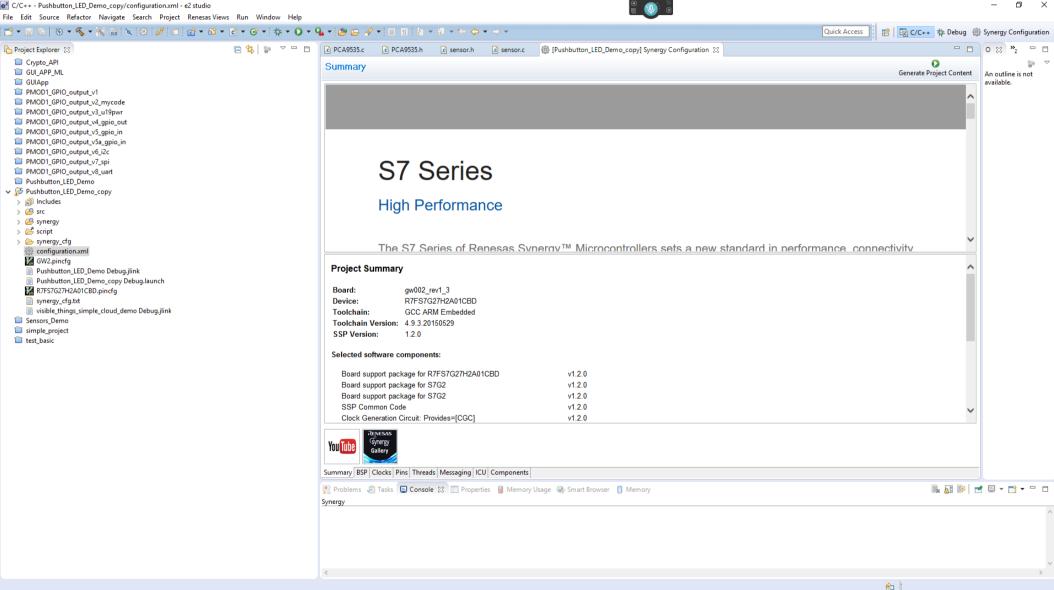
Purpose: Determine why the RTOS version of the GPIO example is hard to build

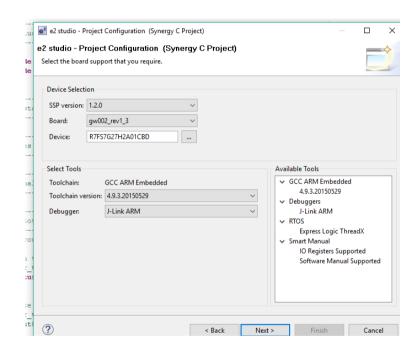
By Michael Li 03/28/2018

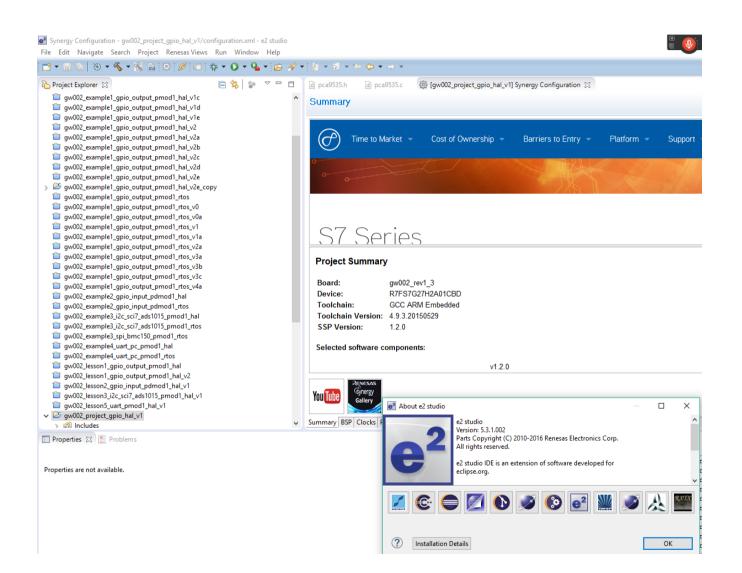
## Demo Project Setting

(GPIO examples will follow this setting.)

