 해보자.

1. Enable RTI driver, Enable GIO driver 를 체크한다.



2. RTI1 Compare 에서 Compare 0 Period 를 1000으로 맞춰준다
(1초에 한번씩 깜빡거리게하는걸로 설정을 해보자.)

HAL Code Generator - Z:\home\koitt\git_proj\RCBattleShip\experiment\mcu\

File Edit View Tools Window Help

RM57L843ZWT PINMUX RTI GIO ESM SCI1 SCI2 SCI3 SCI4 LIN1 LIN2 MIBSPI1 MIBSPI2

RTI1 General RTI1 Counter 0 RTI1 Counter 1 RTI1 Compare

RTI1 Compare

Compare 0 Period: 1000 Update Compare 0: 9375000
Compare 0: 9375000

Comp 0 Source:
Counter 0:
Counter 1:
10.000000000
9.375000000

Actual Period (ms): 1000.000

Compare 1 Period: 5.000
5.000 Update Compare 1: 50000
Compare 1: 46875
46875

Comp 1 Source:
Counter 0:
Counter 1:
10.000000000
9.375000000

Actual Period (ms): 5.000
5.000

Compare 2 Period: 8.000
8.000 Update Compare 2: 80000
Compare 2: 75000
75000

Comp 2 Source:
Counter 0:
Counter 1:
10.000000000
9.375000000

Actual Period (ms): 8.000
8.000

Compare 3 Period: 10.000
10.000 Update Compare 2: 100000
Compare 2: 93750
93750

Counter 0:
Counter 1:
10.000000000

Actual Period (ms): 10.000

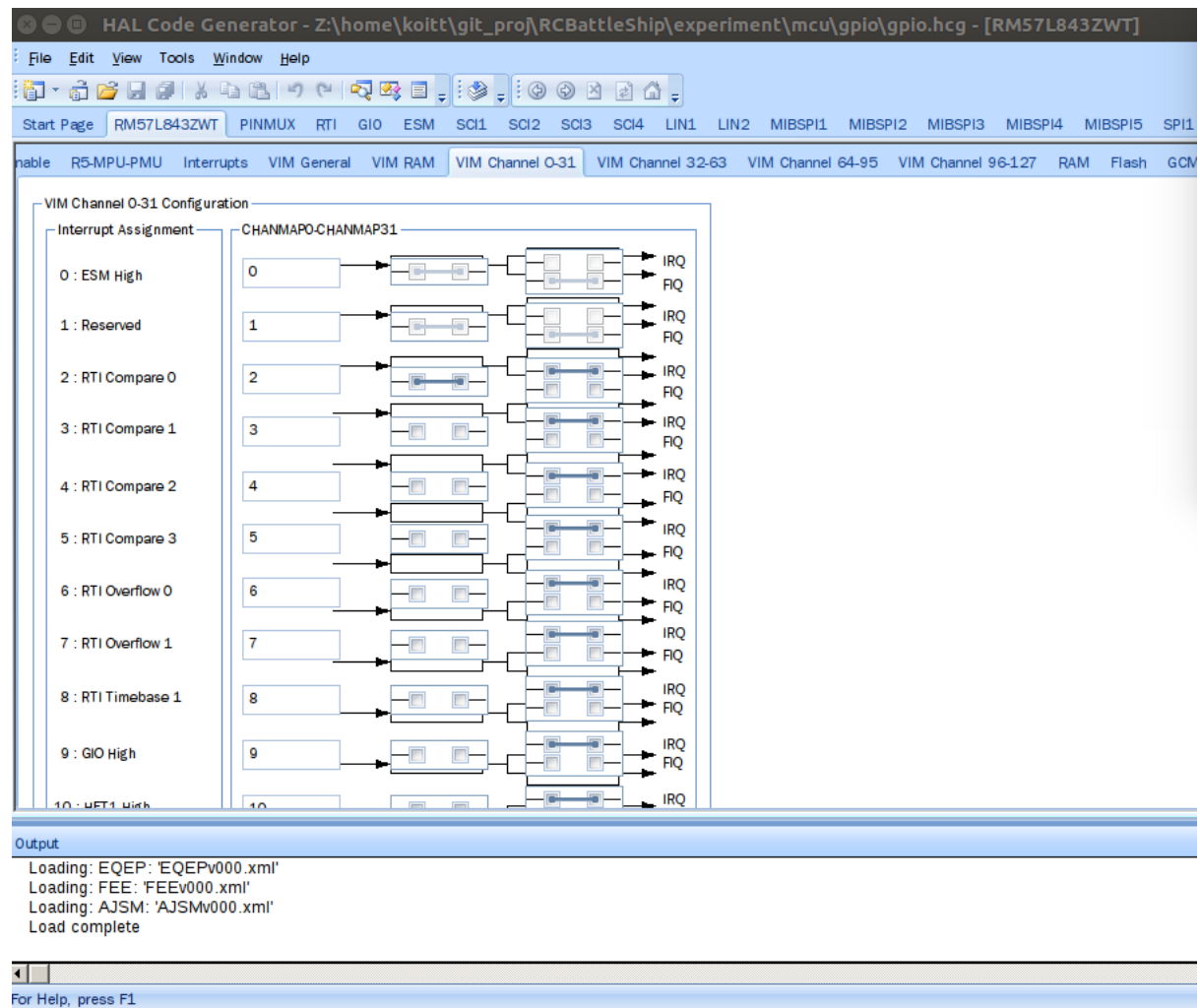
Interrupt/DMA

Output

Loading: EQEP: 'EQEPv000.xml'
Loading: FEE: 'FEEv000.xml'
Loading: AJSM: 'AJSMv000.xml'
Load complete

