STM32CubeIDE basics

Projects management

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STM32 CubeIDE

STM32CubeIDE – projects management

Objective:

- Demonstrate how we can manage projects within STM32CubeIDE workspace
- Explore projects settings
- Demonstrate how to share the project with others using Import/Export features
- Switching to another workspace
- Resetting perspective

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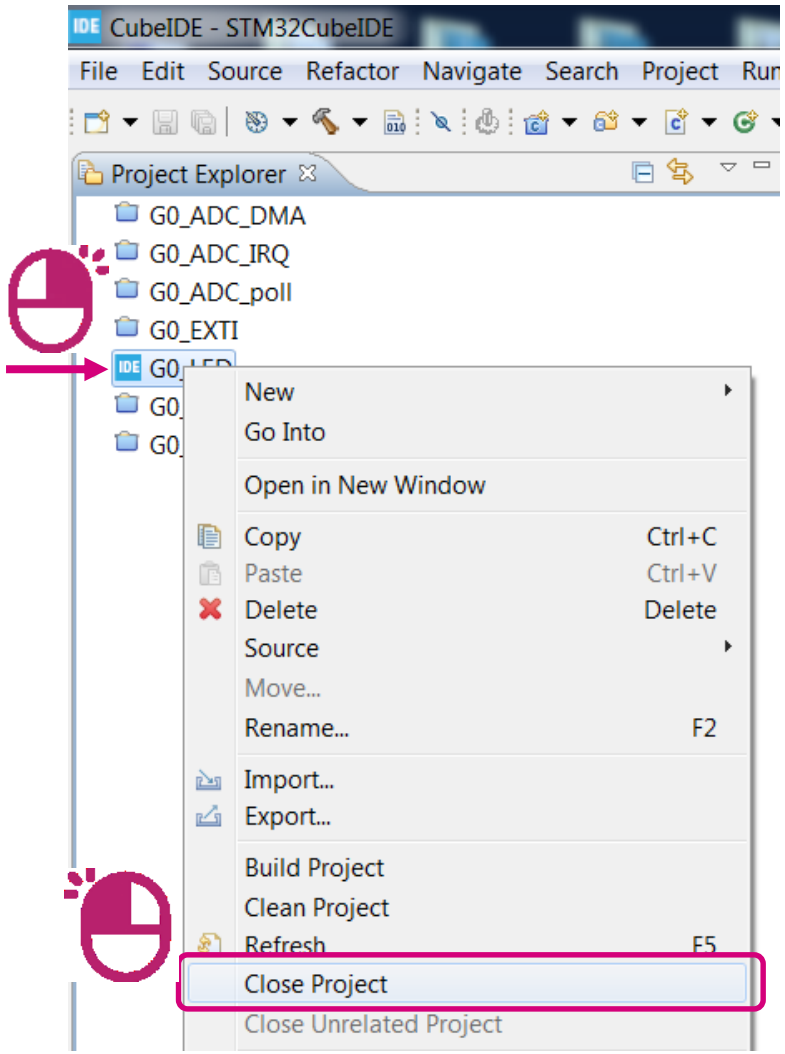
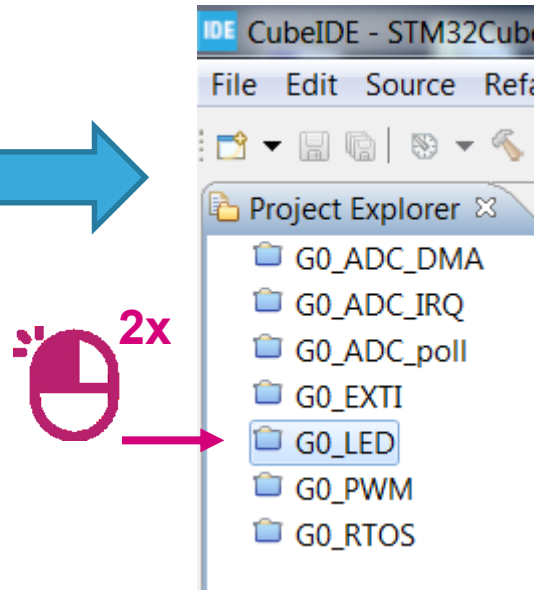
Projects: open, close, delete, switch

- Within one workspace we can have several projects.
- To make opened project active, just highlight its name
- Time open closed project double click (left button on mouse) on its name
- To close the project (and all its related sources),click right button on mouse and select “Close Project” from menu (project will be not deleted)
- To delete project click on the project name (to make it active), then click either Delete key on the keyboard of select Delete option from scroll down menu once click right button on mouse over active project name

