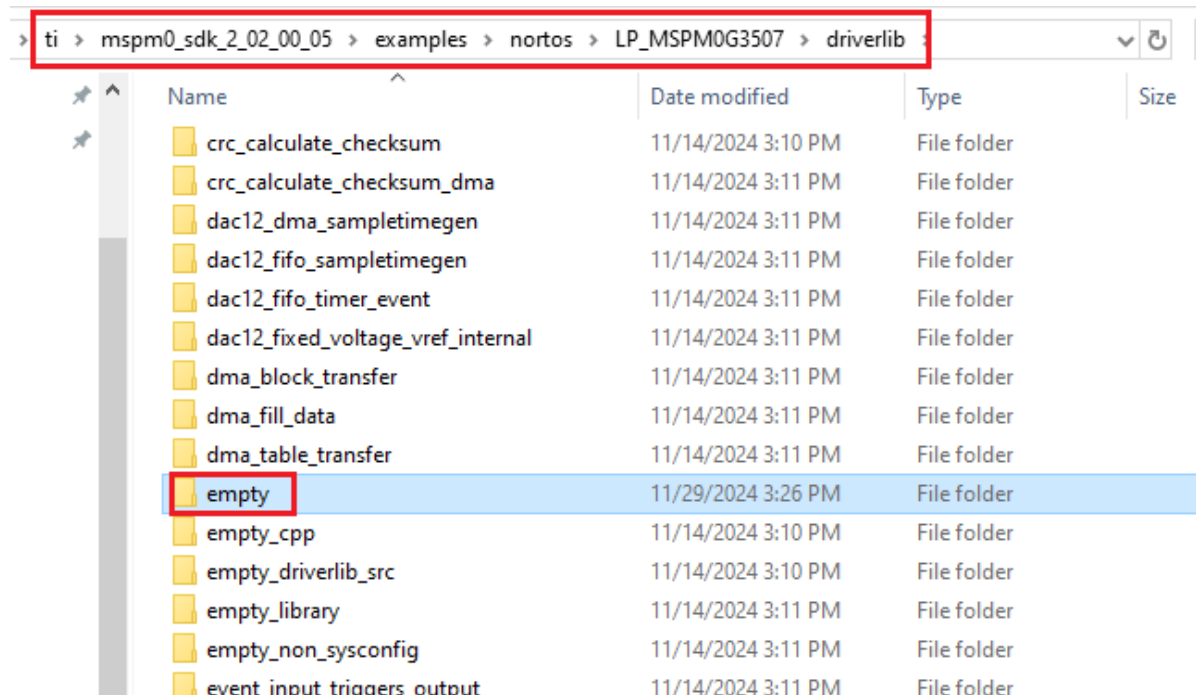


Project Migration

In many cases, we need to hand over the project we wrote to others. In order to ensure that the project can be successfully migrated and run in the new environment, we need to follow certain steps to package and migrate. In this section, we will introduce how to migrate the example project in the TI SDK to other platforms or devices, and provide some common precautions.

1. Find the routine to be migrated and copy it

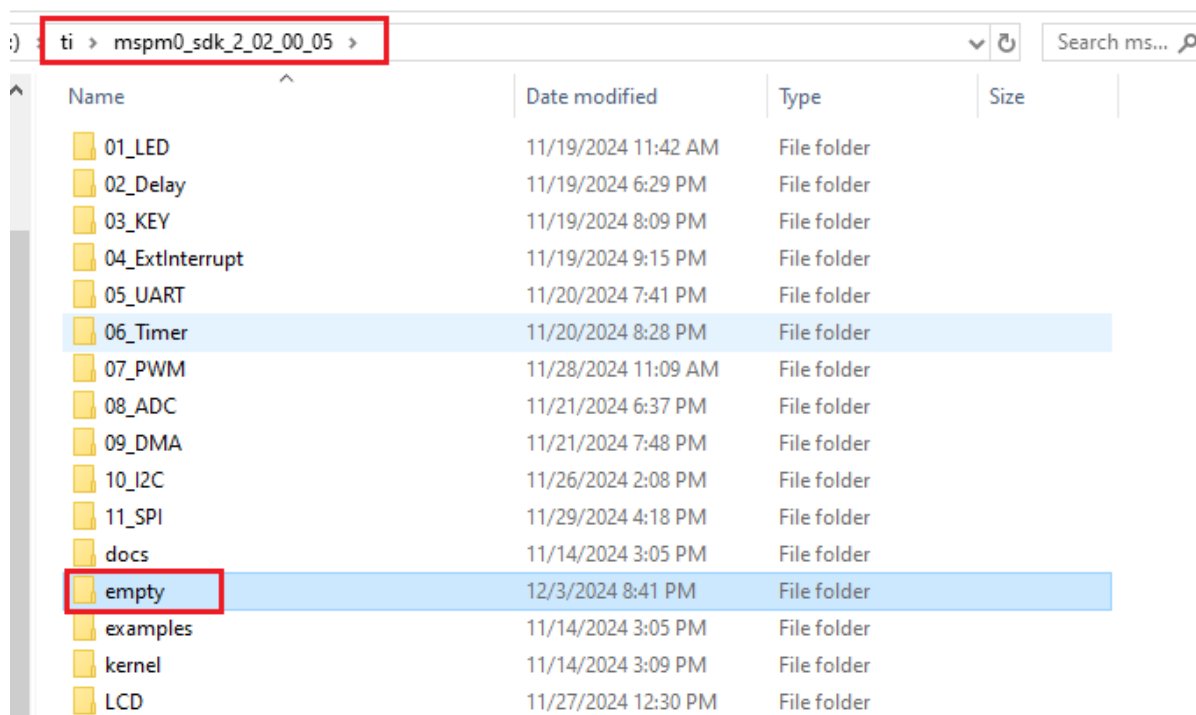
Select the routine you need. Here we use the routine "Empty Project Empty".