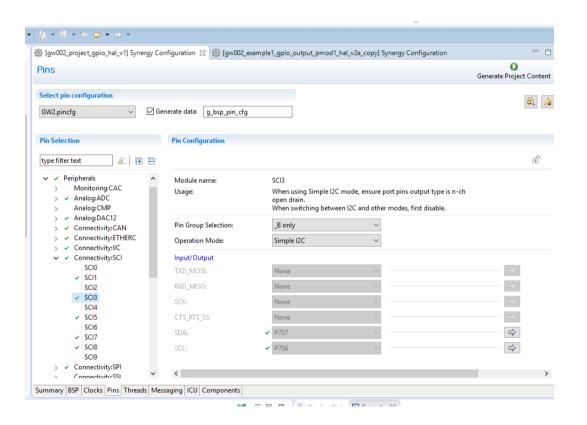


# HAL

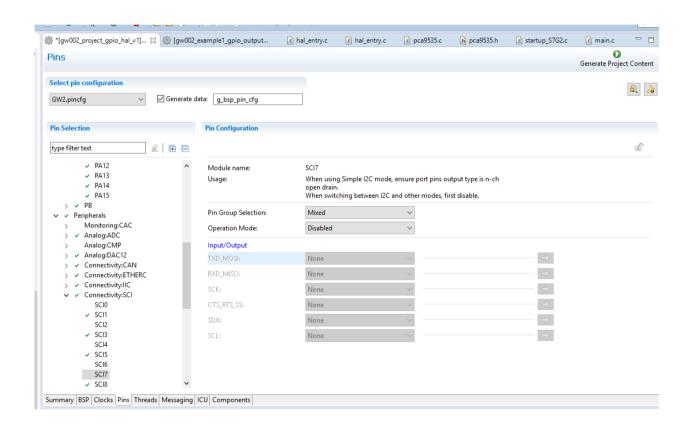




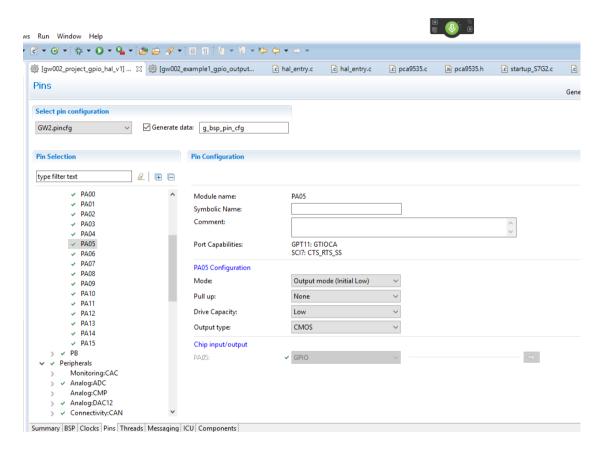
# Pin Configuration



### Disable SCI7



# PMOD1: PA05/4/3/2, P400 GPIO Output Mode



rable o - Prilod i OAR i Type 4A and SPI Type ZA Pili Connections

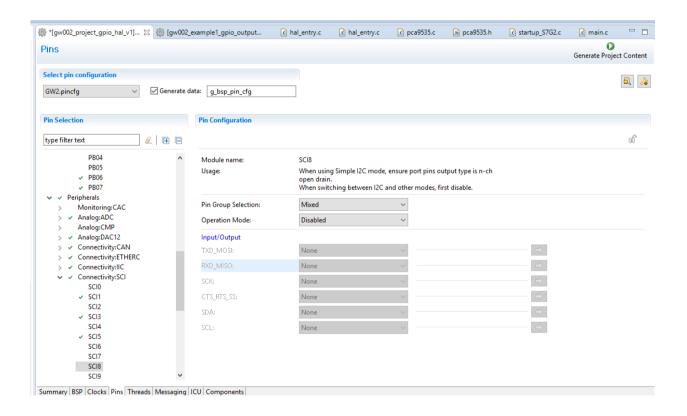
#### GPIO Type 1 Pmods

If clearance is not an issue, two GPIO Type 1 standard Pmods can be used together when the connector is configured in UART/SPI Comms Mode. <u>Do not turn a second Type 1 Pmod upside down to get it to fit! Damage may occur as a result of inserting a Pmod upside down!</u>

	Pmod		\$7G2	
	Pin	Pin Function	Port Pin	Pin Function
Upper Row	1	GPIO	PA05	GPIO
	2	GPIO	PA02	GPIO
	3	GPIO	PA03	GPIO
	4	GPIO	PA04	GPIO
	5	GND	GND	GND
	6	VCC (3.3V)	VCC (3.3V)	VCC (3.3V)
Lower Row	1	GPIO	P400	GPIO
	2	GPIO	I/O Expander	GPIO
	3	GPIO	I/O Expander	GPIO
	4	GPIO	I/O Expander	GPIO
	5	GND	GND	GND
	6	VCC (3.3V)	VCC (3.3V)	VCC (3.3V)

Table 7 – Pmod1 GPIO Type 1 Pin Connections (UART/SPI Mode)

#### Disable SCI8



#### PMOD2:

#### PB05/4/3/2, GPIO Output Mode.

P001: GPIO Input Mode (Output Mode is not available)