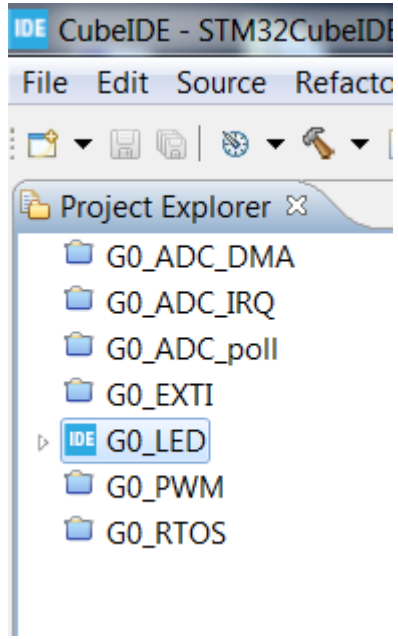
Projects: open, close

- Closing and opening a project





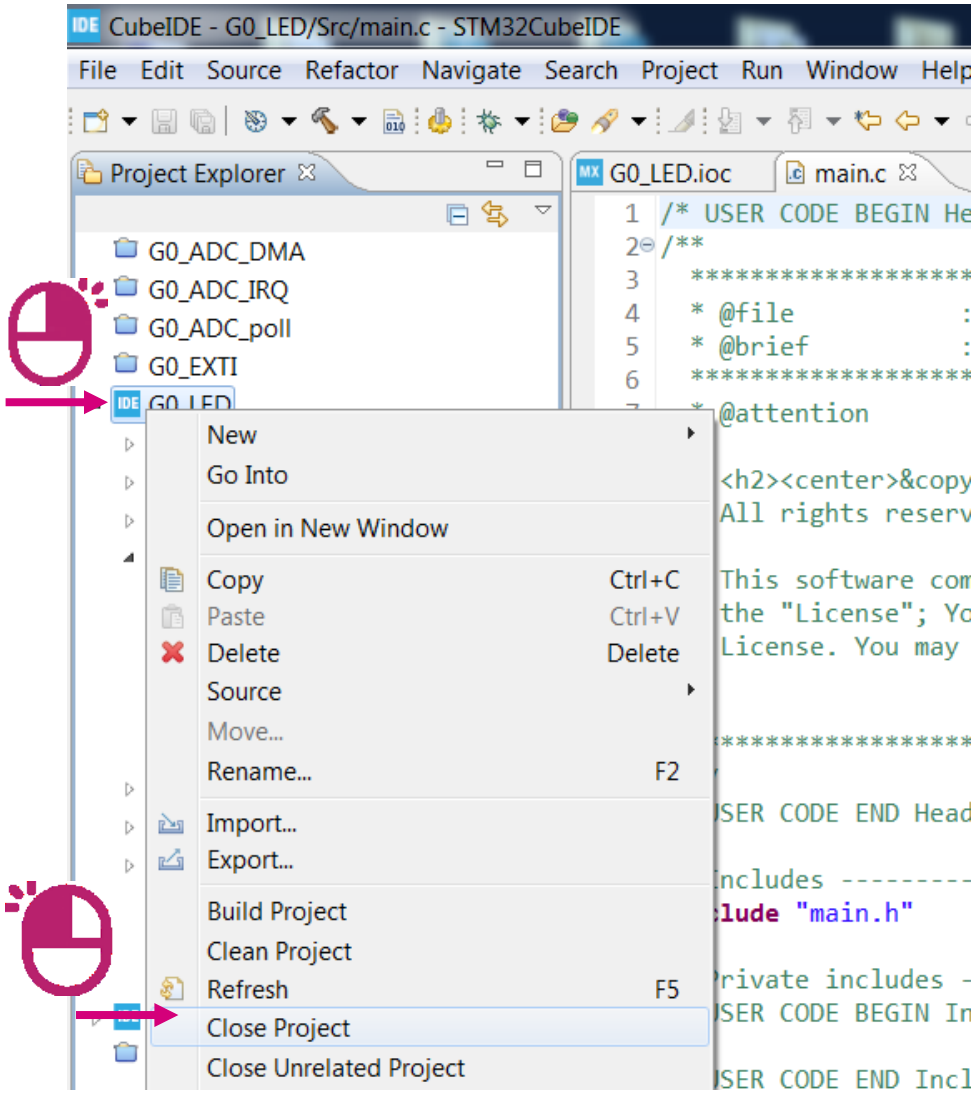
G0_LED project closed

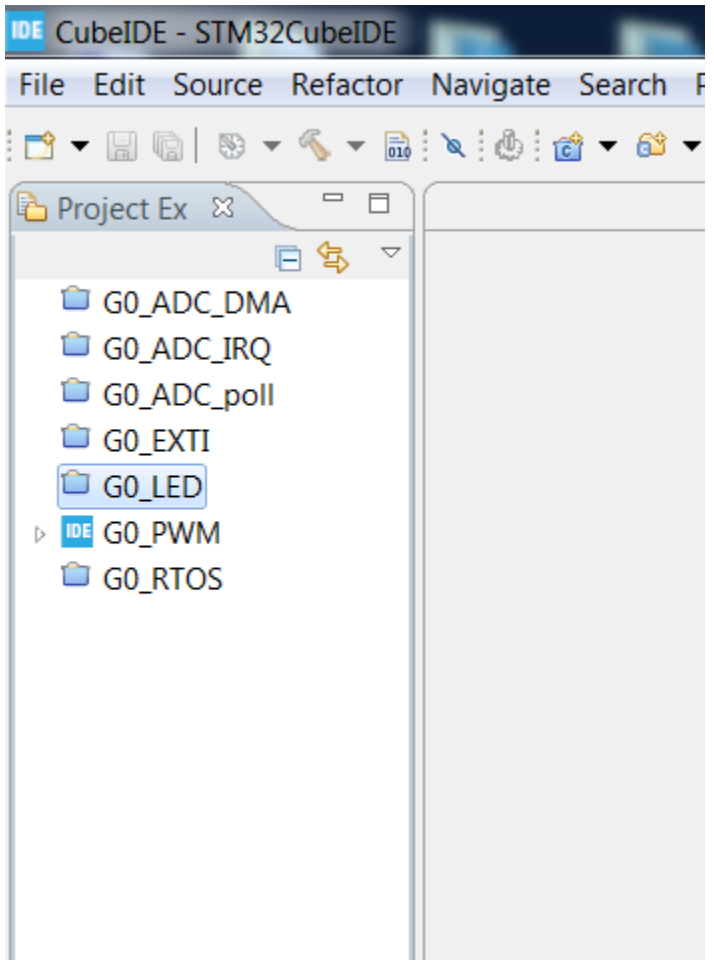


G0_LED project opened and active

Projects: open, close, delete, switch

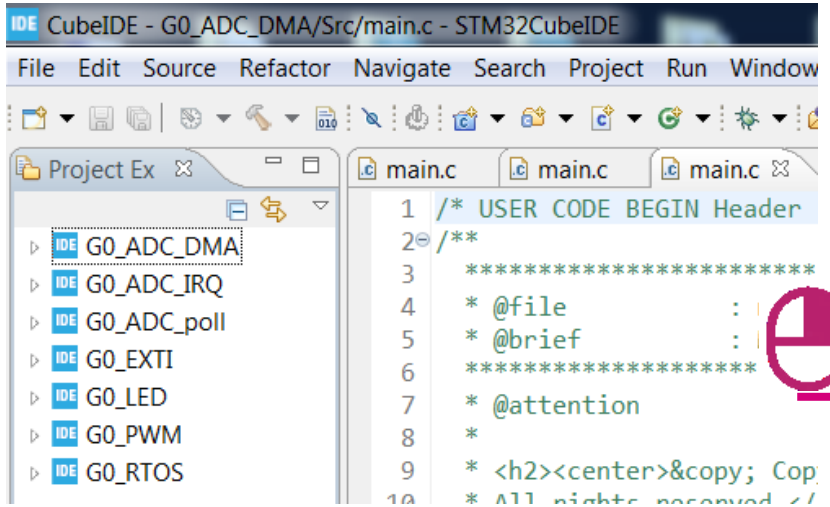
- When we close the project, all its opened files are closed automatically

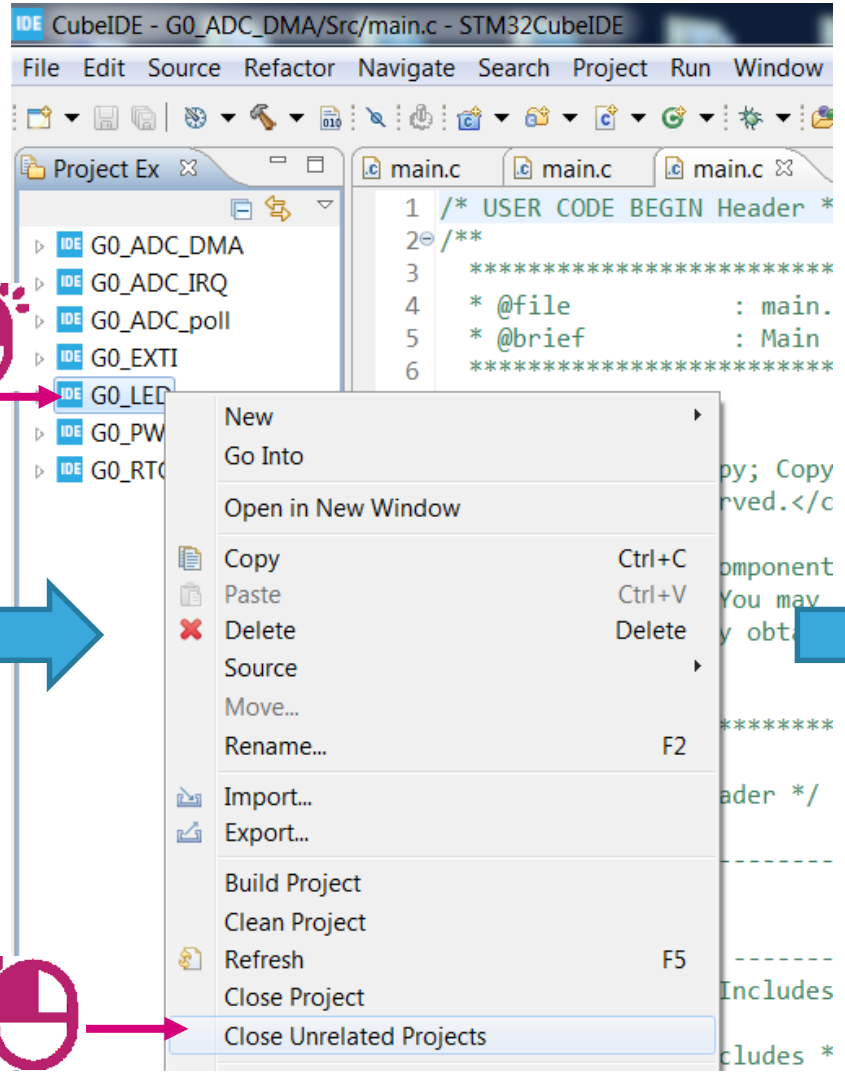


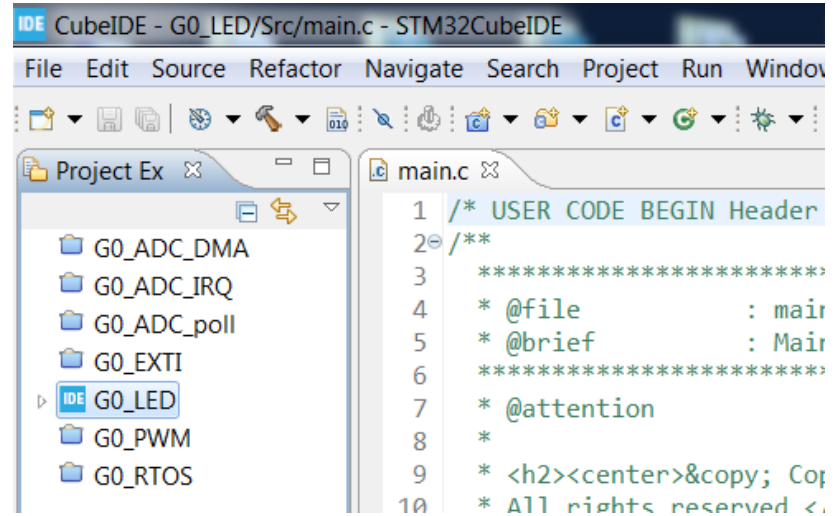


Projects: open, close, delete, switch

- Closing all unrelated projects and unrelated files to G0_LED project





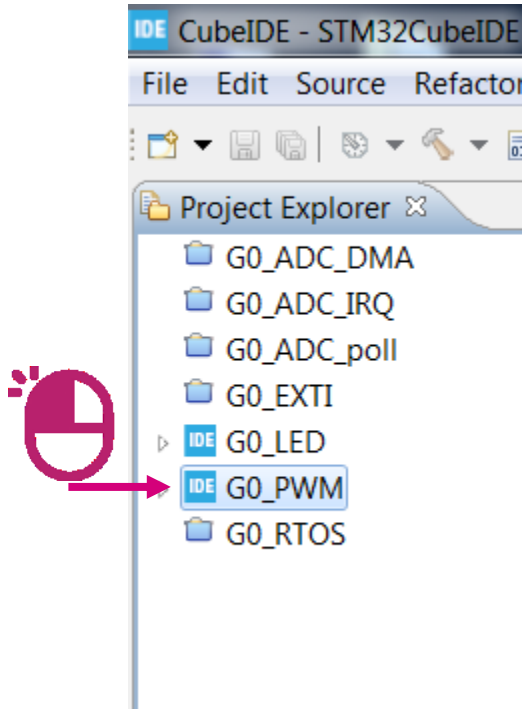


All projects opened, G0_ADC_DMA active, three different main.c files opened (from different projects)