ti > mspm0_sdk_2_02_00_05 > examples > nortos > LP_MSPM0G3507 > driverlib					▼	🔄
Name	Date modified	Type	Size			
crc_calculate_checksum	11/14/2024 3:10 PM	File folder				
crc_calculate_checksum_dma	11/14/2024 3:11 PM	File folder				
dac12_dma_sampletimegen	11/14/2024 3:11 PM	File folder				
dac12_fifo_sampletimegen	11/14/2024 3:11 PM	File folder				
dac12_fifo_timer_event	11/14/2024 3:11 PM	File folder				
dac12_fixed_voltage_vref_internal	11/14/2024 3:11 PM	File folder				
dma_block_transfer	11/14/2024 3:11 PM	File folder				
dma_fill_data	11/14/2024 3:11 PM	File folder				
dma_table_transfer	11/14/2024 3:11 PM	File folder				
empty	11/29/2024 3:26 PM	File folder				
empty_cpp	11/14/2024 3:10 PM	File folder				
empty_driverlib_src	11/14/2024 3:10 PM	File folder				
empty_library	11/14/2024 3:11 PM	File folder				
empty_non_sysconfig	11/14/2024 3:11 PM	File folder				
event input triqqers output	11/14/2024 3:11 PM	File folder				

2. Paste the copied routine into the root directory of the SDK

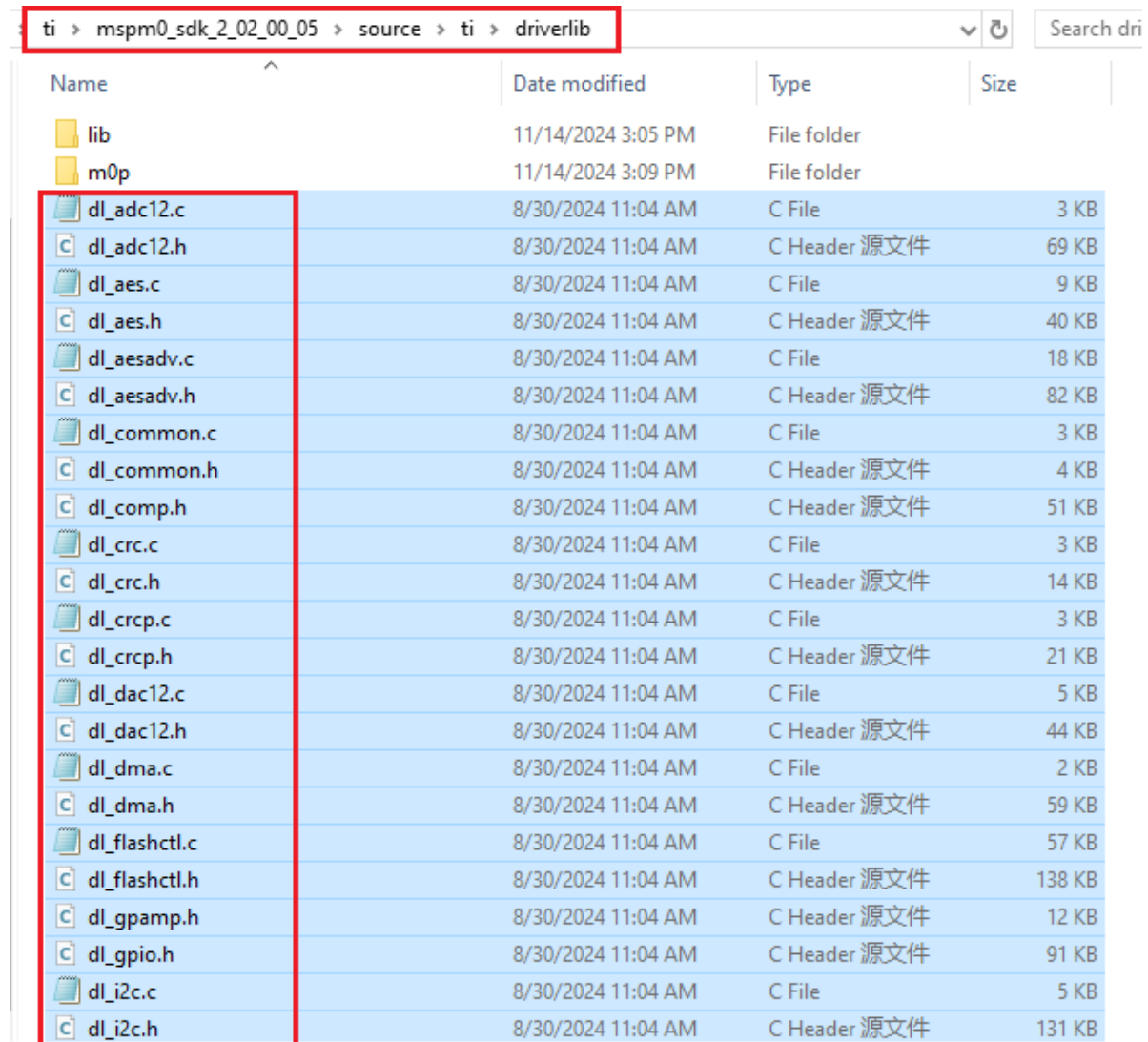
Paste the routine file you just copied into the root directory of the SDK.



ti > mspm0_sdk_2_02_00_05					▼	🔄	Search ms... 🔍
Name	Date modified	Type	Size				
01_LED	11/19/2024 11:42 AM	File folder					
02_Delay	11/19/2024 6:29 PM	File folder					
03_KEY	11/19/2024 8:09 PM	File folder					
04_ExtInterrupt	11/19/2024 9:15 PM	File folder					
05_UART	11/20/2024 7:41 PM	File folder					
06_Timer	11/20/2024 8:28 PM	File folder					
07_PWM	11/28/2024 11:09 AM	File folder					
08_ADC	11/21/2024 6:37 PM	File folder					
09_DMA	11/21/2024 7:48 PM	File folder					
10_I2C	11/26/2024 2:08 PM	File folder					
11_SPI	11/29/2024 4:18 PM	File folder					
docs	11/14/2024 3:05 PM	File folder					
empty	12/3/2024 8:41 PM	File folder					
examples	11/14/2024 3:05 PM	File folder					
kernel	11/14/2024 3:09 PM	File folder					
LCD	11/27/2024 12:30 PM	File folder					