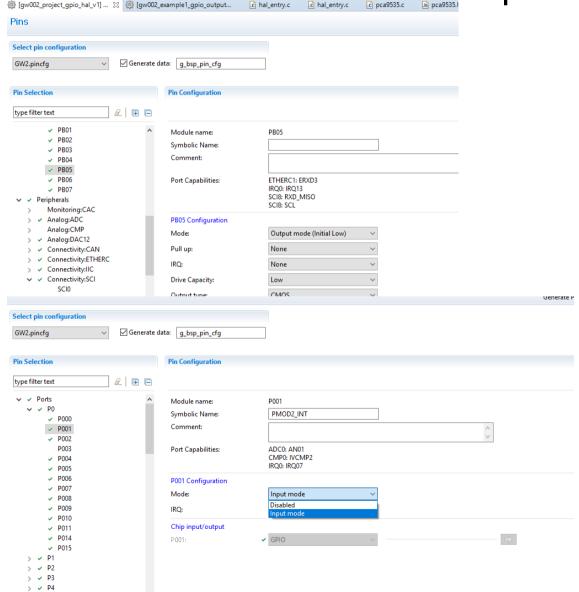


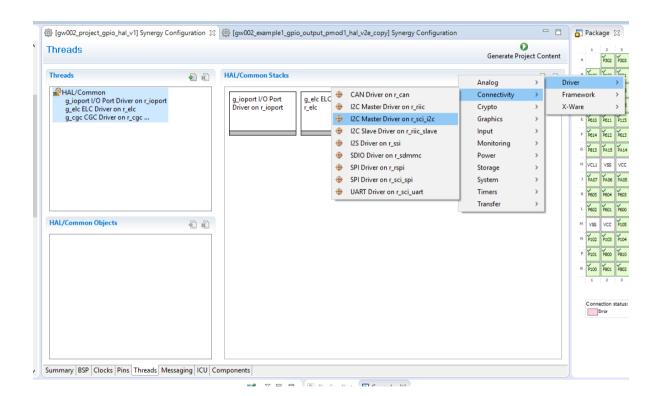
Table 13 - PMod2 UART Type 4A and SPT Type 2A PIN Connections

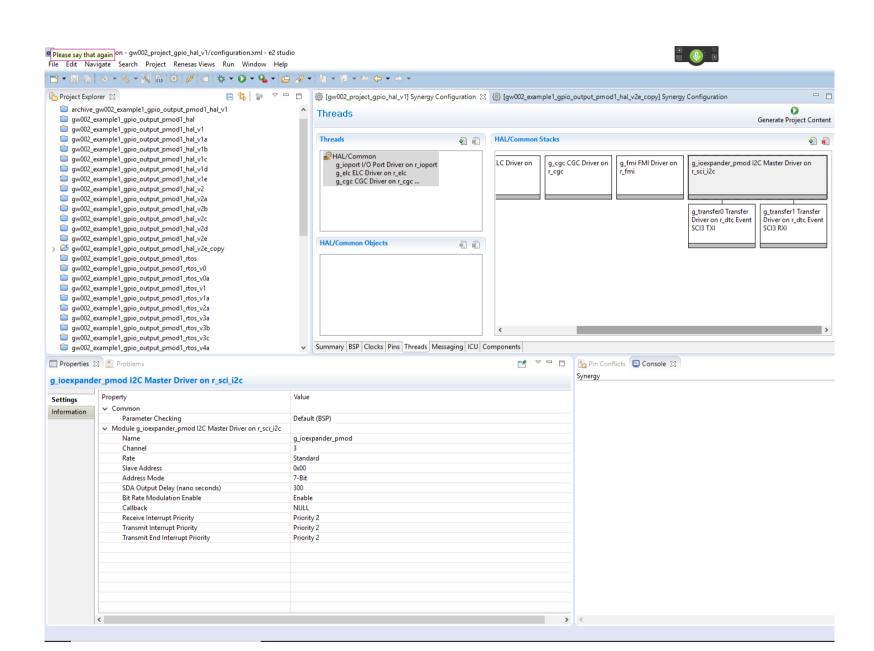
#### GPIO Type 1 Pmods

If clearance is not an issue, two GPIO Type 1 standard Pmods can be used together when the connector is configured in UART/SPI Comms Mode. <u>Do not turn a second Type 1 Pmod upside down to get it to fit! Damage may occur as a result of inserting a Pmod upside down!</u>

