

## Cheat-Sheet: running build, Ozone debugger, and SystemView Recorder

- Using STM32CubeIDE to build a project configuration:

- Example-programs, projects and configurations:
  - The book's example programs are organized by chapter, and each *chapter-folder* is a project. In a chapter-folder the *example-programs* (C-files) are in the `src` folder. Each project has one or more *configurations*. A configuration is typically associated with one example program.
- How to build a configuration
  - Make the intended configuration active:
    - Right-click on the chapter-folder, and select
    - "Build Configurations": "Set Active"
  - Build the configuration:
    - Right-click on the chapter-folder, and select "Build Project"
- How to add a new program to a chapter-folder (project)
  - Do not simply add a program to the `src` folder, as it will likely corrupt the build scripts.
  - Instructions for adding a new program are in the web-page on [STM32CubeIDE](#).

- Using Ozone to load the executable on the board, and run it:

- Connect the USB cable to the board
- Configure the `.jdebug` file, in the chapter-folder:
  - Fix the bugs in the file, as described in the study-guide's web-page on [Ozone](#).
  - Set the `File.Open()` parameter to the path for the configuration's ELF file, e.g.,

`File.Open`

`("C:\projects\packtBookRTOS\Chapter_7\TaskCreationBuild\Chapter_7_TaskCreationBuild.elf")`

- Open Ozone, and load the `.jdebug` file:
  - Click on "Open Existing Project" and select the `.jdebug` file.
- Load the ELF file onto the board:
  - On the toolbar, click on the drop-down button, and select "Download & Reset Program"
- Run the program (ELF file)
  - On the toolbar, click on the play button ("Resume program execution")

- Using SystemView Recorder:

- Start SystemView
  - When SystemView can be run, relative to running the program (ELF file) on the board:
    - SystemView can be started at any time
    - SystemView Recorder should not be started until after the program runs
- The "Interface Speed" apparently should be set to 50000 kHz.
  - This is described in the study-guide's web-page for [Chapters 4-6](#).
  - On the toolbar, click on: Target: J-Link: "Recorder Configuration"
- To run the Recorder:
  - On the toolbar, click on the run button ("Start Recording")
- To see the messages generated by `SEGGER_SYSVIEW_PrintfHost()`:
  - Click on the Terminal tab
- To make the timestamp format consistent among the windows:
  - On the toolbar, click on: View: "Display recording time"

Login

Add a comment

M ↓ MARKDOWN

☐ COMMENT ANONYMOUSLY

ADD COMMENT