3. Copy driverlib files

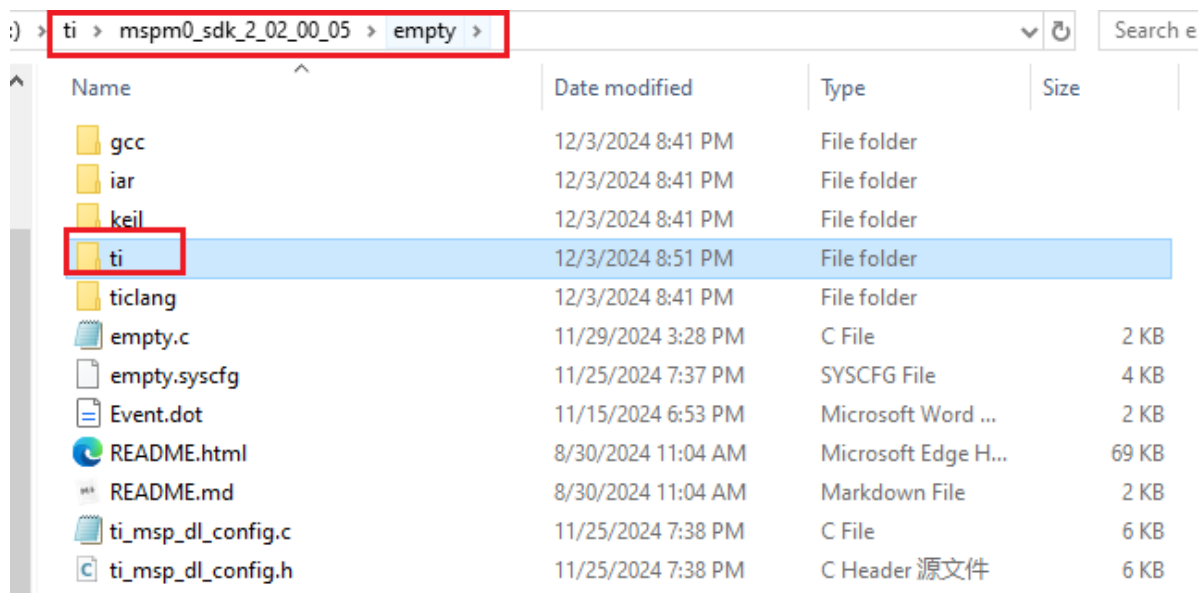
Enter the `<SDK root directory>\source\ti\driverlib` path in the SDK directory and copy all the files in the `driverlib` folder (note: only copy the files, not the folder).



Name	Date modified	Type	Size
lib	11/14/2024 3:05 PM	File folder	
m0p	11/14/2024 3:09 PM	File folder	
dl_adc12.c	8/30/2024 11:04 AM	C File	3 KB
dl_adc12.h	8/30/2024 11:04 AM	C Header 源文件	69 KB
dl_aes.c	8/30/2024 11:04 AM	C File	9 KB
dl_aes.h	8/30/2024 11:04 AM	C Header 源文件	40 KB
dl_aesadv.c	8/30/2024 11:04 AM	C File	18 KB
dl_aesadv.h	8/30/2024 11:04 AM	C Header 源文件	82 KB
dl_common.c	8/30/2024 11:04 AM	C File	3 KB
dl_common.h	8/30/2024 11:04 AM	C Header 源文件	4 KB
dl_comp.h	8/30/2024 11:04 AM	C Header 源文件	51 KB
dl_crc.c	8/30/2024 11:04 AM	C File	3 KB
dl_crc.h	8/30/2024 11:04 AM	C Header 源文件	14 KB
dl_crcp.c	8/30/2024 11:04 AM	C File	3 KB
dl_crcp.h	8/30/2024 11:04 AM	C Header 源文件	21 KB
dl_dac12.c	8/30/2024 11:04 AM	C File	5 KB
dl_dac12.h	8/30/2024 11:04 AM	C Header 源文件	44 KB
dl_dma.c	8/30/2024 11:04 AM	C File	2 KB
dl_dma.h	8/30/2024 11:04 AM	C Header 源文件	59 KB
dl_flashctl.c	8/30/2024 11:04 AM	C File	57 KB
dl_flashctl.h	8/30/2024 11:04 AM	C Header 源文件	138 KB
dl_gpamp.h	8/30/2024 11:04 AM	C Header 源文件	12 KB
dl_gpio.h	8/30/2024 11:04 AM	C Header 源文件	91 KB
dl_i2c.c	8/30/2024 11:04 AM	C File	5 KB
dl_i2c.h	8/30/2024 11:04 AM	C Header 源文件	131 KB

4. Create a new ti folder and paste the files

Go back to the path of the example, create a new `ti` folder, and paste all the files copied previously into the newly created `ti` folder.



Name	Date modified	Type	Size
gcc	12/3/2024 8:41 PM	File folder	
iar	12/3/2024 8:41 PM	File folder	
keil	12/3/2024 8:41 PM	File folder	
ti	12/3/2024 8:51 PM	File folder	
ticlang	12/3/2024 8:41 PM	File folder	
empty.c	11/29/2024 3:28 PM	C File	2 KB
empty.syscfg	11/25/2024 7:37 PM	SYSCFG File	4 KB
Event.dot	11/15/2024 6:53 PM	Microsoft Word ...	2 KB
README.html	8/30/2024 11:04 AM	Microsoft Edge H...	69 KB
README.md	8/30/2024 11:04 AM	Markdown File	2 KB
ti_msp_dl_config.c	11/25/2024 7:38 PM	C File	6 KB
ti_msp_dl_config.h	11/25/2024 7:38 PM	C Header 源文件	6 KB