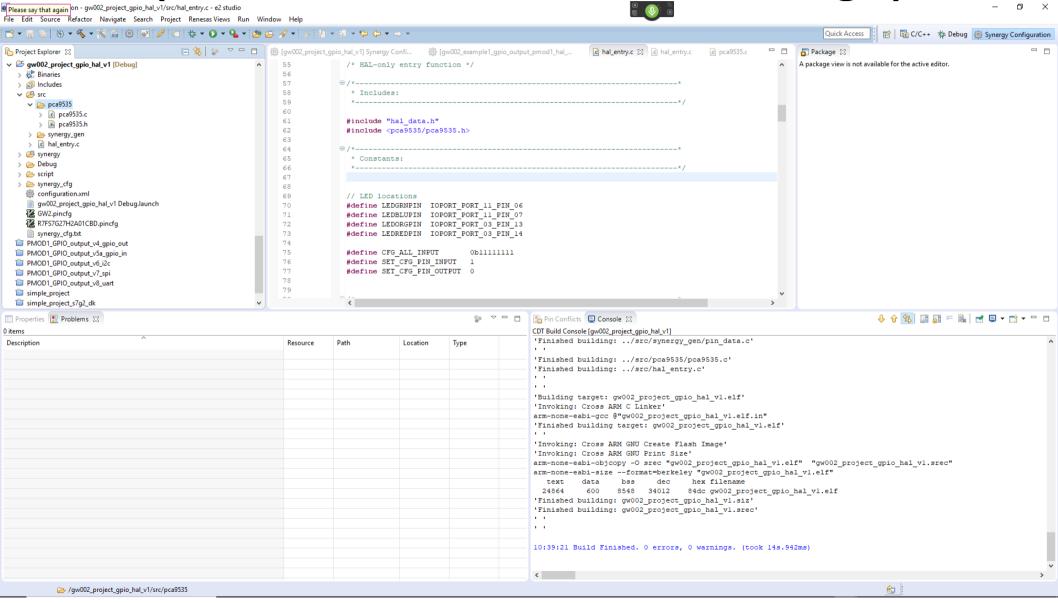
	Pmod		\$7G2	
	Pin	Pin Function	Port Pin	Pin Function
Row	1	GPIO	PB02	GPIO
	2	GPIO	PB04	GPIO
œ	3	GPIO	PB05	GPIO
ē	4	GPIO	PB03	GPIO
Upper	5	GND	GND	GND
	6	VCC (3.3V)	VCC (3.3V)	VCC (3.3V)
	1	GPIO	P001	GPIO
Row	2	GPIO	I/O Expander	GPIO
œ	3	GPIO	I/O Expander	GPIO
Lower	4	GPIO	I/O Expander	GPIO
	5	GND	GND	GND
	6	VCC (3.3V)	VCC (3.3V)	VCC (3.3V)

Table 14 - Pmod2 GPIO Type 1 Pin Connections (SPI/UART Mode)