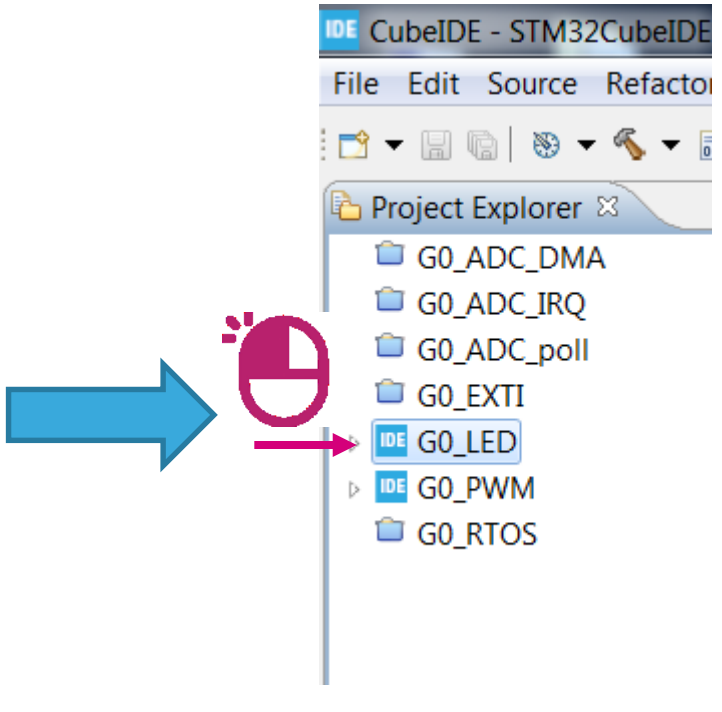
Only G0_LED project opened (and active) with its main.c file

Projects: switching between projects

- Only one project can be active at the time
- To switch from one project to the other click on its name
- Be careful, as all opened files related to not active projects are not closed automatically on active project switch – it is necessary to do it either manually or use “Close Unrelated Projects” option (have a look at next slide