ti > mspm0_sdk_2_02_00_05 > empty > ti				Search ti
Name	Date modified	Type	Size	
dl_adc12.c	8/30/2024 11:04 AM	C File	3 KB	
dl_adc12.h	8/30/2024 11:04 AM	C Header 源文件	69 KB	
dl_aes.c	8/30/2024 11:04 AM	C File	9 KB	
dl_aes.h	8/30/2024 11:04 AM	C Header 源文件	40 KB	
dl_aesadv.c	8/30/2024 11:04 AM	C File	18 KB	
dl_aesadv.h	8/30/2024 11:04 AM	C Header 源文件	82 KB	
dl_common.c	8/30/2024 11:04 AM	C File	3 KB	
dl_common.h	8/30/2024 11:04 AM	C Header 源文件	4 KB	
dl_comp.h	8/30/2024 11:04 AM	C Header 源文件	51 KB	
dl_crc.c	8/30/2024 11:04 AM	C File	3 KB	
dl_crc.h	8/30/2024 11:04 AM	C Header 源文件	14 KB	
dl_crcp.c	8/30/2024 11:04 AM	C File	3 KB	
dl_crcp.h	8/30/2024 11:04 AM	C Header 源文件	21 KB	
dl_dac12.c	8/30/2024 11:04 AM	C File	5 KB	
dl_dac12.h	8/30/2024 11:04 AM	C Header 源文件	44 KB	
dl_dma.c	8/30/2024 11:04 AM	C File	2 KB	
dl_dma.h	8/30/2024 11:04 AM	C Header 源文件	59 KB	
dl_flashctl.c	8/30/2024 11:04 AM	C File	57 KB	
dl_flashctl.h	8/30/2024 11:04 AM	C Header 源文件	138 KB	
dl_gpamp.h	8/30/2024 11:04 AM	C Header 源文件	12 KB	
dl_gpio.h	8/30/2024 11:04 AM	C Header 源文件	91 KB	
dl_i2c.c	8/30/2024 11:04 AM	C File	5 KB	
dl_i2c.h	8/30/2024 11:04 AM	C Header 源文件	131 KB	
dl_iwdt.h	8/30/2024 11:04 AM	C Header 源文件	8 KB	
dl_keystorectl.c	8/30/2024 11:04 AM	C File	6 KB	

5. Delete unnecessary folders

Delete unnecessary folders in the project to reduce the project size.

ti > mspm0_sdk_2_02_00_05 > empty				Search e
Name	Date modified	Type	Size	
gcc	12/3/2024 8:41 PM	File folder		Delete
iar	12/3/2024 8:41 PM	File folder		
keil	12/3/2024 8:41 PM	File folder		
ti	12/3/2024 8:51 PM	File folder		
ticlang	12/3/2024 8:41 PM	File folder		
empty.c	11/29/2024 3:28 PM	C File	2 KB	
empty.syscfg	11/25/2024 7:37 PM	SYSCFG File	4 KB	
Event.dot	11/15/2024 6:53 PM	Microsoft Word ...	2 KB	
README.html	8/30/2024 11:04 AM	Microsoft Edge H...	69 KB	
README.md	8/30/2024 11:04 AM	Markdown File	2 KB	
ti_msp_dl_config.c	11/25/2024 7:38 PM	C File	6 KB	
ti_msp_dl_config.h	11/25/2024 7:38 PM	C Header 源文件	6 KB	

Complete project structure:

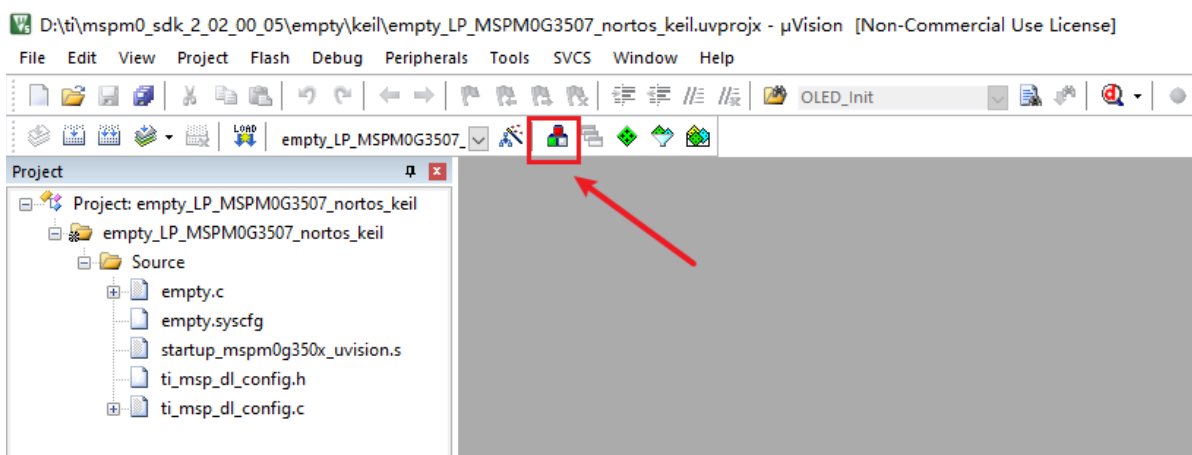
ti > msp0_sdk_2_02_00_05 > empty >				Search e...
Name	Date modified	Type	Size	
keil	12/3/2024 8:41 PM	File folder		
ti	12/3/2024 8:51 PM	File folder		
empty.c	11/29/2024 3:28 PM	C File	2 KB	
empty.syscfg	11/25/2024 7:37 PM	SYSCFG File	4 KB	
Event.dot	11/15/2024 6:53 PM	Microsoft Word ...	2 KB	
README.html	8/30/2024 11:04 AM	Microsoft Edge H...	69 KB	
README.md	8/30/2024 11:04 AM	Markdown File	2 KB	
ti_msp_dl_config.c	11/25/2024 7:38 PM	C File	6 KB	
ti_msp_dl_config.h	11/25/2024 7:38 PM	C Header 源文件	6 KB	

