

Setup VS Code for OS161

Install in your working machine the most appropriate VS Code release. For Ubuntu, you can follow [THESE](#) instructions.

To sum up, it is possible to install VS Code directly from the Software Center of your OS, manually download the appropriate package .deb from [HERE](#) and then install it via `sudo apt install ./<file>.deb`, or through the snap package manager.

Once VS Code is available, add the C/C++ extension from its plugin marketplace.

Copy the attached hidden folder .vscode in `home/<user>/<os161-folder>`

Run VS Code and open the `<os161-folder>` folder within the IDE.

Unless you changed something in the path structure or during install, the `<os161-folder>` folder should be simply named `os161` in your system.

Usage

There are five tasks you can run to automatize some basic operation. You can run them from the command palette: `CTRL+SHIFT+P > Run Task > <choose_task_to_run>`

- **Copy Config:** Copy the DUMBVM config creating a new named configuration
- **Run Config:** Start the setup for a given configuration
- **Make Depend:** Add dependencies to the appropriate folder
- **Build and Install:** Compile the new version and copy the new executable in the appropriate folder
- **Run OS161:** Start the system in debug mode from within VS Code

To enter debug mode, press F5 (or use the command from the contextual menu). Make sure to start sys161 in debug mode before launching your debug session.

Acknowledgements

The configuration files and their usage are inspired from Thomas Cristofaro's contribution [\[github\]](#)