

1 Creating program

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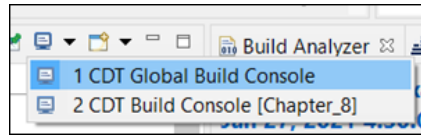
2.1 Build proble

2.2 How to enab

2.3 How to run '

2.4 Build's clean

- When running Build All, here's a way to check for build errors:
 - Set the console to the "CDT Global Build Console"
 - To select it, click on the console icon's dropdown button:



- Before running Build All, clear the console (right-click and select "Clear")
- After running Build All, check the console messages for errors.
 - In the console, search for "errors" to check the projects were built correctly
 - Right-click and select "Find/Replace"

2.4 Build's clean fails, e.g., "No rule to make target 'clean'"

- Problem:
 - In STM32CubeIDE, when using build or clean, the following error may be encountered:
 - "make: *** No rule to make target 'clean'. Stop."
 - This error can be ignored

```
CDT Build Console [Chapter_8]
20:53:42 **** Clean-only build of configuration softwareTimers for project Chapter_8 ****
make -j8 clean
make: *** No rule to make target 'clean'. Stop.
"make -j8 clean" terminated with exit code 2. Build might be incomplete.

20:53:42 Build Failed. 1 errors, 0 warnings. (took 138ms)
```

- Additional information:
 - Build and clean are implemented with make.
 - The problem is encountered when clean is run twice in a row, without a build between the cleans
 - This includes using "Clean All", or "Clean" for the active project-configuration
 - It also includes the clean used in "Build All", or "Build" for the active project-configuration
 - The problem is due to clean deleting the project-configuration's make-file.
 - For a subsequent clean (e.g., "make -j8 clean"), there's no make-file, and thus the error message.
 - The error message "No rule to make target 'clean'" is misleading here. It incorrectly implies there is a make-file, with a missing target.
 - For each project-configuration, its make-file is created when build is run.
 - The make-file is placed in the project-configuration's build directory, e.g.,
 - C:\projects\packtBookRTOS\Chapter_8\mutexExample
 - Clean deletes everything in the build directory, including the make-file

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