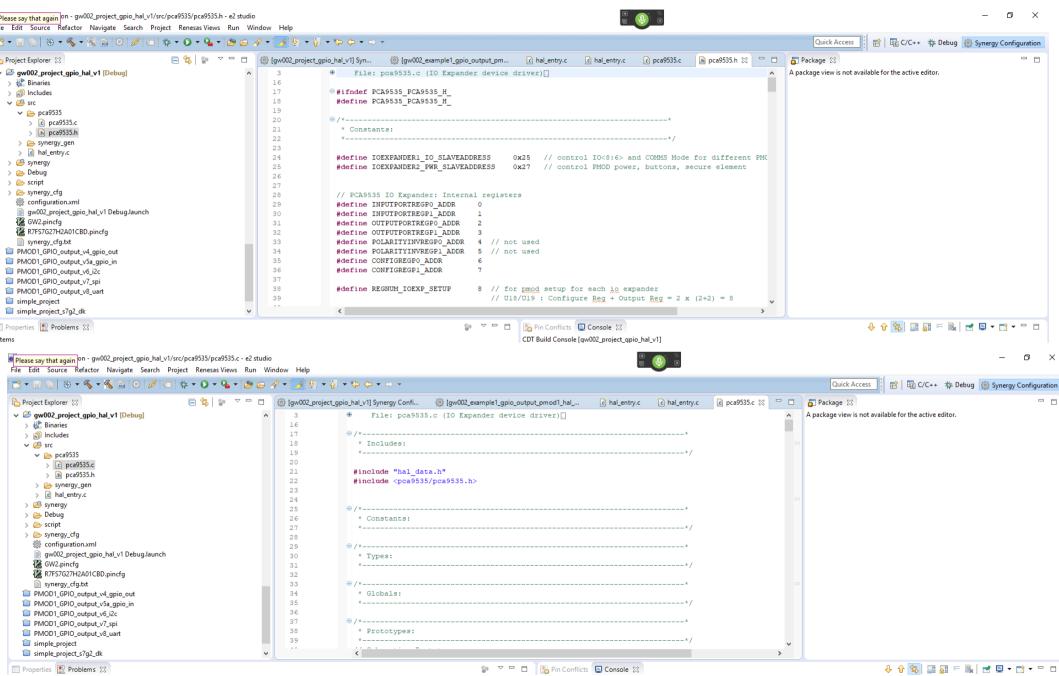




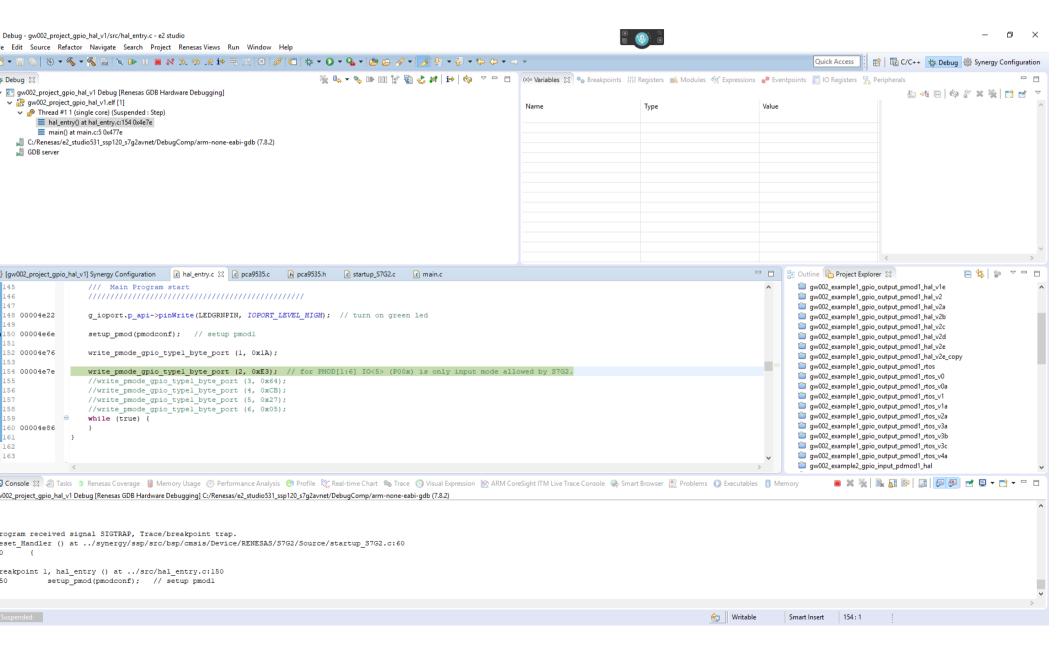
# hal\_entry.c (Build: No errors or\_warnings)