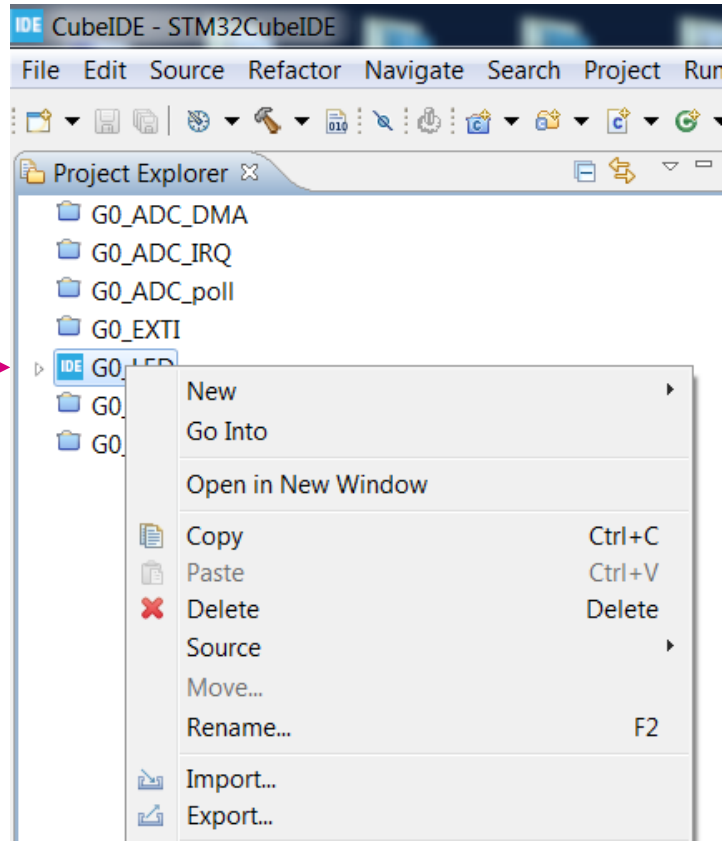
G0_PWM is
an active project

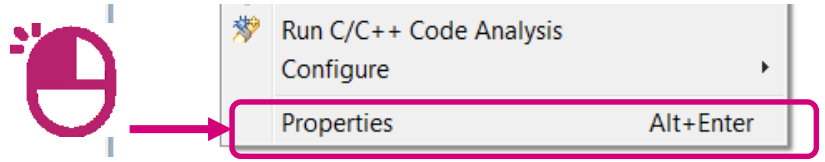


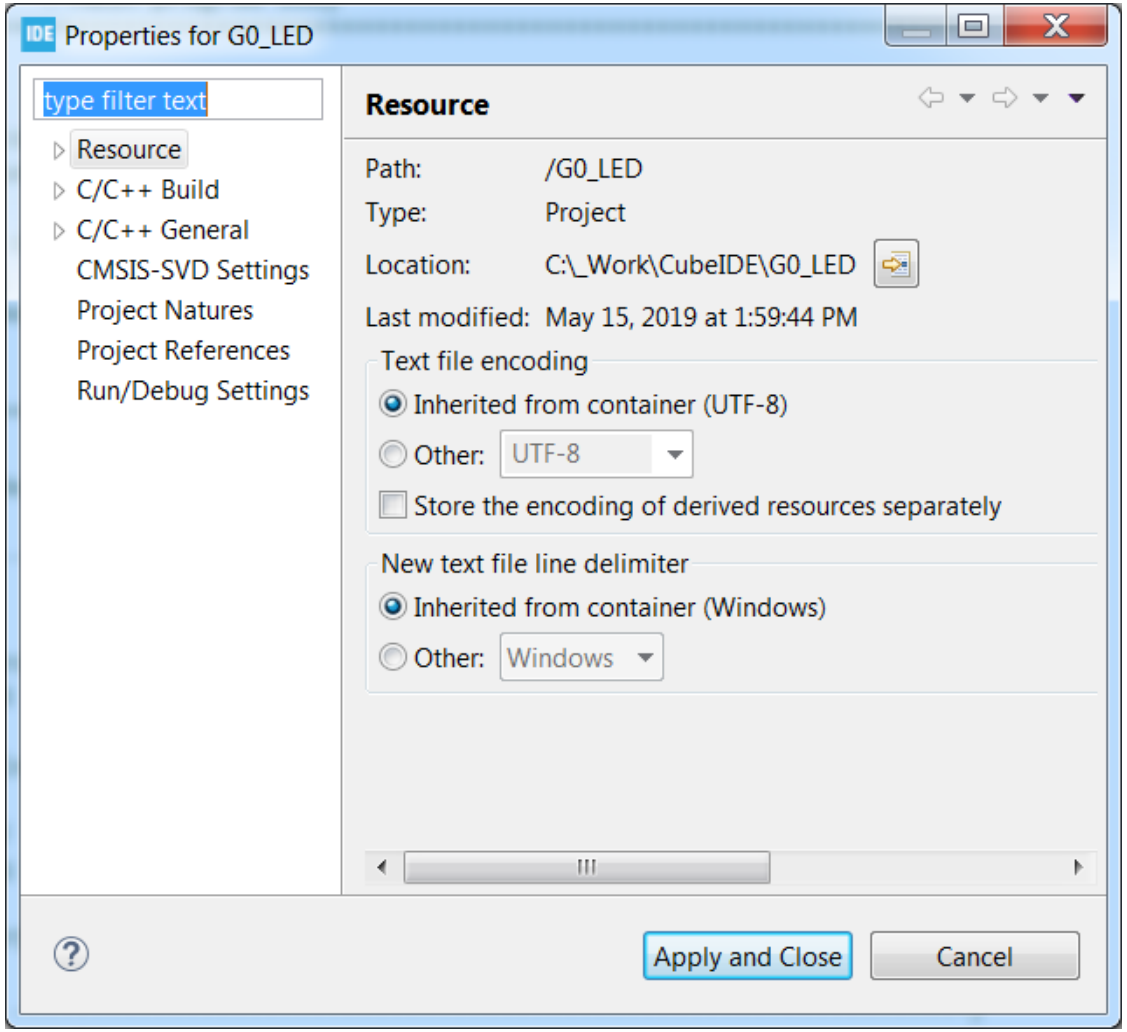
G0_LED is
an active project

Projects properties

- Display active project properties



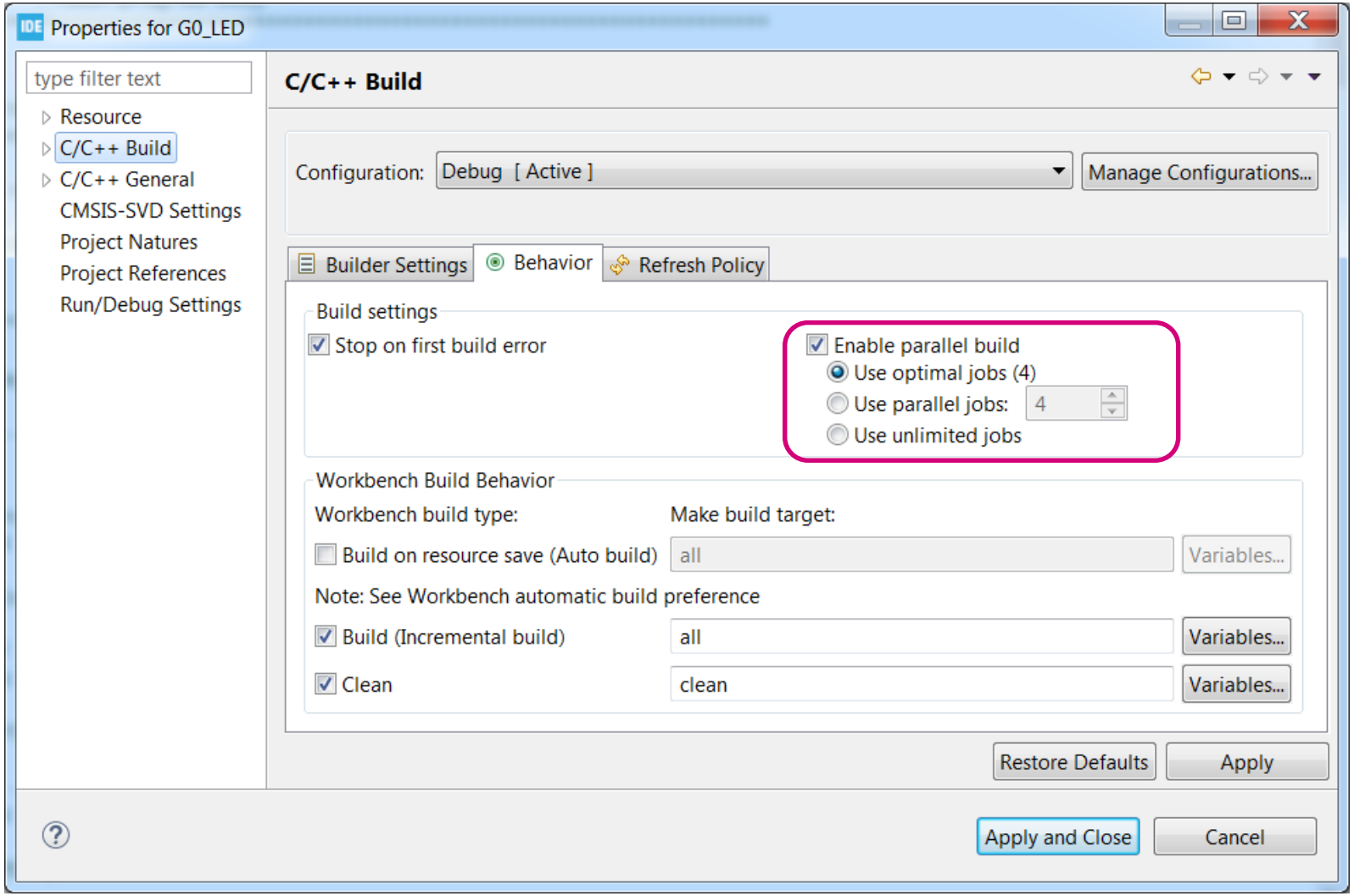




Projects properties

parallel build configuration

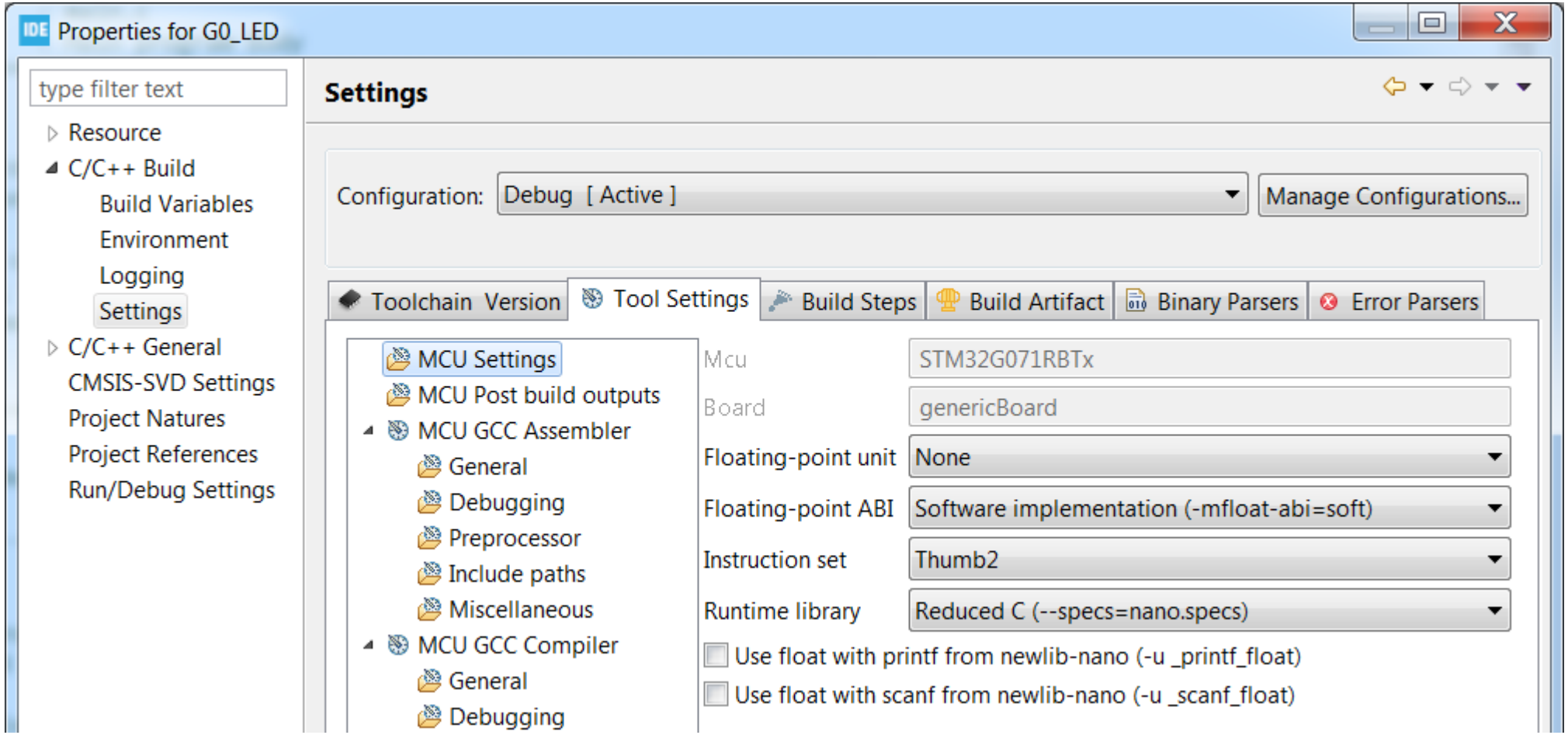