6. Related configuration under keil

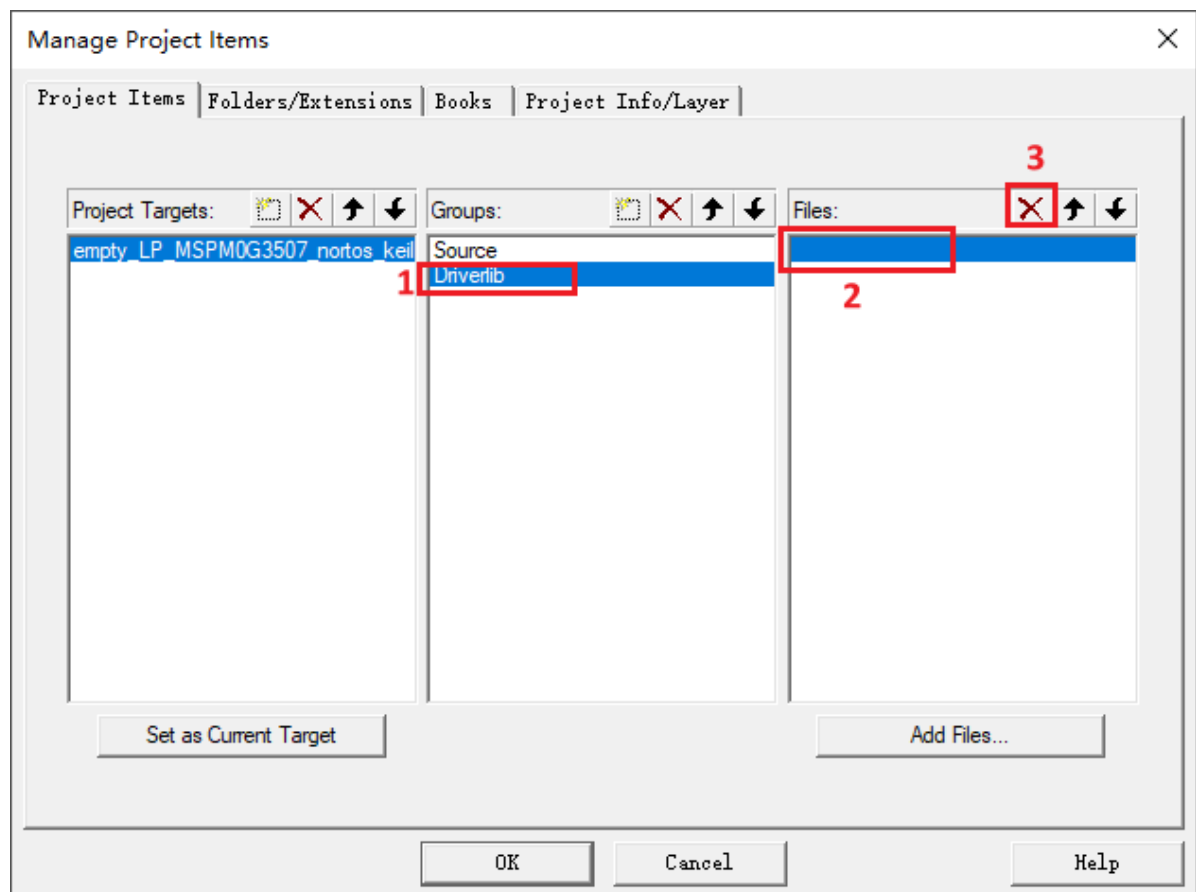
1. Open the keil project file.

ti > msp0_sdk_2_02_00_05 > empty > keil				Search
Name	Date modified	Type	Size	
Objects	12/3/2024 8:41 PM	File folder		
empty_LP_MSPM0G3507_nortos_keil.map	11/25/2024 7:43 PM	Linker Address Map	22 KB	
empty_LP_MSPM0G3507_nortos_keil.uvg...	11/29/2024 3:28 PM	ADMINISTRATOR ...	177 KB	
empty_LP_MSPM0G3507_nortos_keil.uvp...	11/29/2024 3:28 PM	UVOPTX File	18 KB	
empty_LP_MSPM0G3507_nortos_keil.uvp...	11/29/2024 3:28 PM	Uvision5 Project	16 KB	
mspm0g3507.sct	8/30/2024 11:04 AM	Windows Script C...	1 KB	
startup_msp0g350x_uvision.s	8/30/2024 11:04 AM	Assembler Source	10 KB	

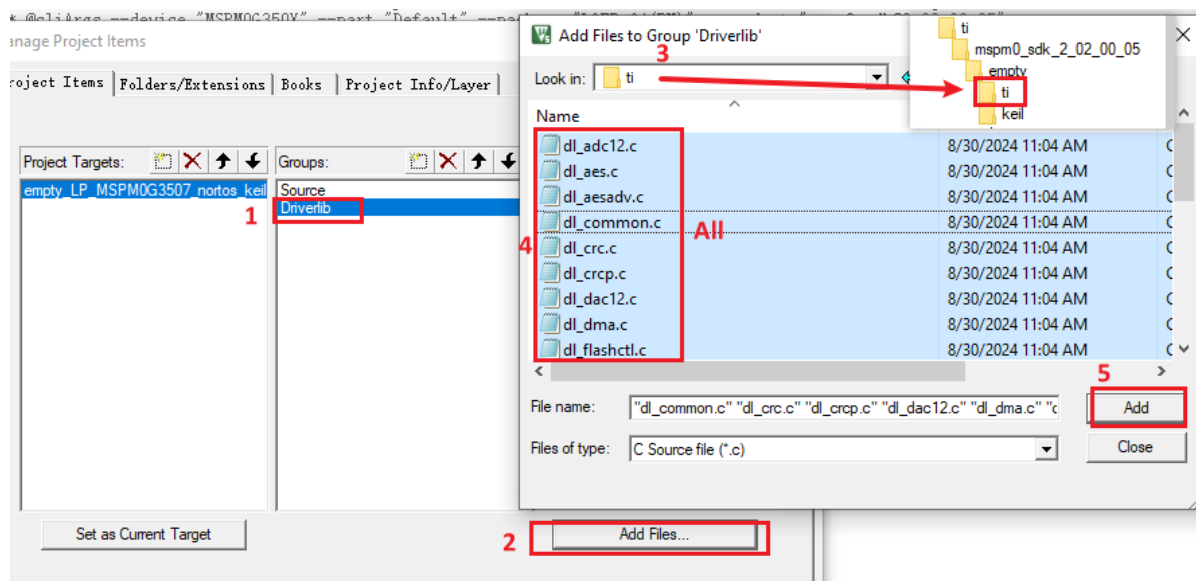
2. Open Keil project management.