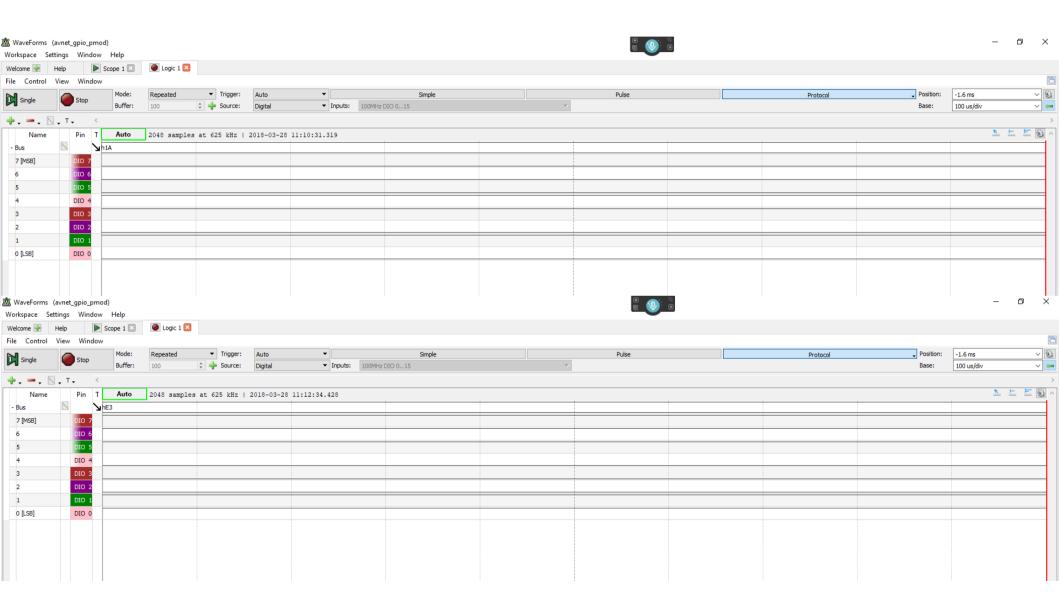
#### Pca9535.h/c



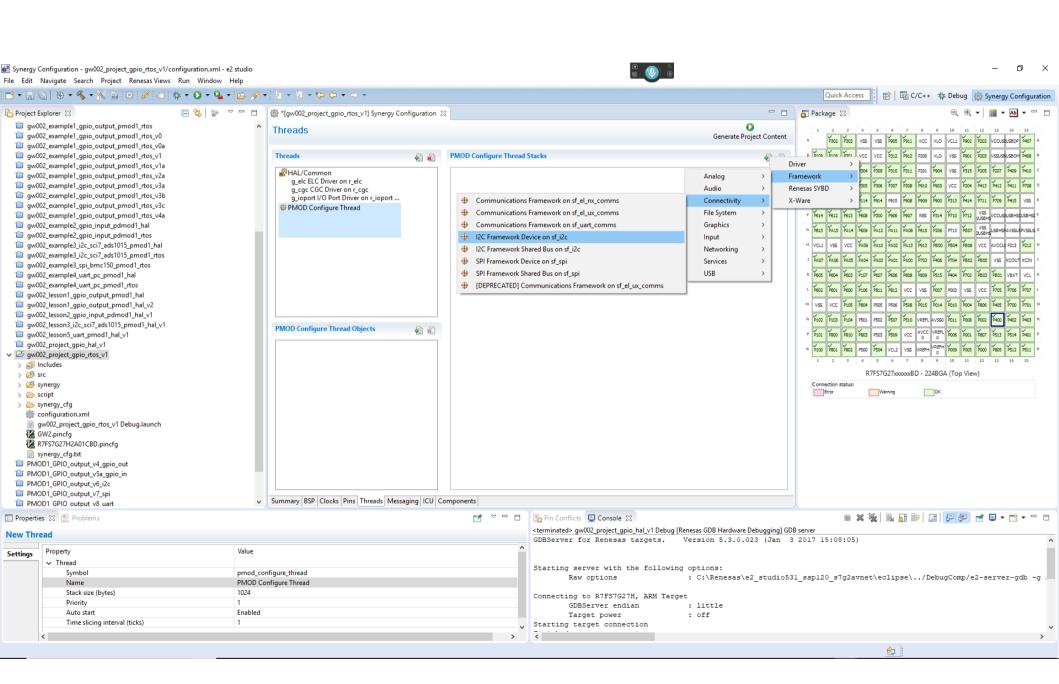
#### Run

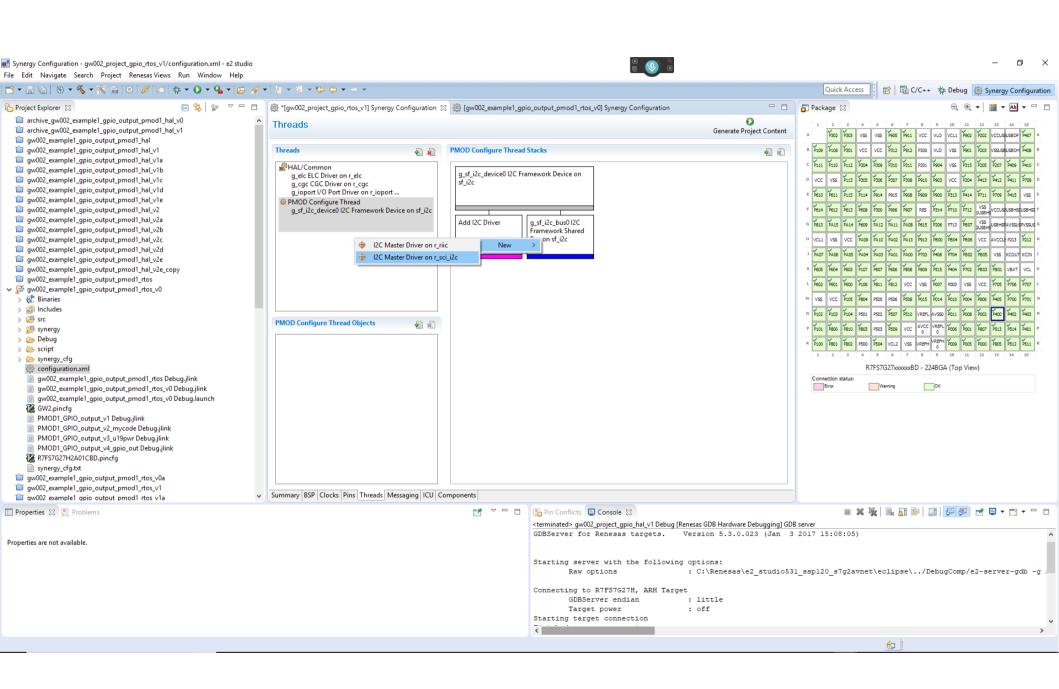