- Configuring parallel build



Projects properties

Tool Settings

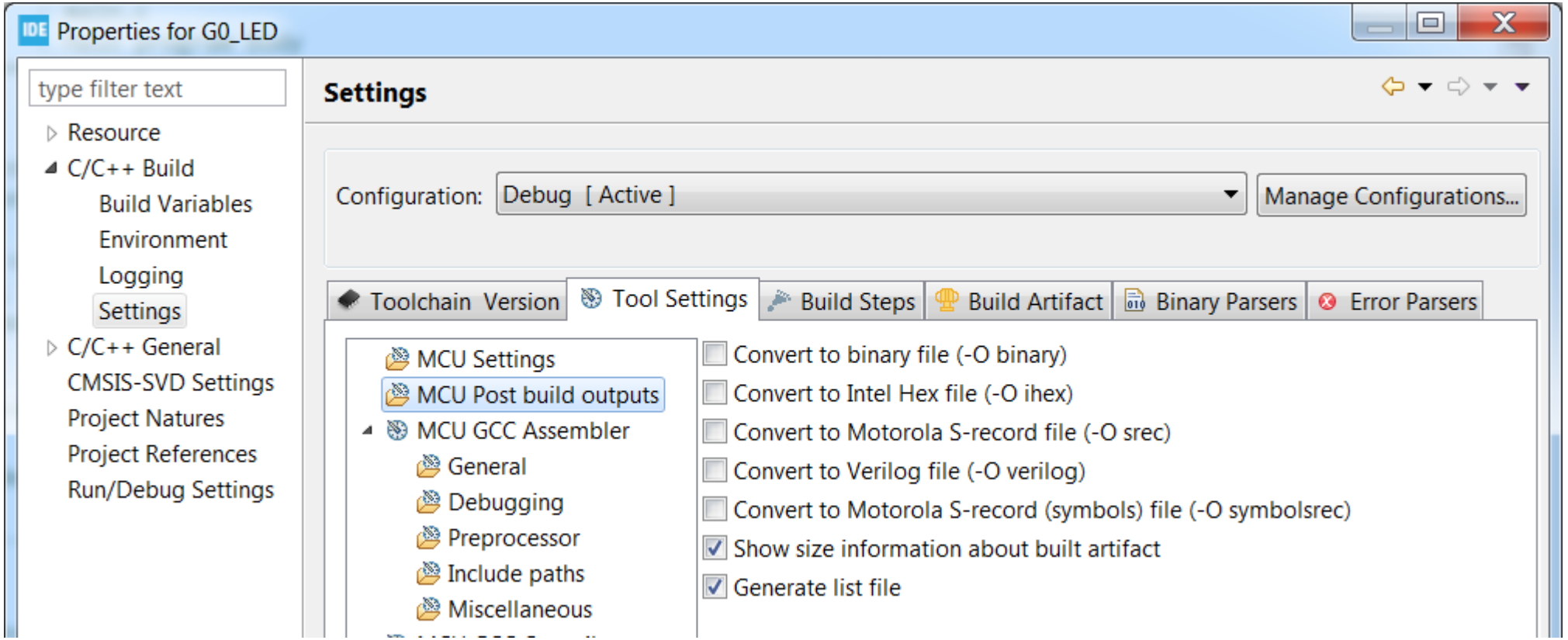
- Configuration of MCU settings



Projects properties

Tool Settings

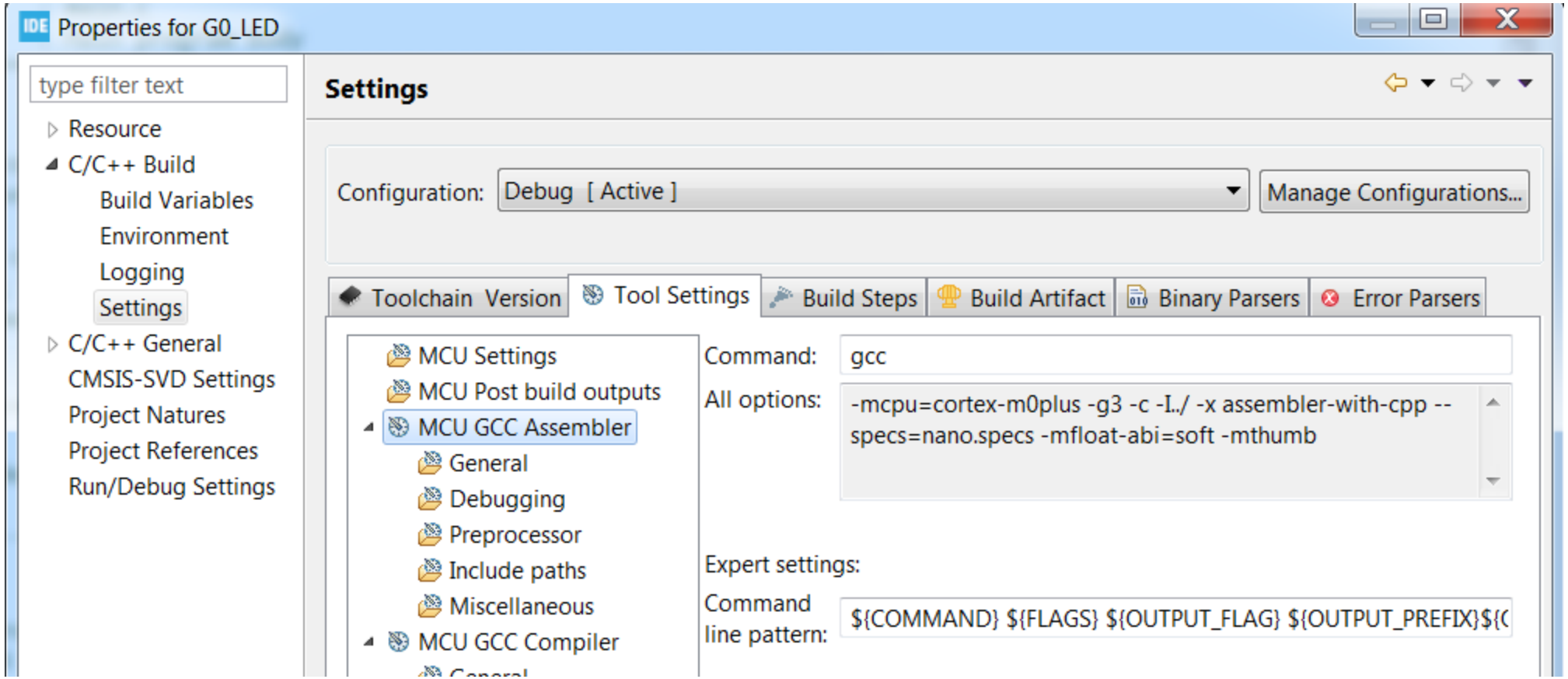
- Configuration of post build settings



Projects properties

Tool Settings

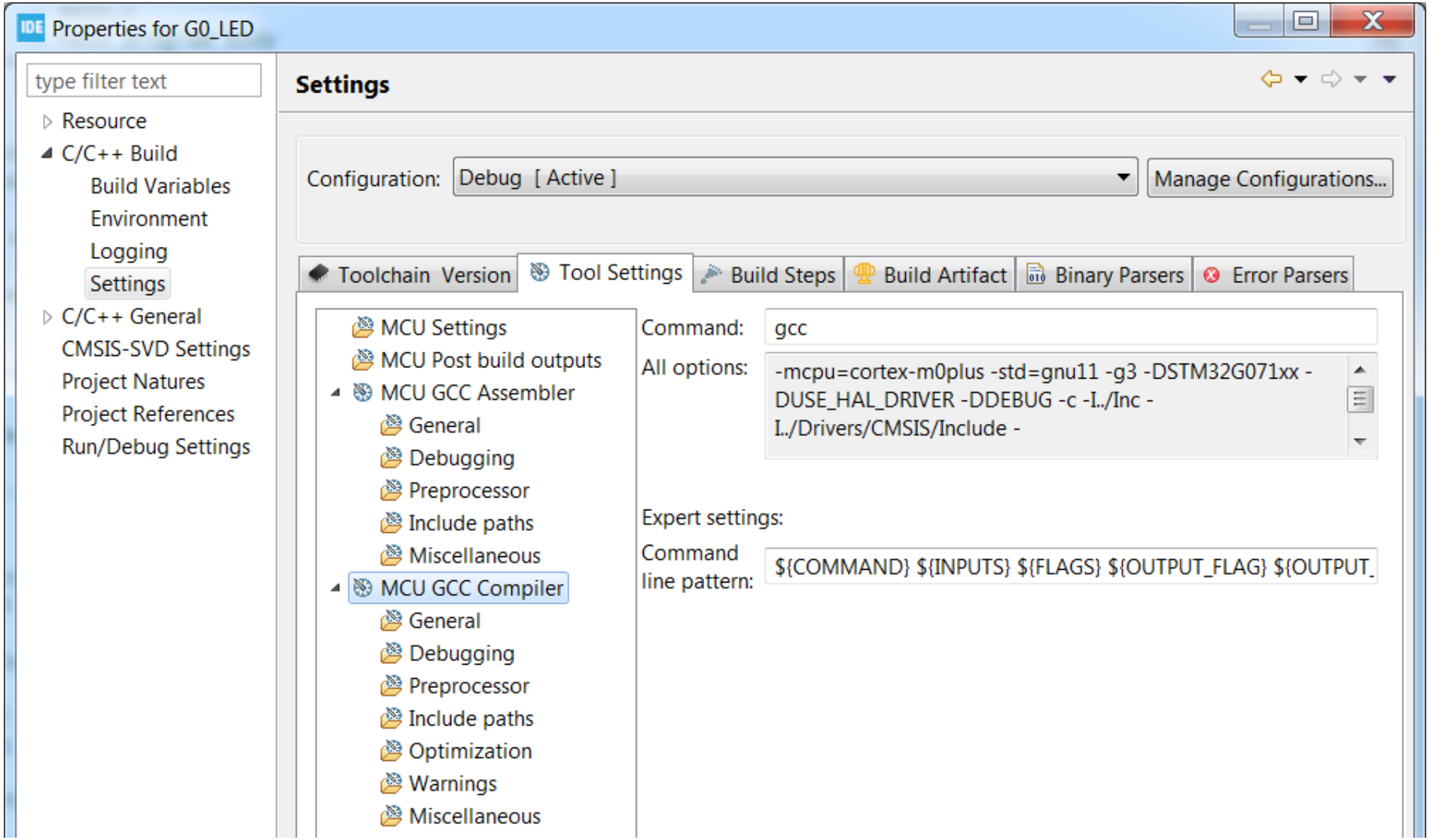
- Configuration of GCC Assembler settings



