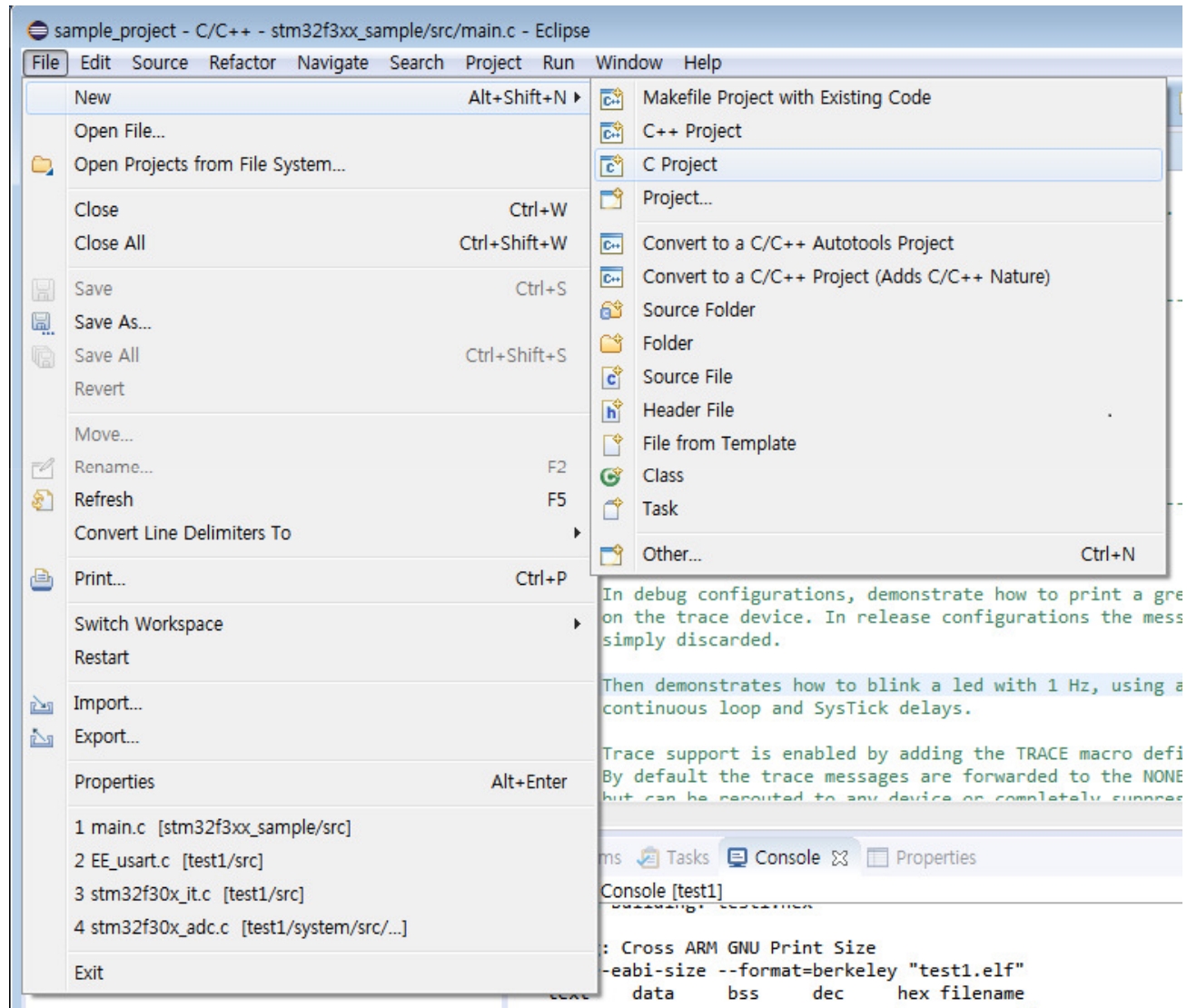


Build STM32fxx with Eclipse, GCC

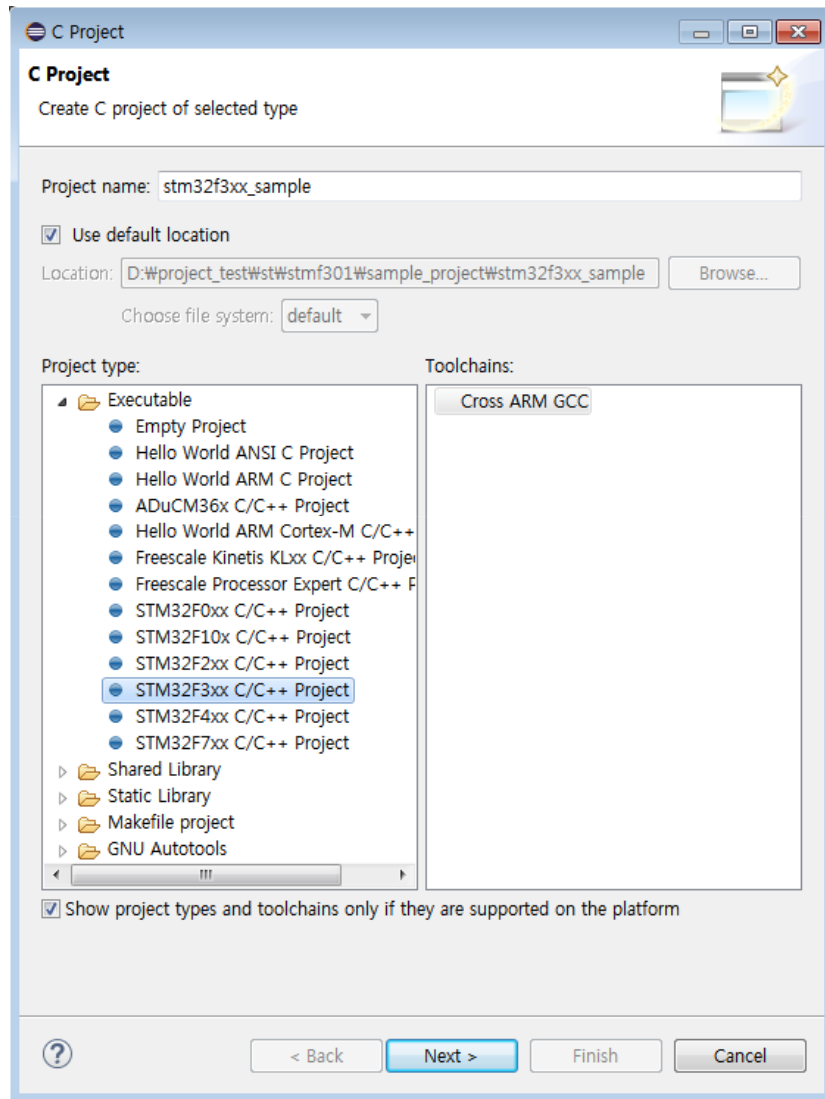
ujuozz@gmail.com

2016. 9. 29

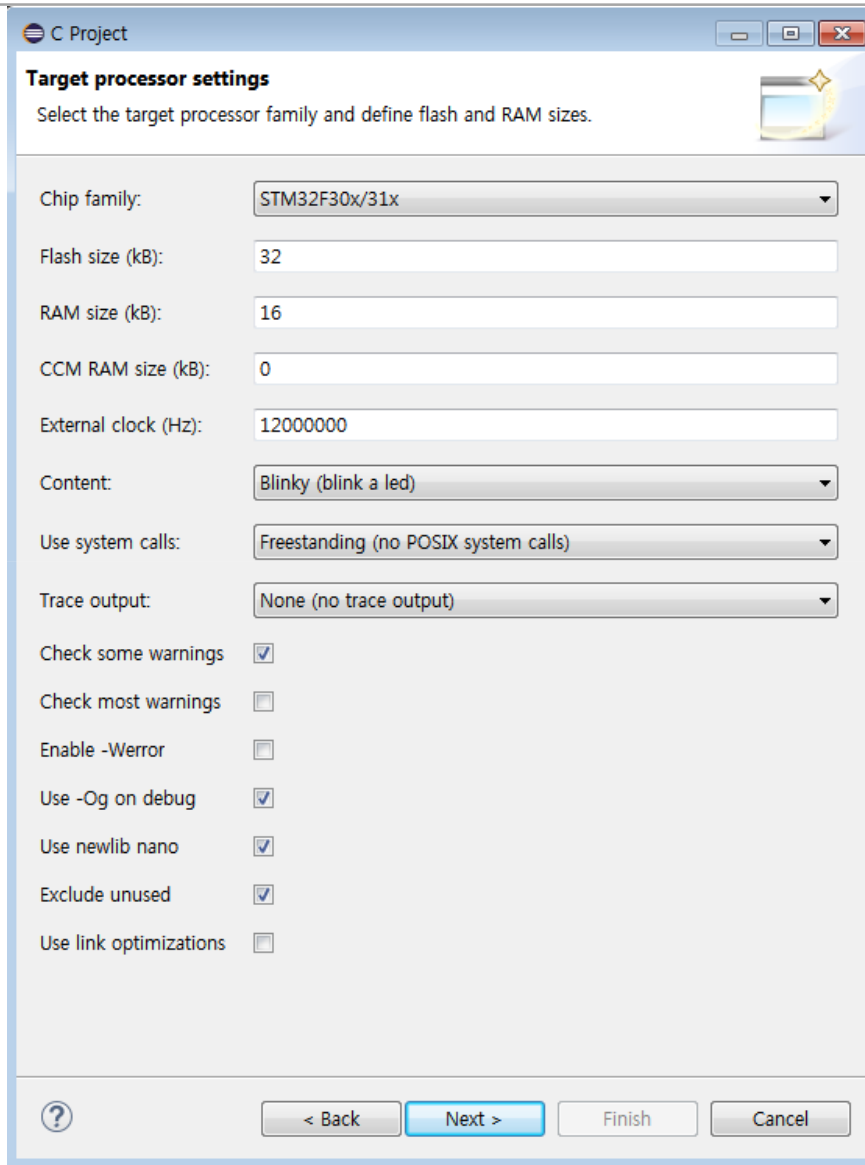
How to



How to



How to



C Project

Target processor settings
Select the target processor family and define flash and RAM sizes.

Chip family: STM32F30x/31x

Flash size (kB): 32

RAM size (kB): 16

CCM RAM size (kB): 0

External clock (Hz): 12000000

Content: Blinky (blink a led)

Use system calls: Freestanding (no POSIX system calls)

Trace output: None (no trace output)