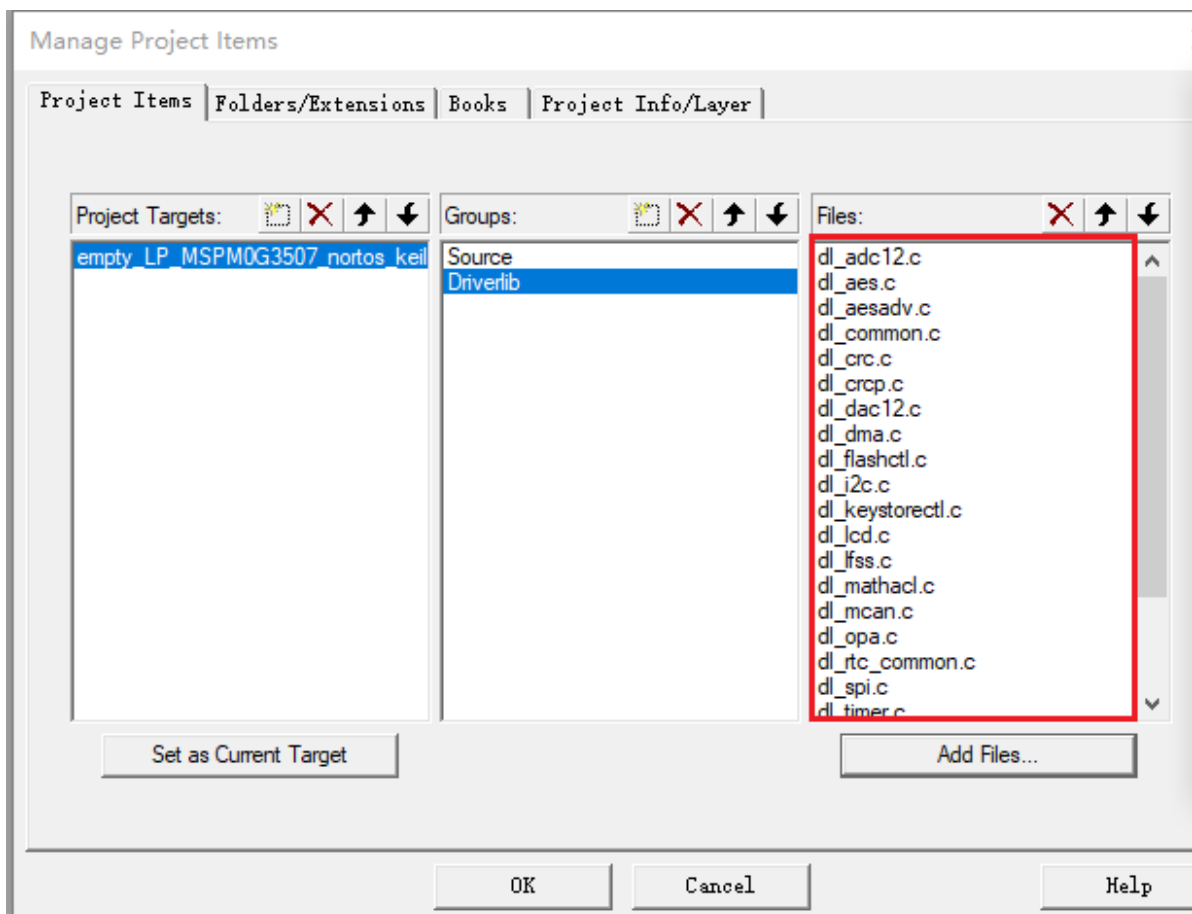


3. In the Keil project, delete the files in the `DriverLib` folder (if there is no such folder, you can skip this step).

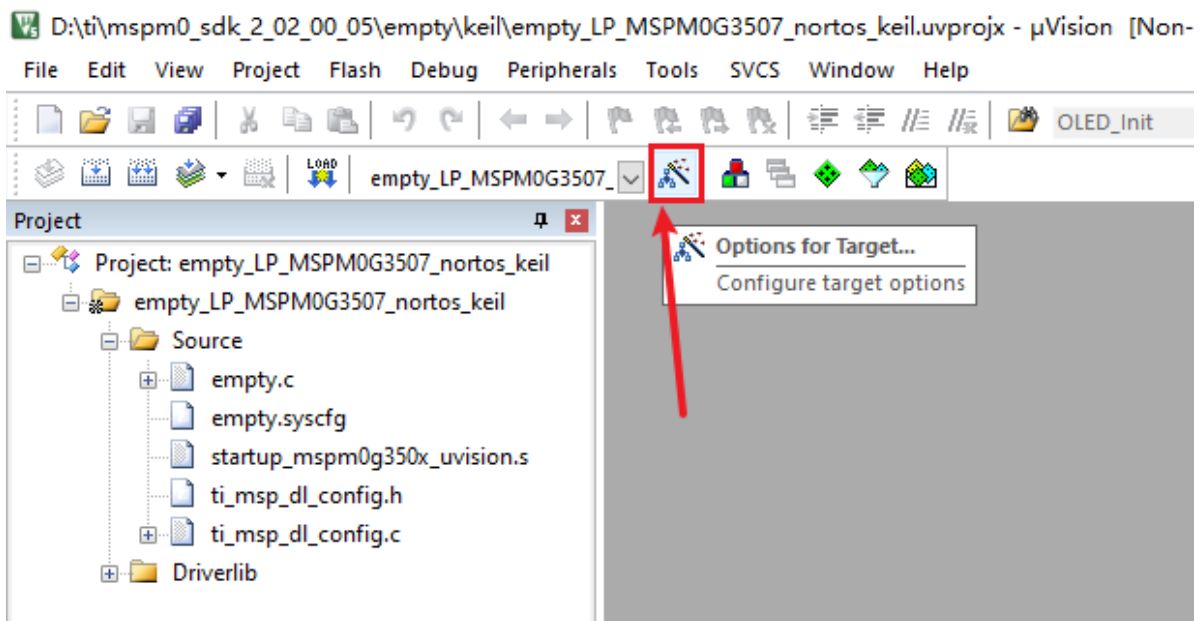


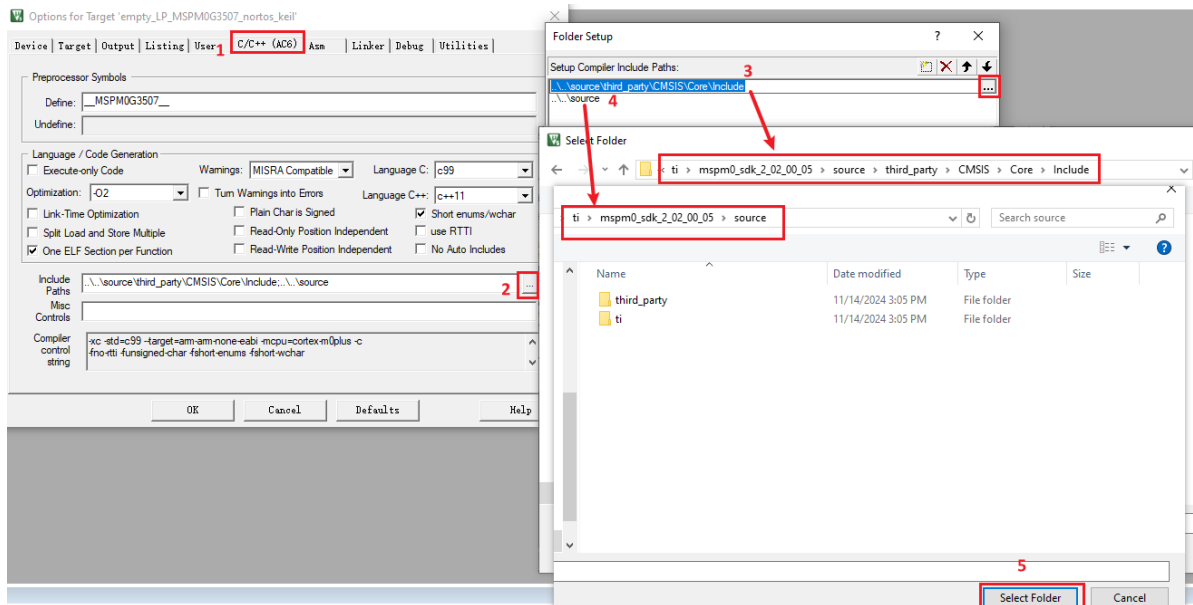
4. Add the previously copied files to the new `Driverlib` folder.