Projects properties

Tool Settings

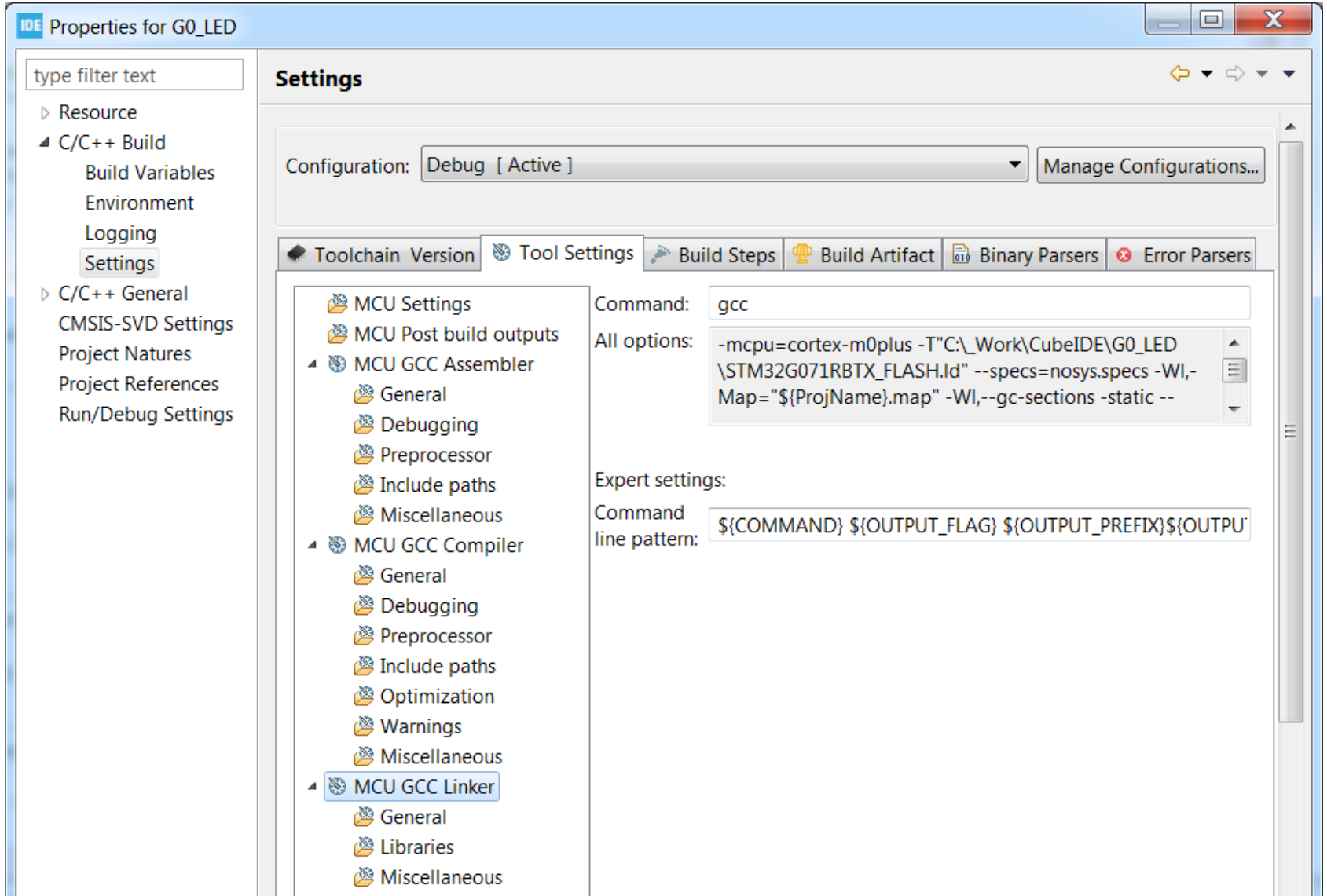
- Configuration of GCC C Complier settings