Check some warnings ☒

Check most warnings ☐

Enable -Werror ☐

Use -Og on debug ☒

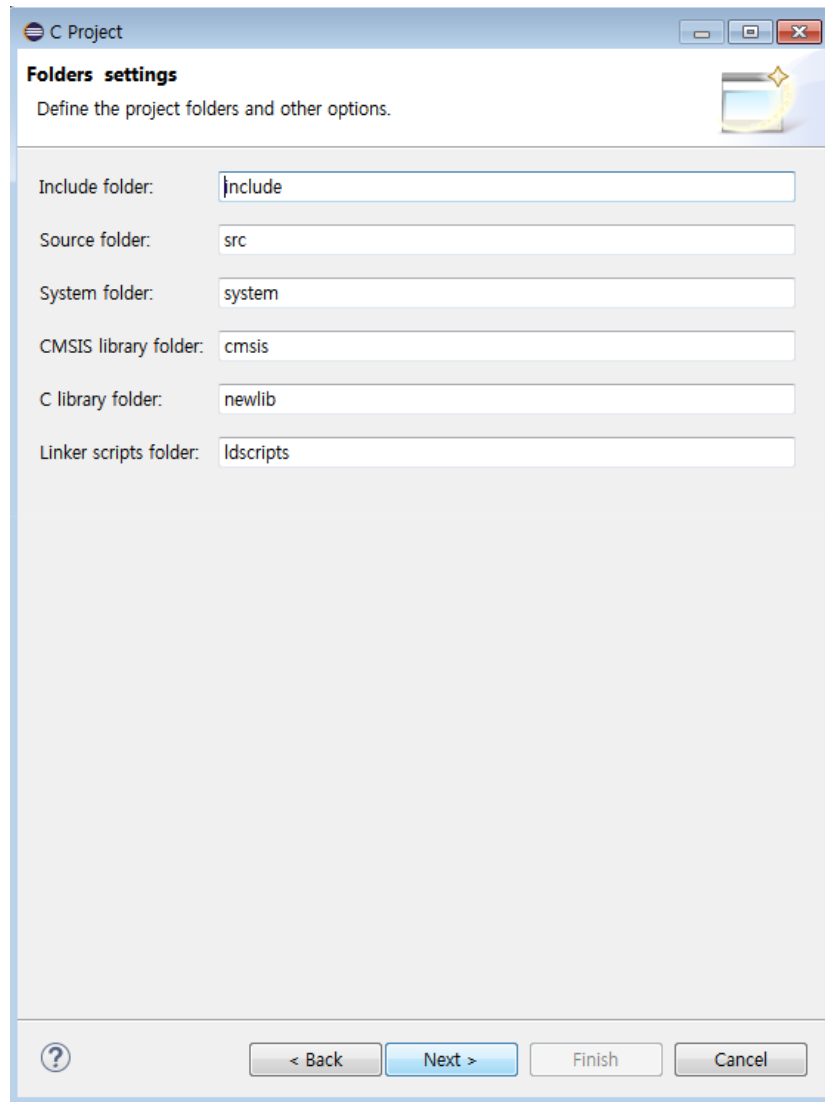
Use newlib nano ☒

Exclude unused ☒

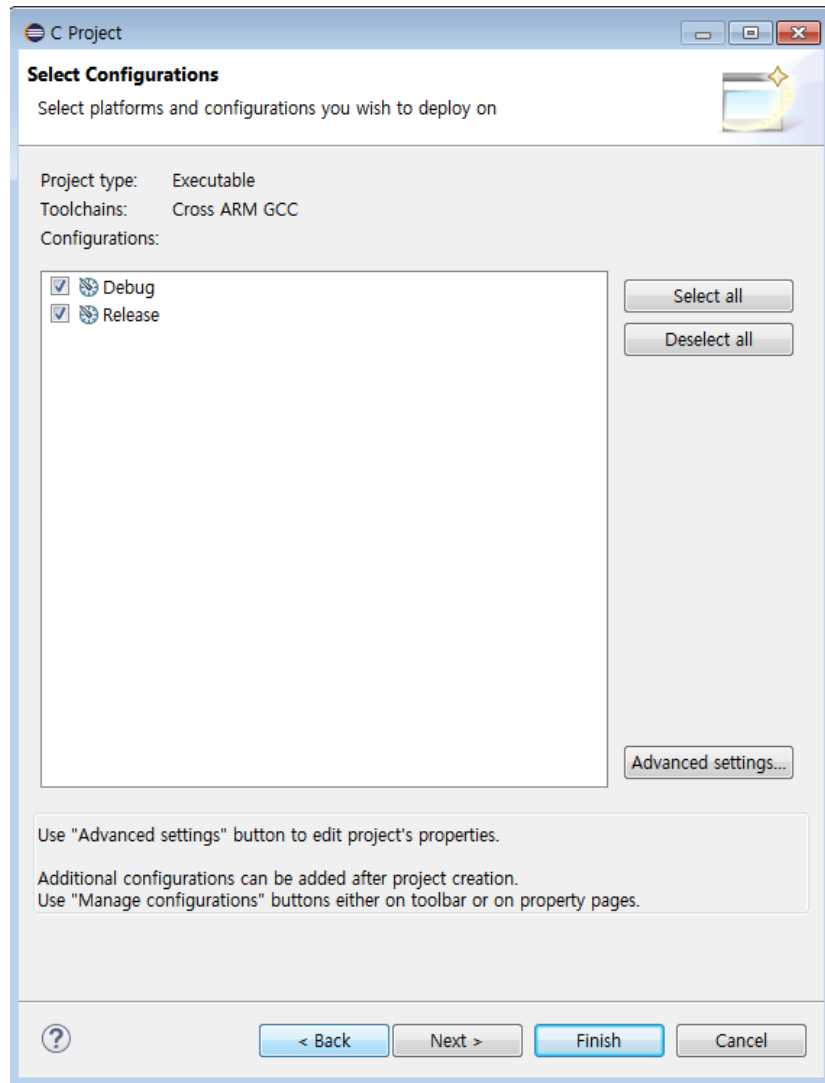
Use link optimizations ☐

? < Back Next > Finish Cancel

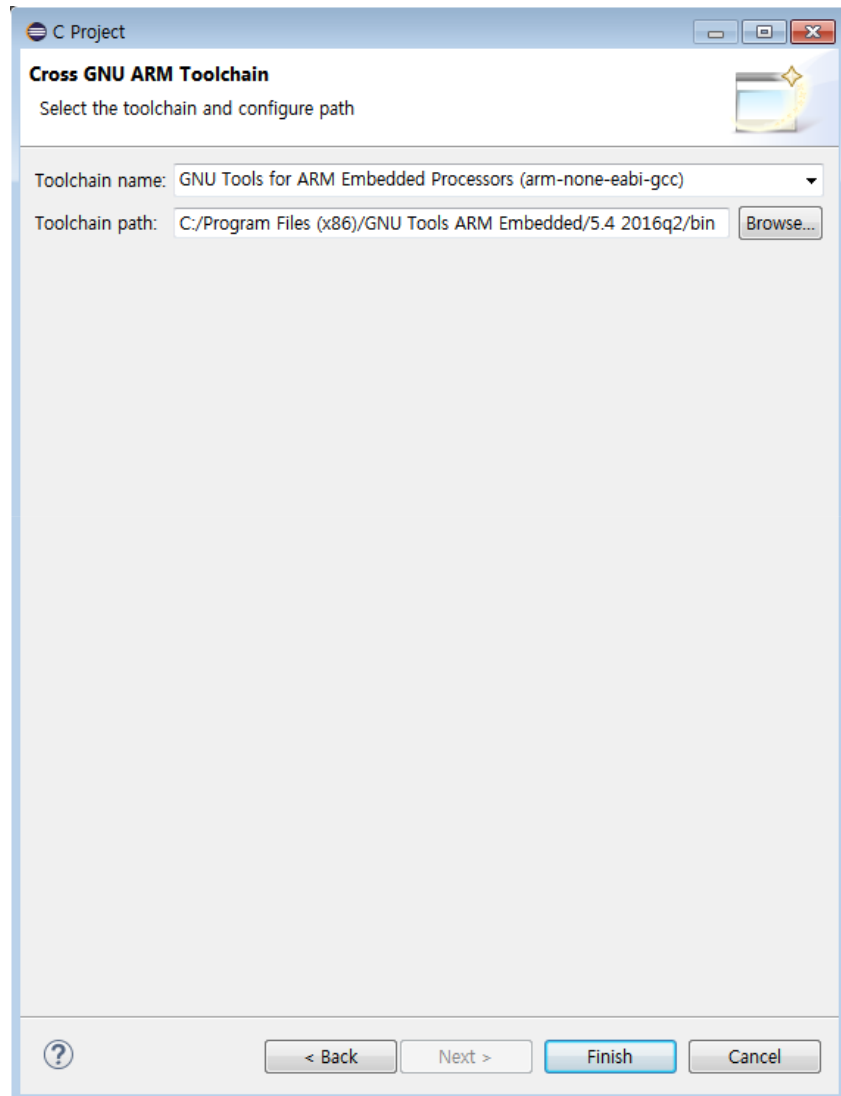
How to



How to



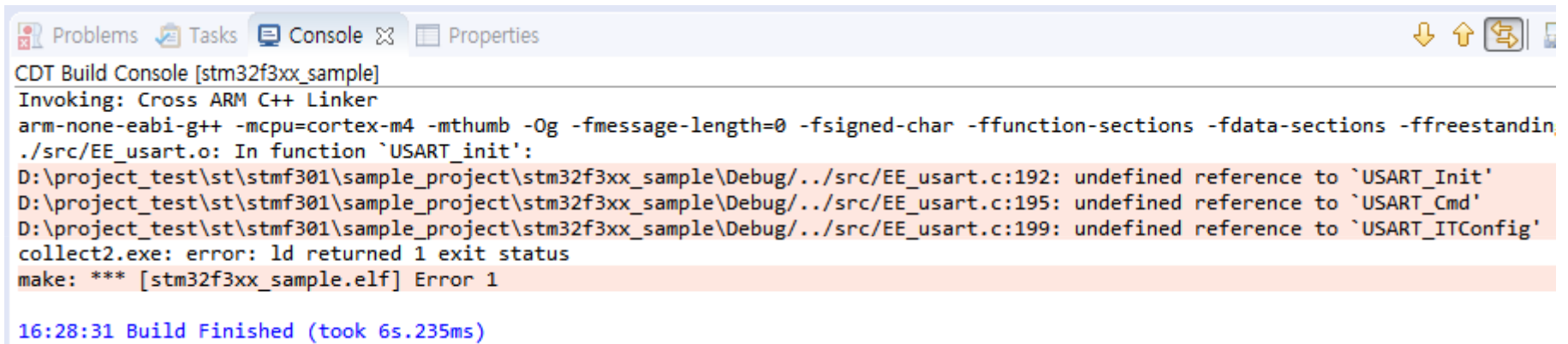
How to



Etc.

Error building cross compile

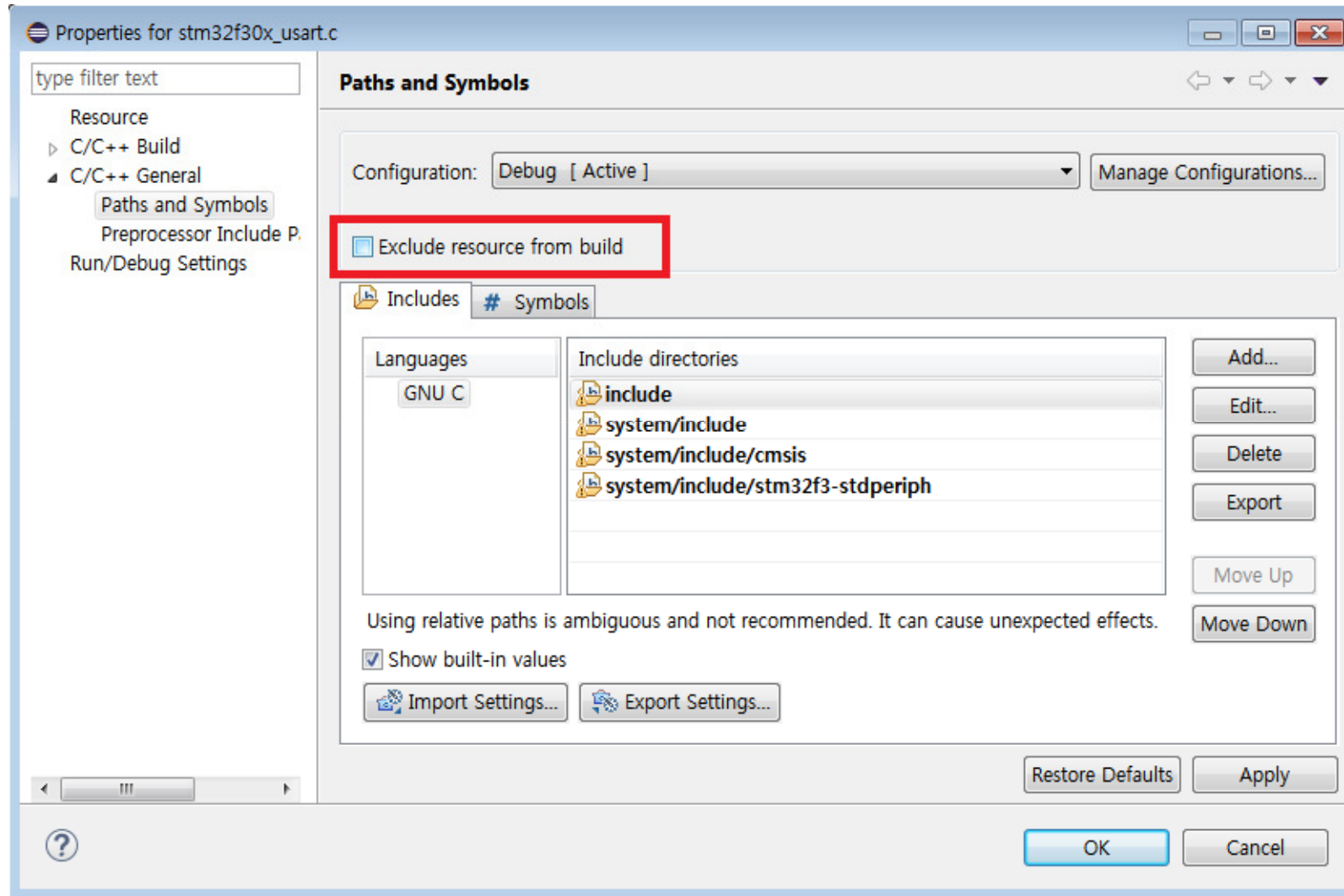
- STM32 library undefined reference



```
Problems Tasks Console Properties
CDT Build Console [stm32f3xx_sample]
Invoking: Cross ARM C++ Linker