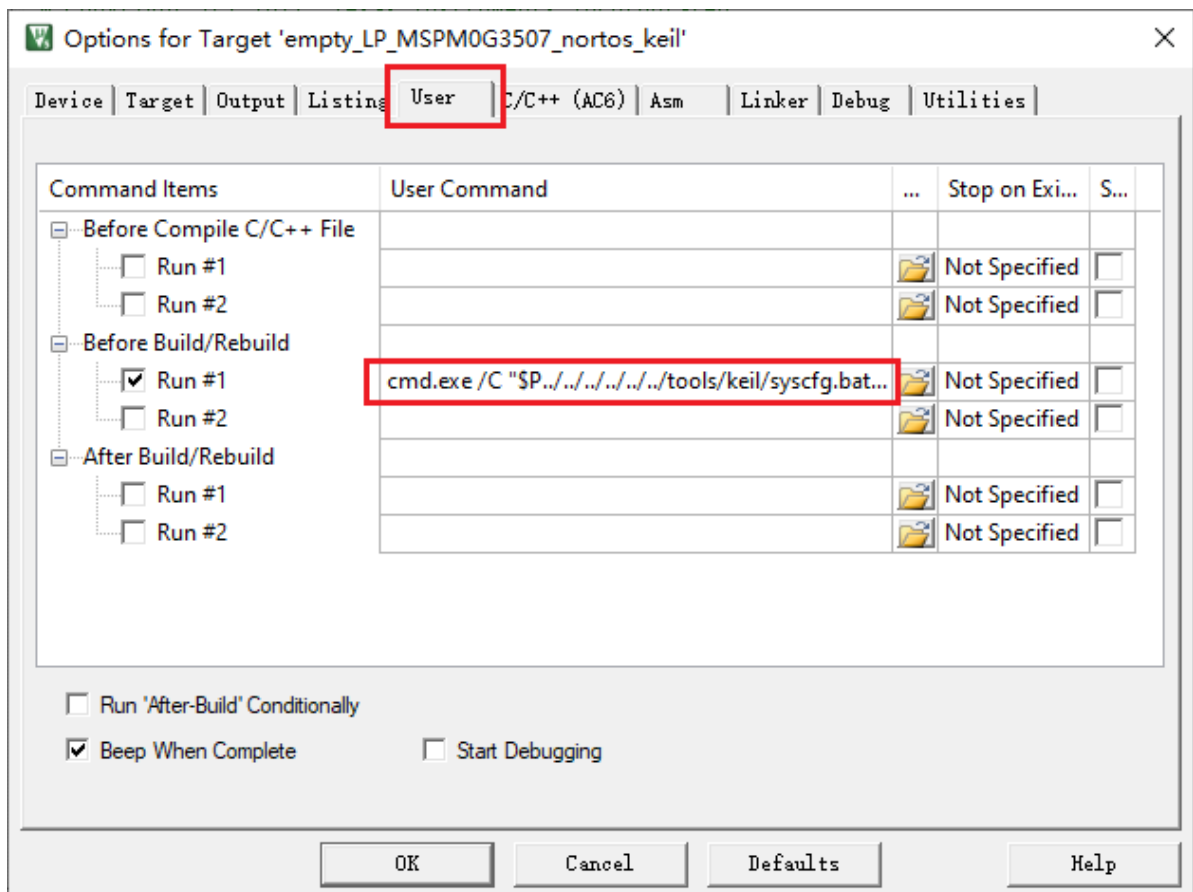


5. Click the "magic wand" to update the header file path.





6. Modify the path in User-> Before Build/Rebuild.

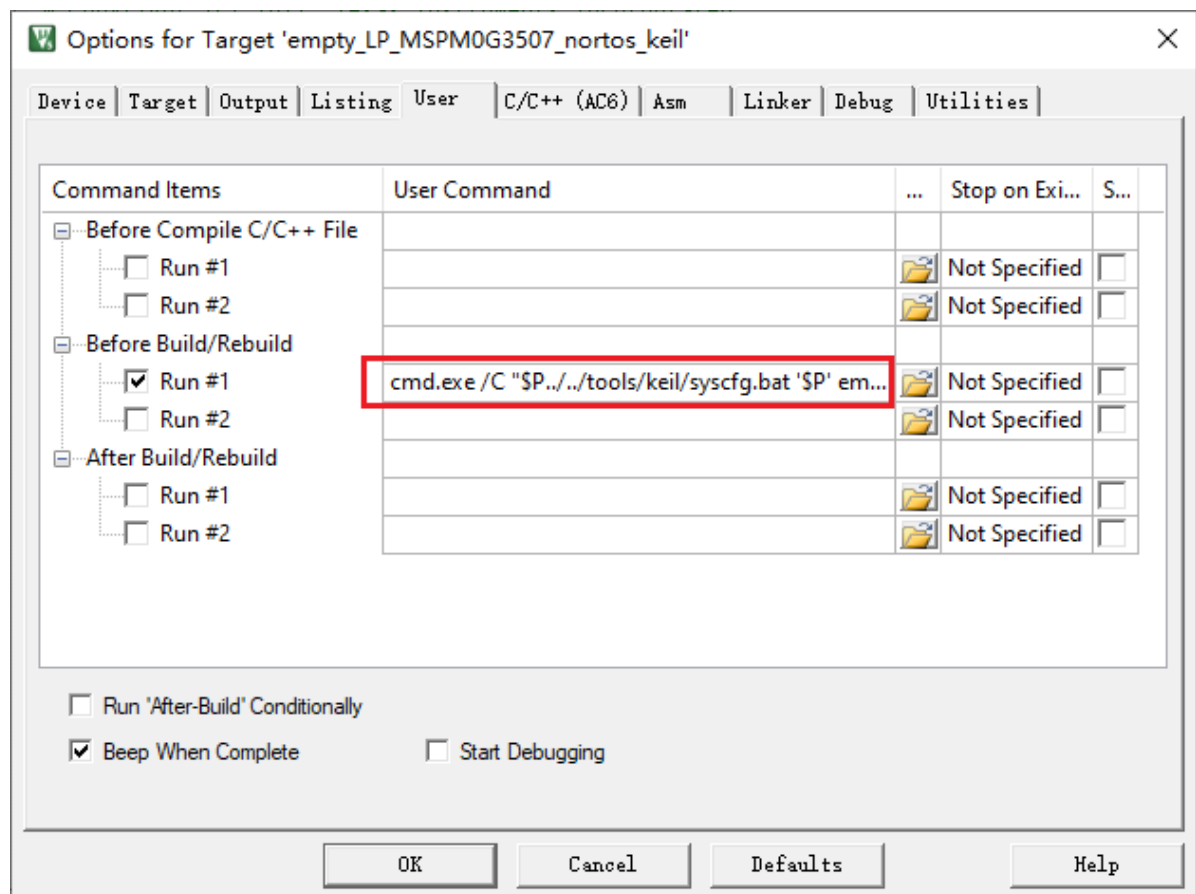


The current path is as follows:

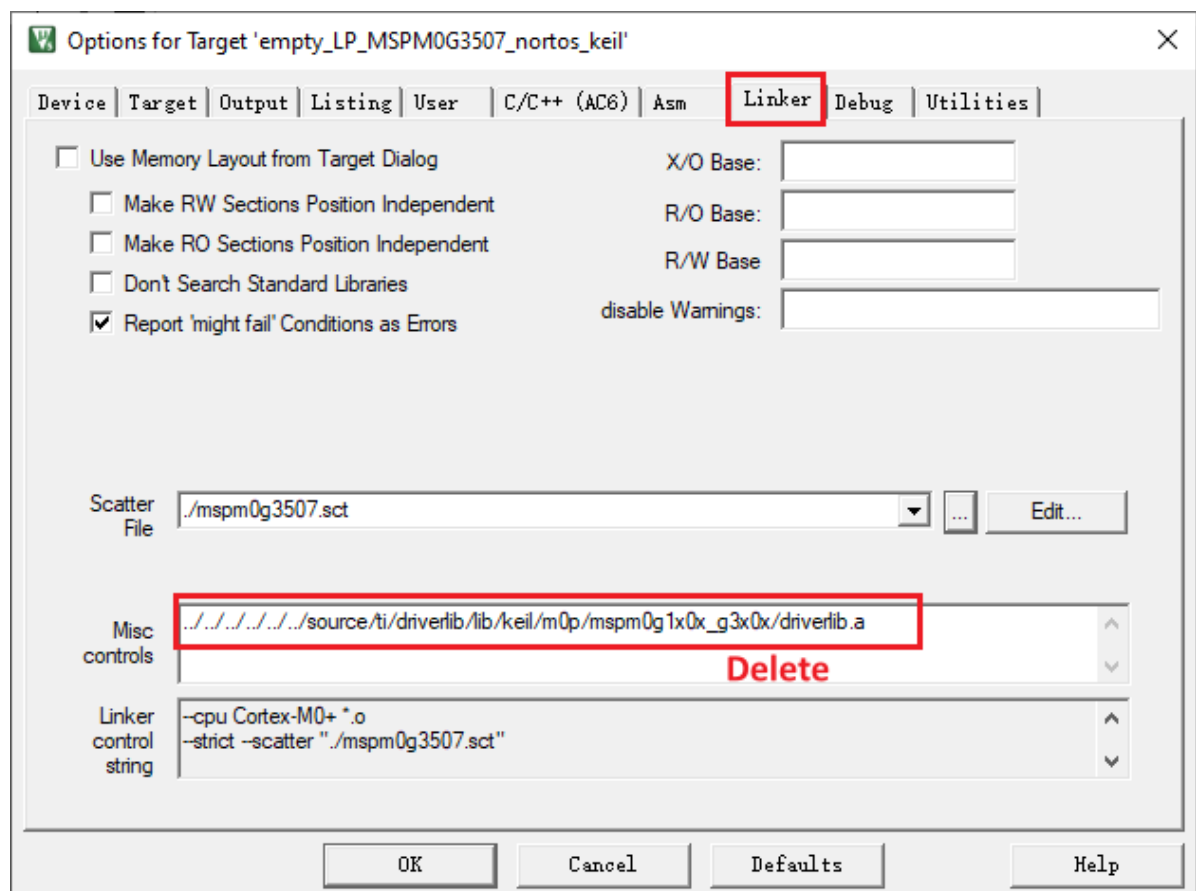
```
cmd.exe /C \"$P../../tools/keil/syscfg.bat '$P' empty.syscfg"
```

In fact, the modification method is to specify /tools/keil/syscfg.bat under the SDK path. ../ represents returning to the previous folder from the keil startup file location of the project. The tools folder is in the SDK root directory. So the path should be changed to the following:

```
cmd.exe /C \"$P../tools/keil/syscfg.bat '$P' empty.syscfg"
```



7. Delete the file path in Linker -> Misc controls



8. After the modification, save and compile, there will be no path problem.

Build Output

```
compiling dl_mathacl.c...
compiling dl_opa.c...
compiling dl_rtc_common.c...
compiling dl_spi.c...
compiling dl_flashctl.c...
compiling dl_timer.c...
compiling dl_mcan.c...
compiling dl_trng.c...
compiling dl_vref.c...
compiling dl_uart.c...
linking...
Program Size: Code=328 RO-data=208 RW-data=0 ZI-data=352
FromELF: creating hex file...
".\Objects\empty_LP_MSPM0G3507_nortos_keil.axf" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:04
```

<