Projects properties

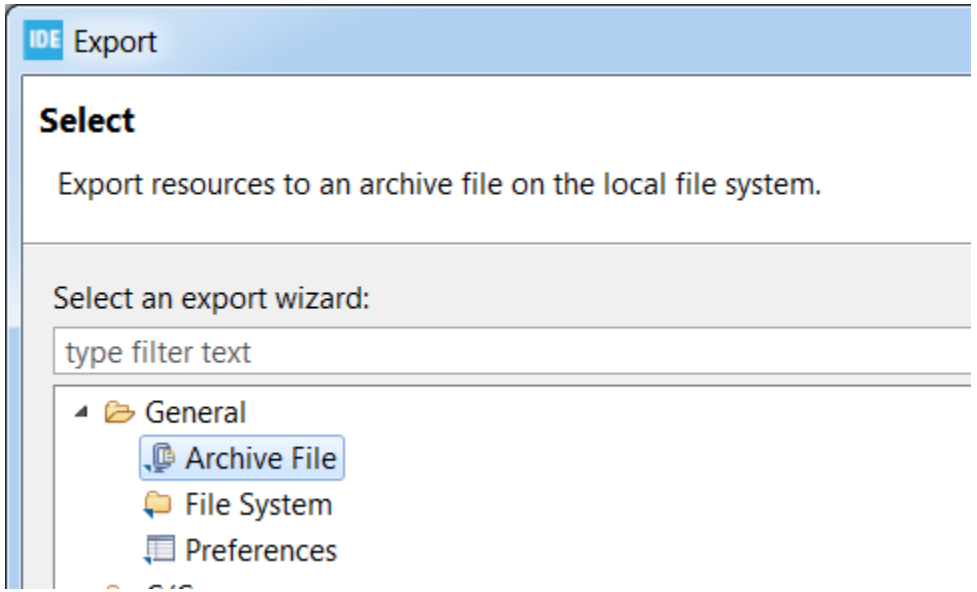
Tool Settings

- Configuration of GCC Linker settings



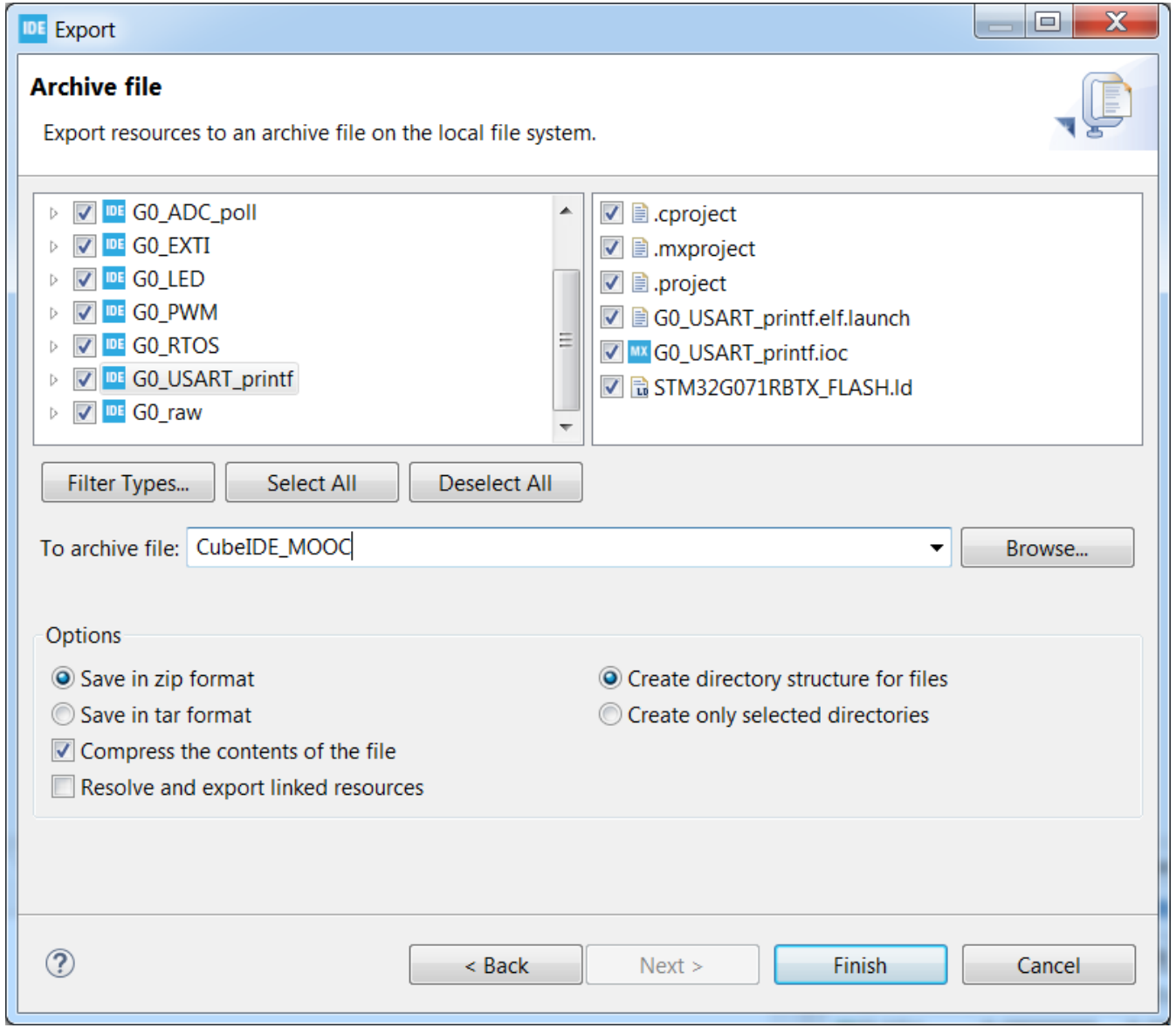
Exporting projects

- Export option is used to share the project with others
- It is possible to export only active projects in current workspace. Closed ones are not visible within export
- In order to export some project from the workspace, select File -> Export which displays an Export window



Exporting projects

- Within Export window we need to perform the following steps:
  - Select way we would like to store exported projects: one zip file, project file system, project settings only
  - Specify which opened projects from current workspace we would like to export
  - Specify the location (or .zip file name) where project(s) should be stored



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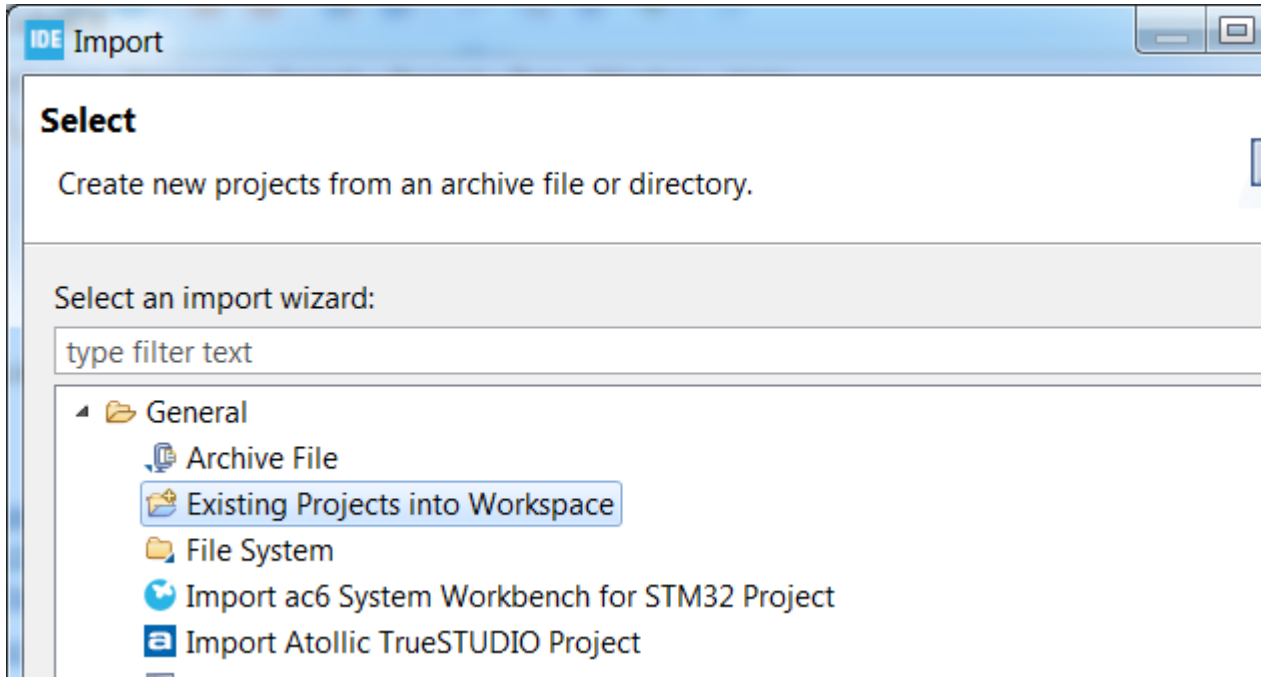
Importing projects

- Import option is used to collect the project from others or from repository
- Projects can be stored as complete file systems or compressed files (.zip)
- In order to import some project to the workspace, select File -> Import which displays an Import window