# Scope Probing

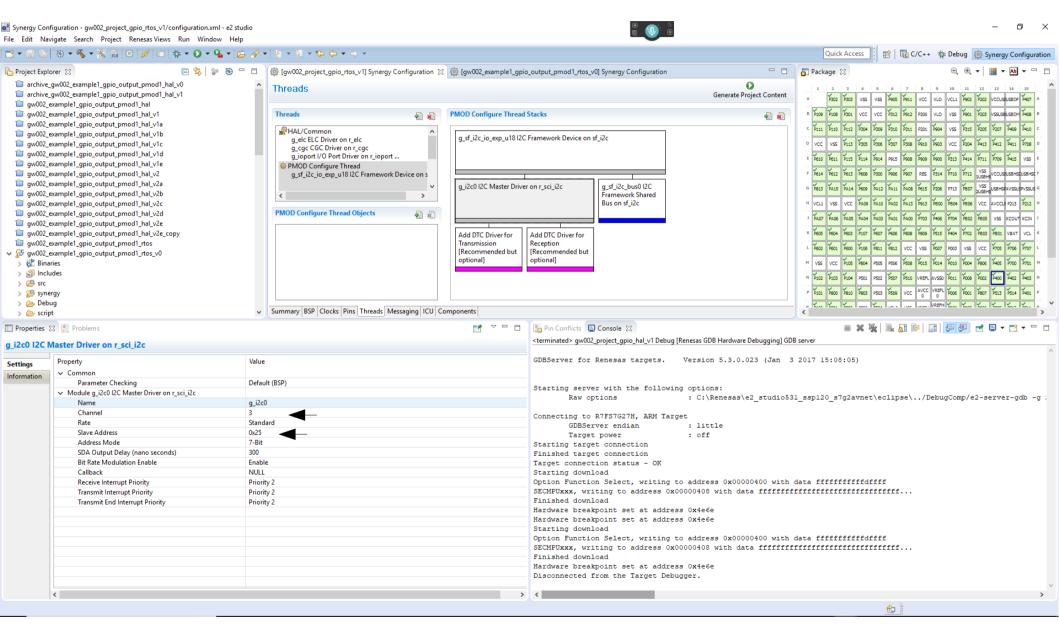


### **RTOS**

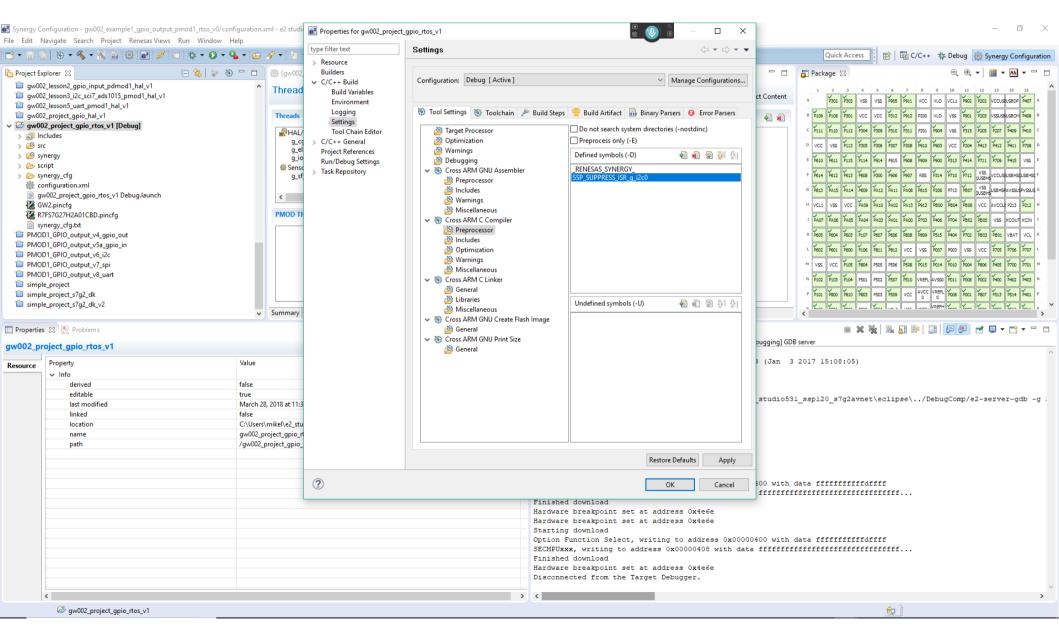


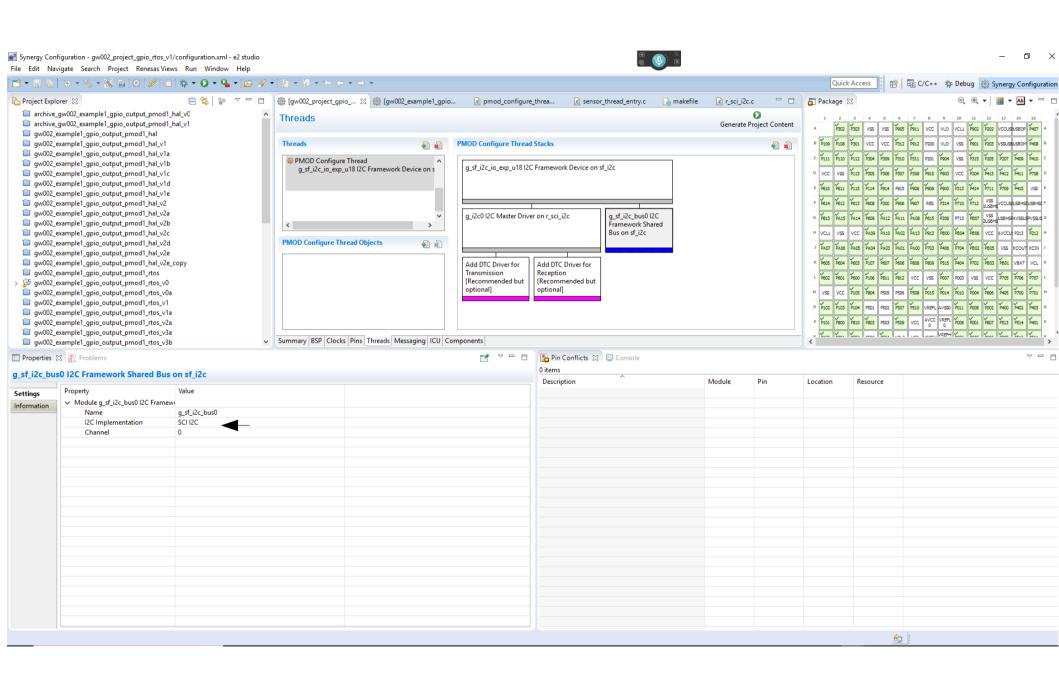


