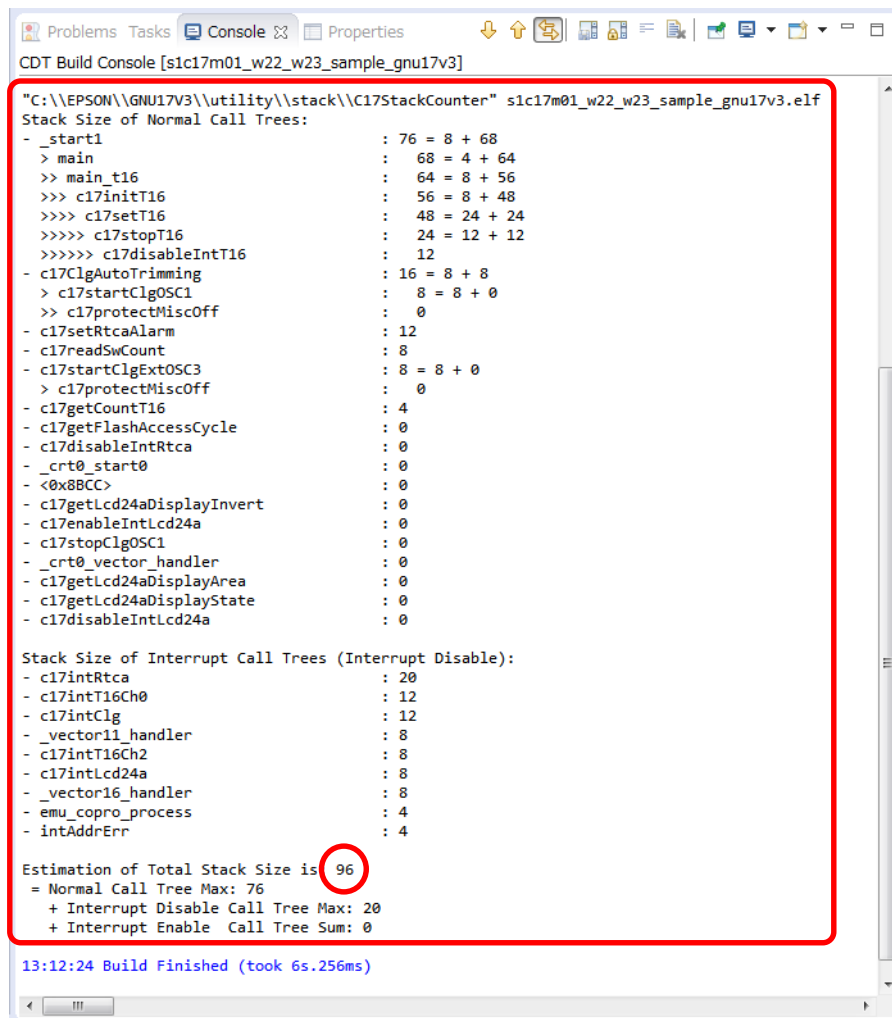


“C17StackCounter” is the stack used amount static analysis tool. The result is displayed in [Console]view after building project.



```
CDT Build Console [s1c17m01_w22_w23_sample_gnu17v3]

"C:\EPSON\GNU17V3\utility\stack\C17StackCounter" s1c17m01_w22_w23_sample_gnu17v3.elf
Stack Size of Normal Call Trees:
- _start1 : 76 = 8 + 68
  > main : 68 = 4 + 64
    >> main_t16 : 64 = 8 + 56
      >>> c17initT16 : 56 = 8 + 48
        >>>> c17setT16 : 48 = 24 + 24
          >>>>> c17stopT16 : 24 = 12 + 12
            >>>>>> c17disableIntT16 : 12
          - c17ClgAutoTrimming : 16 = 8 + 8
            > c17startClgOSC1 : 8 = 8 + 0
              >> c17protectMiscOff : 0
            - c17setRtcaAlarm : 12
            - c17readSwCount : 8
            - c17startClgExtOSC3 : 8 = 8 + 0
              > c17protectMiscOff : 0
            - c17getCountT16 : 4