arm-none-eabi-g++ -mcpu=cortex-m4 -mthumb -Og -fmessage-length=0 -fsigned-char -ffunction-sections -fdata-sections -ffreestanding
./src/EE_usart.o: In function `USART_init':
D:\project_test\st\stmf301\sample_project\stm32f3xx_sample\Debug\../src/EE_usart.c:192: undefined reference to `USART_Init'
D:\project_test\st\stmf301\sample_project\stm32f3xx_sample\Debug\../src/EE_usart.c:195: undefined reference to `USART_Cmd'
D:\project_test\st\stmf301\sample_project\stm32f3xx_sample\Debug\../src/EE_usart.c:199: undefined reference to `USART_ITConfig'
collect2.exe: error: ld returned 1 exit status
make: *** [stm32f3xx_sample.elf] Error 1

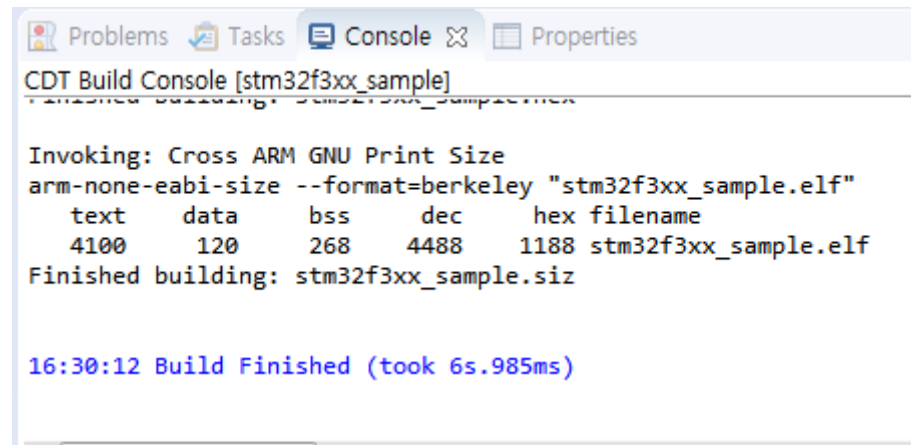
16:28:31 Build Finished (took 6s.235ms)
```


Etc.



Etc.

Build



The screenshot shows the CDT Build Console for a project named 'stm32f3xx_sample'. The console output indicates that the 'Cross ARM GNU Print Size' tool was invoked. It shows the command 'arm-none-eabi-size --format=berkeley "stm32f3xx_sample.elf"' and its output, which is a table of memory usage statistics. The table has columns for 'text', 'data', 'bss', 'dec', 'hex', and 'filename'. The output shows 4100 bytes for text, 120 bytes for data, 268 bytes for bss, a total of 4488 bytes in decimal, and 1188 bytes in hexadecimal. The console also shows 'Finished building: stm32f3xx_sample.elf' and 'Finished building: stm32f3xx_sample.siz'. At the bottom, a status message indicates '16:30:12 Build Finished (took 6s.985ms)'.

```
CDT Build Console [stm32f3xx_sample]
Finished building: stm32f3xx_sample.elf

Invoking: Cross ARM GNU Print Size
arm-none-eabi-size --format=berkeley "stm32f3xx_sample.elf"
  text  data  bss  dec  hex filename
 4100   120   268 4488 1188 stm32f3xx_sample.elf
Finished building: stm32f3xx_sample.siz

16:30:12 Build Finished (took 6s.985ms)
```