### Add framework driver for U18

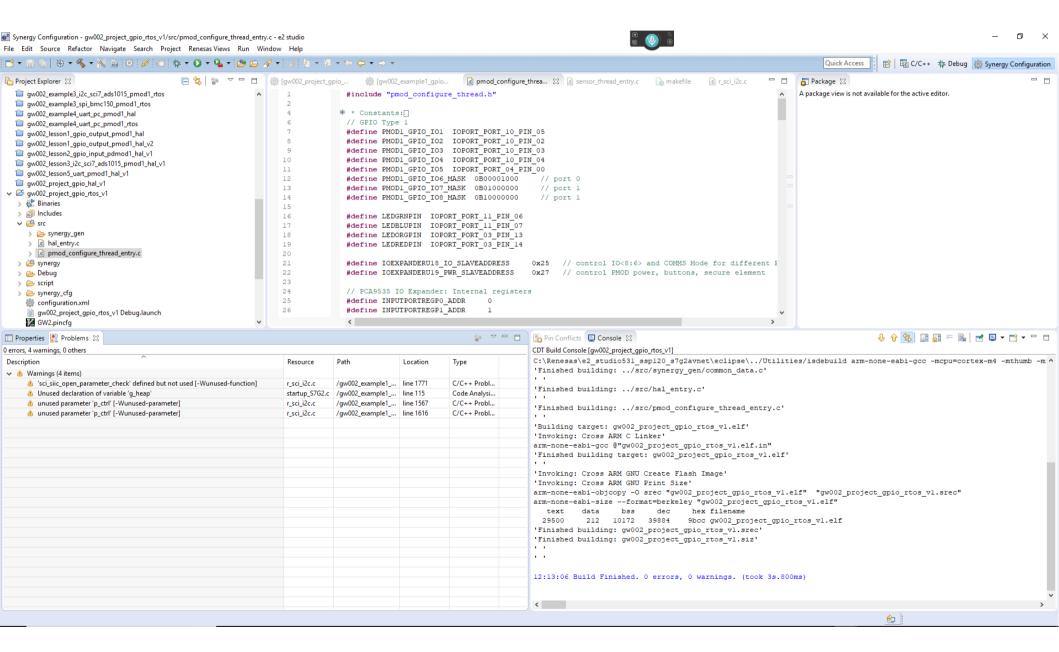


# Suppress errors.





#### Clean Build



# SSP\_ERR\_IRQ\_BSP\_DISABLED