For Help, press F1

3. RTI Compare 0을 사용하기 때문에 CHANMAP0-CHANMAP31에서 RTI Compare 0를 체크하여 활성화 시켜준다.



4. gioA 4번핀을 사용하도록 설정을 한다. (Port A)

HAL Code Generator - Z:\home\koitt\git_pro\RCBattleShip\exper

File Edit View Tools Window Help

RM57L843ZWT PINMUX RTI **GIO** ESM SCI1 SCI2 SCI3 SCI4 LIN1 LIN2 MIBSP1

Port A Port B

VIM: Low Priority: Falling Edge:

DOUT: Q D

BiDIN: 0

High Priority: Enable Rising Edge: Falling Edge: GIOA[4]

VIM: Low Priority:

DOUT: Q D

DIN: 0

Bit 5

High Priority: Enable Rising Edge: Falling Edge: GIOA[5]

Low Priority:

Output

Loading: EQEP: 'EQEPv000.xml'

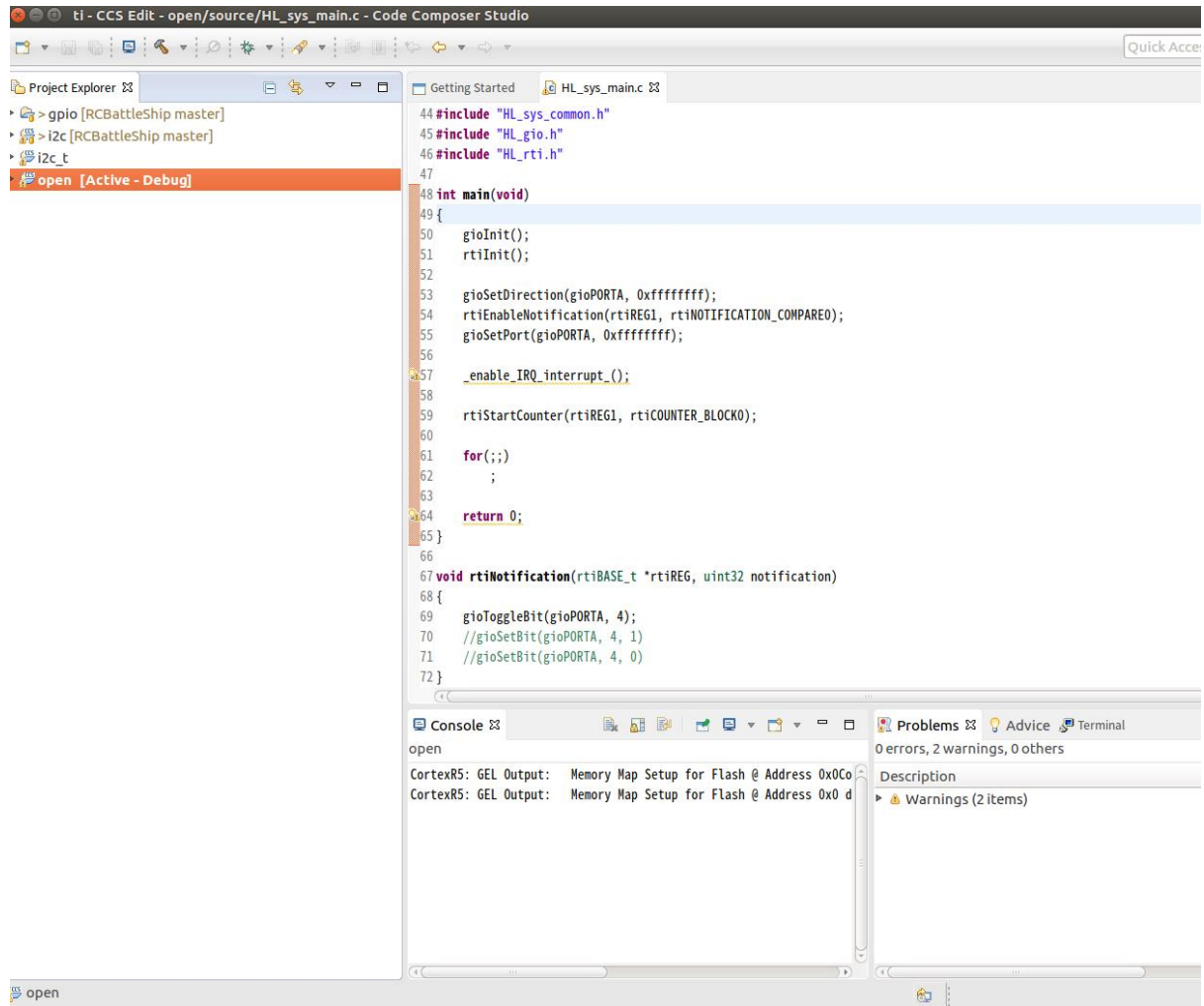
Loading: FEE: 'FEEv000.xml'

Loading: AJSM: 'AJSMv000.xml'

Load complete

For Help, press F1

5. generate code 를 누른다.
6. CCS로 이동/ main code는 git > experiment >mcu>gpio 에서 코드를 받아서 실행시킨다.
6. 망치를 누르고 에러가 뜨지 않는다면 벌레를 누른다.



7. LED가 깜박거리는 것을 확인 할수 있다.(오픈 드레인-콜렉터가 되고있는 과정)