            - c17getFlashAccessCycle : 0
            - c17disableIntRtca : 0
            - _crt0_start0 : 0
            - <0x8BCC> : 0
            - c17getLcd24aDisplayInvert : 0
            - c17enableIntLcd24a : 0
            - c17stopClgOSC1 : 0
            - _crt0_vector_handler : 0
            - c17getLcd24aDisplayArea : 0
            - c17getLcd24aDisplayState : 0
            - c17disableIntLcd24a : 0

Stack Size of Interrupt Call Trees (Interrupt Disable):
- c17intRtca : 20
- c17intT16Ch0 : 12
- c17intClg : 12
- _vector11_handler : 8
- c17intT16Ch2 : 8
- c17intLcd24a : 8
- _vector16_handler : 8
- emu_copro_process : 4
- intAddrErr : 4

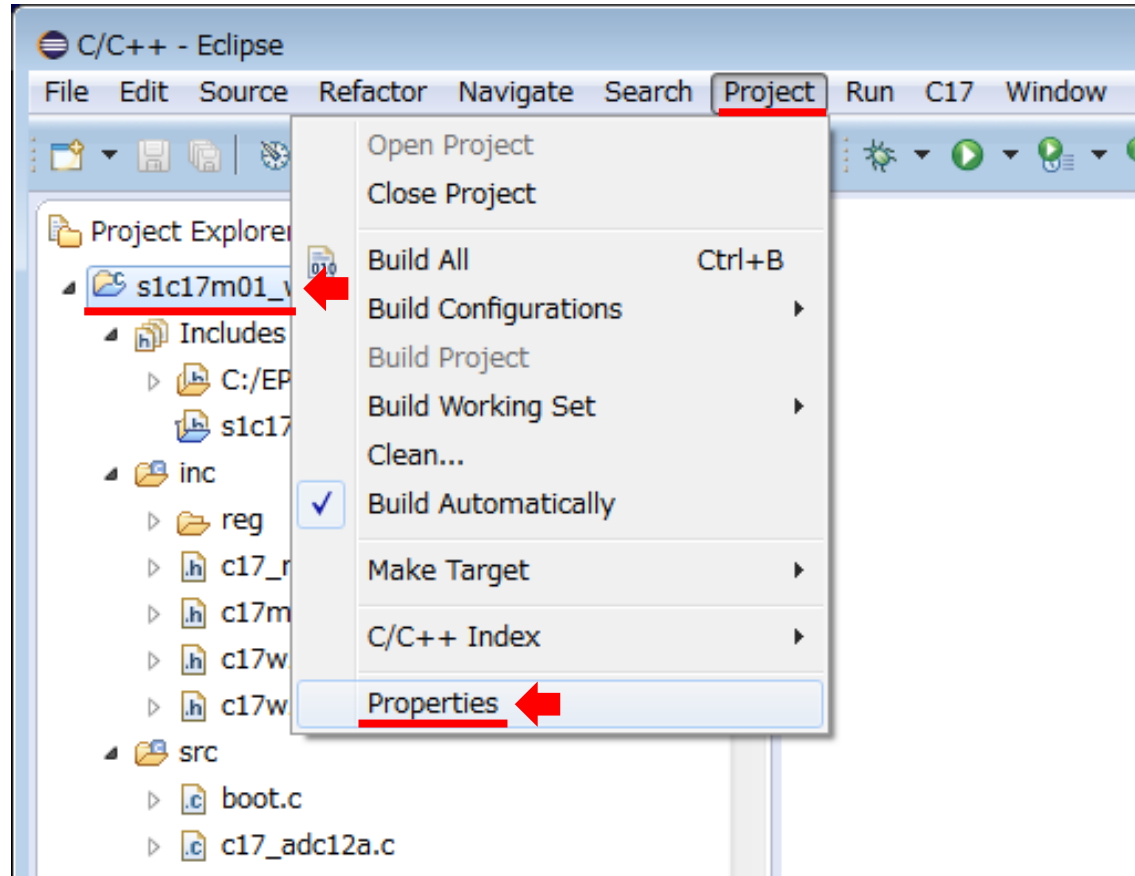
Estimation of Total Stack Size is 96
= Normal Call Tree Max: 76
+ Interrupt Disable Call Tree Max: 20
+ Interrupt Enable Call Tree Sum: 0

13:12:24 Build Finished (took 6s.256ms)
```