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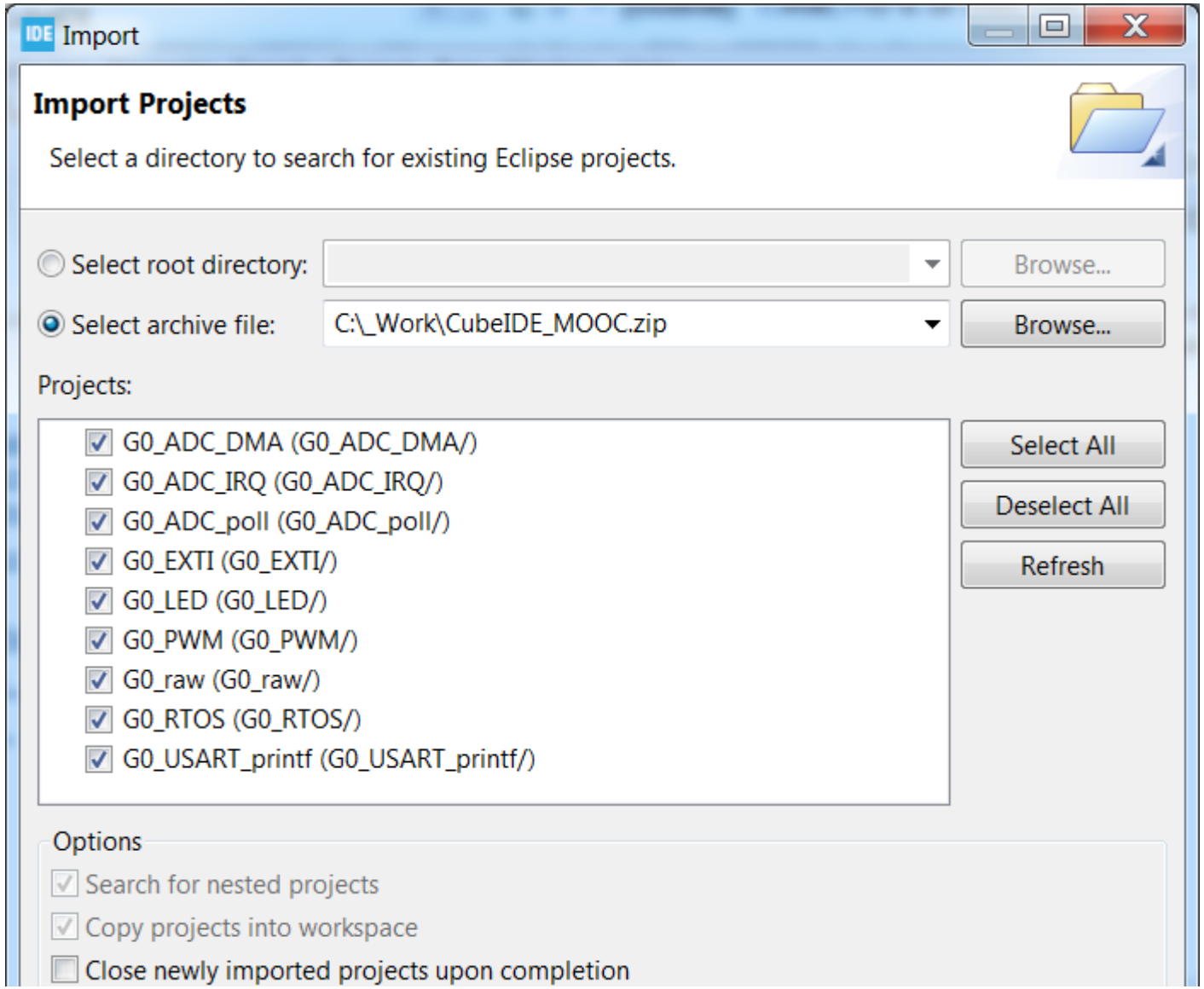
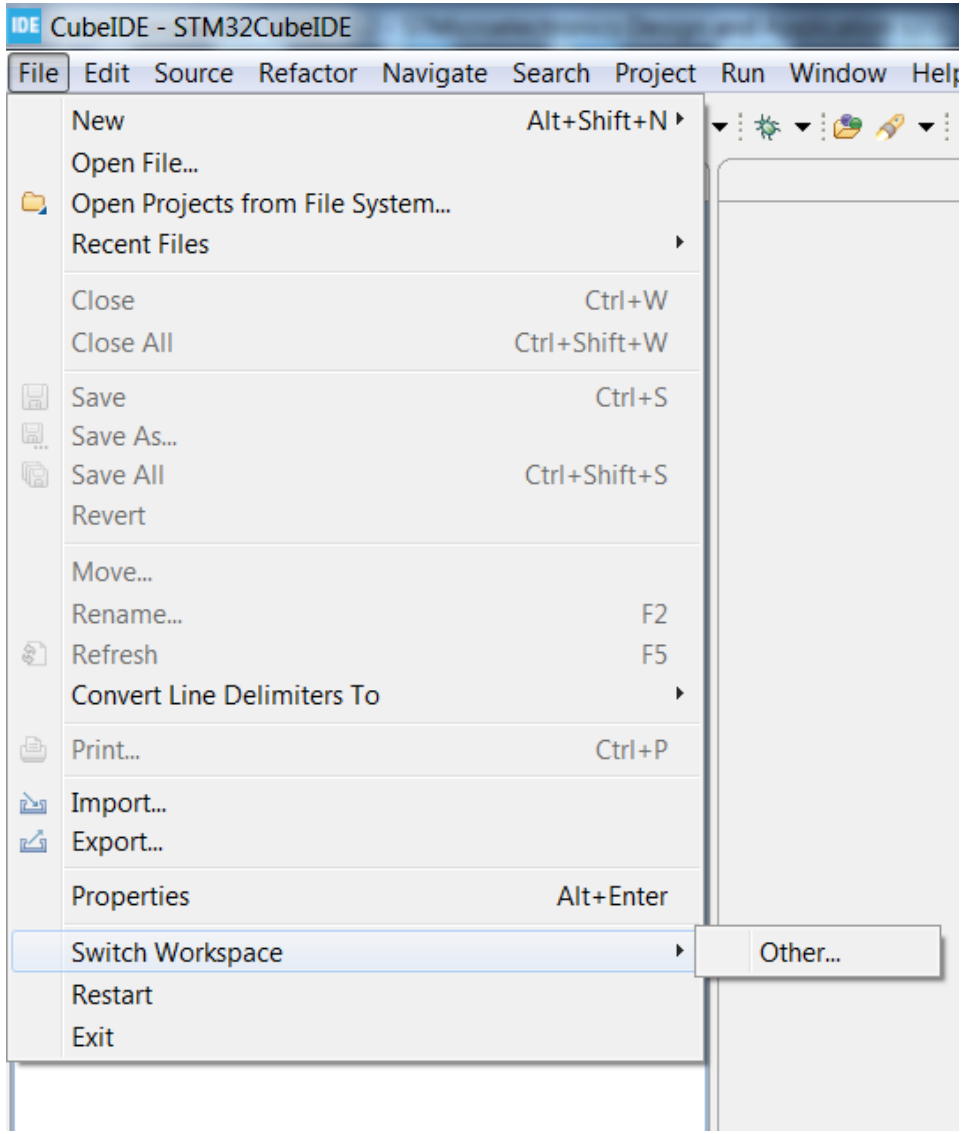
Importing projects

- Within Import window we need to perform the following steps:
  - Select way we would like to import exported projects: one zip file (archive file) or project file system,
  - Specify which projects within selected repository should be imported
  - Press Finish button
- All selected projects would be automatically added to current workspace



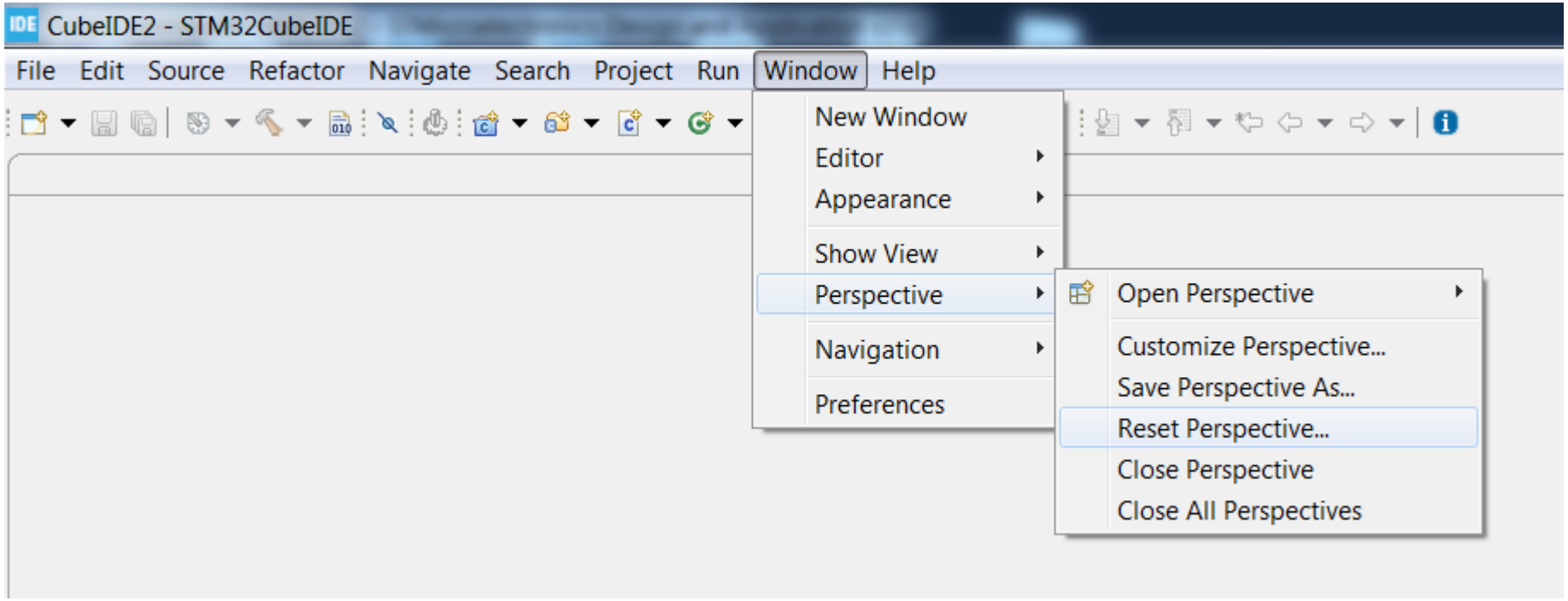
Switching to another workspace

- To switch from active workspace to new one, please select File->Switch Workspace
- Select Other to select the location of new workspace or select one from the list



Resetting the perspective

- In case it is necessary to restore original configuration of the workspace windows it is enough to go: Window->Perspective->Reset Perspective



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Thank you

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