Estimation of Total Stack Size is : 96 → 96bytes

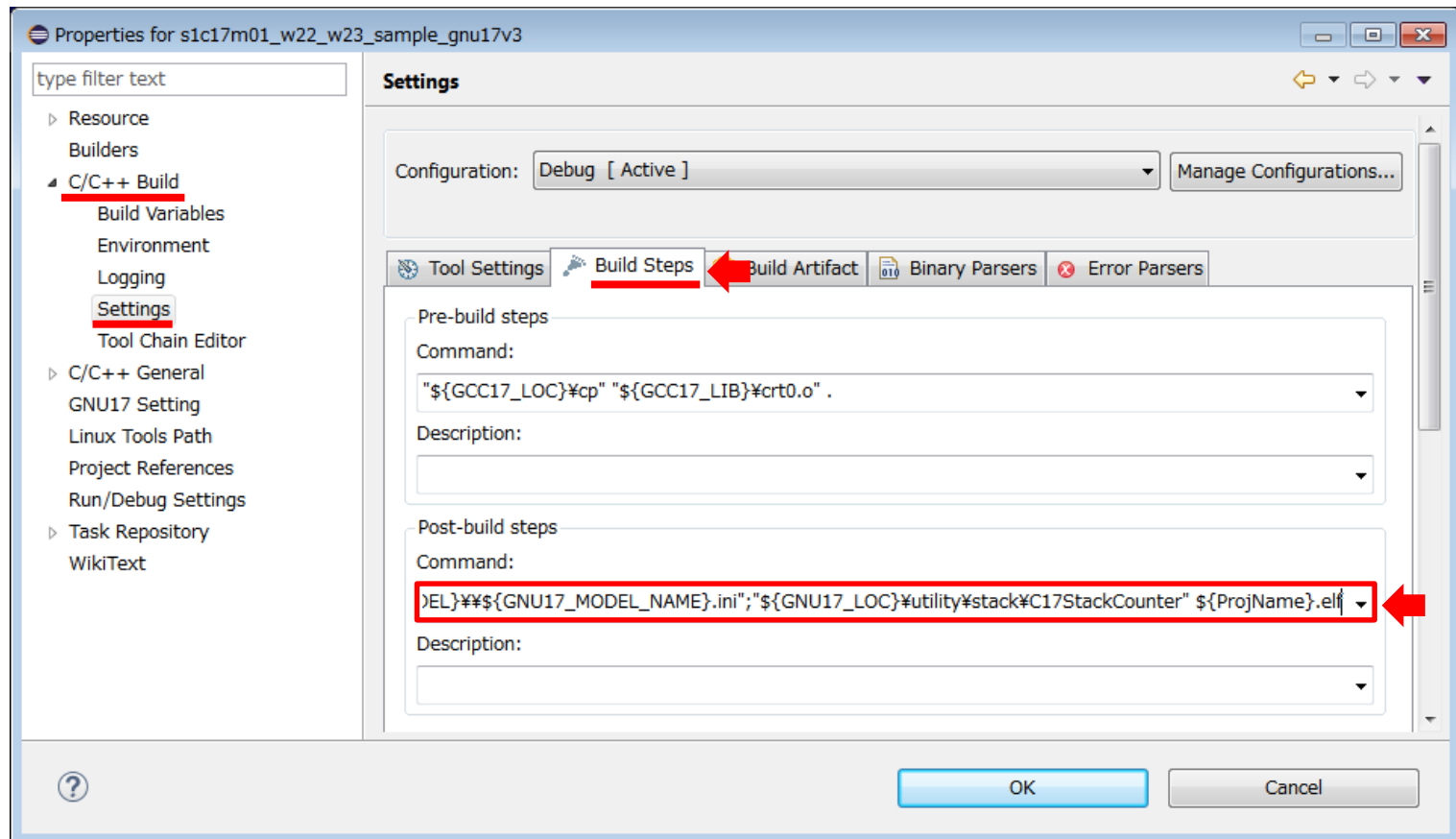
Setup Procedure

1. Please select the target project, and select [Project]>[Propaties].



2. Please select [C/C++ Build]>[Settings]>[Build Steps]tab.
Add the below commands into [Command:] box
*Don't erase original commands, please add them.

;"\${GNU17_LOC}¥utility¥stack¥C17StackCounter" \${ProjName}.elf



Notes: In below cases, it cannot analyze complete used amount.

- Describing the function exit processing with different ways from one of gcc by assembler.
- Using tables or variables for jump address.
(Except Vector table)

In this case, the unconnected functions are displayed in “Stack Size of Unsolved Functions and its Callees”, and below note is displayed.

Note: This program contains some unsolved calls.