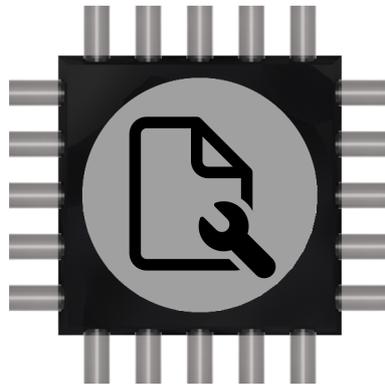




Hochschule  
Augsburg University of  
Applied Sciences

# *ParaNut*: Configuration Tool

User Manual



Daniel Bortkevych, Oleg Murashko, Haris Vojic

Hochschule Augsburg – University of Applied Sciences

[gundolf.kiefer@hs-augsburg.de](mailto:gundolf.kiefer@hs-augsburg.de)

Version: 1.00

January 18, 2023

# 1. User manual

The Config creator is a tool that allows the user to modify/create the configuration file of the ParaNut processor.

Additional features:

- Saving presets of the configuration
- Approximating resource usage

## 1.1. Starting page

1. Select desired theme. You can choose between light and dark theme.
2. Select your desired hardware to continue with the configuration progress.
3. Choose between predefined configurations and a manual configuration of the ParaNut. Beginner mode: Contains a list of already „ready-to-use“ configurations and your saved presets. Expert mode: Contains a step by step configuration process, where every module can be adjusted by certain parameters.
4. These are links leading to an overview article of the ParaNut project from the embedded world exposition in 2020 and to the EES-ParaNut project GitHub.

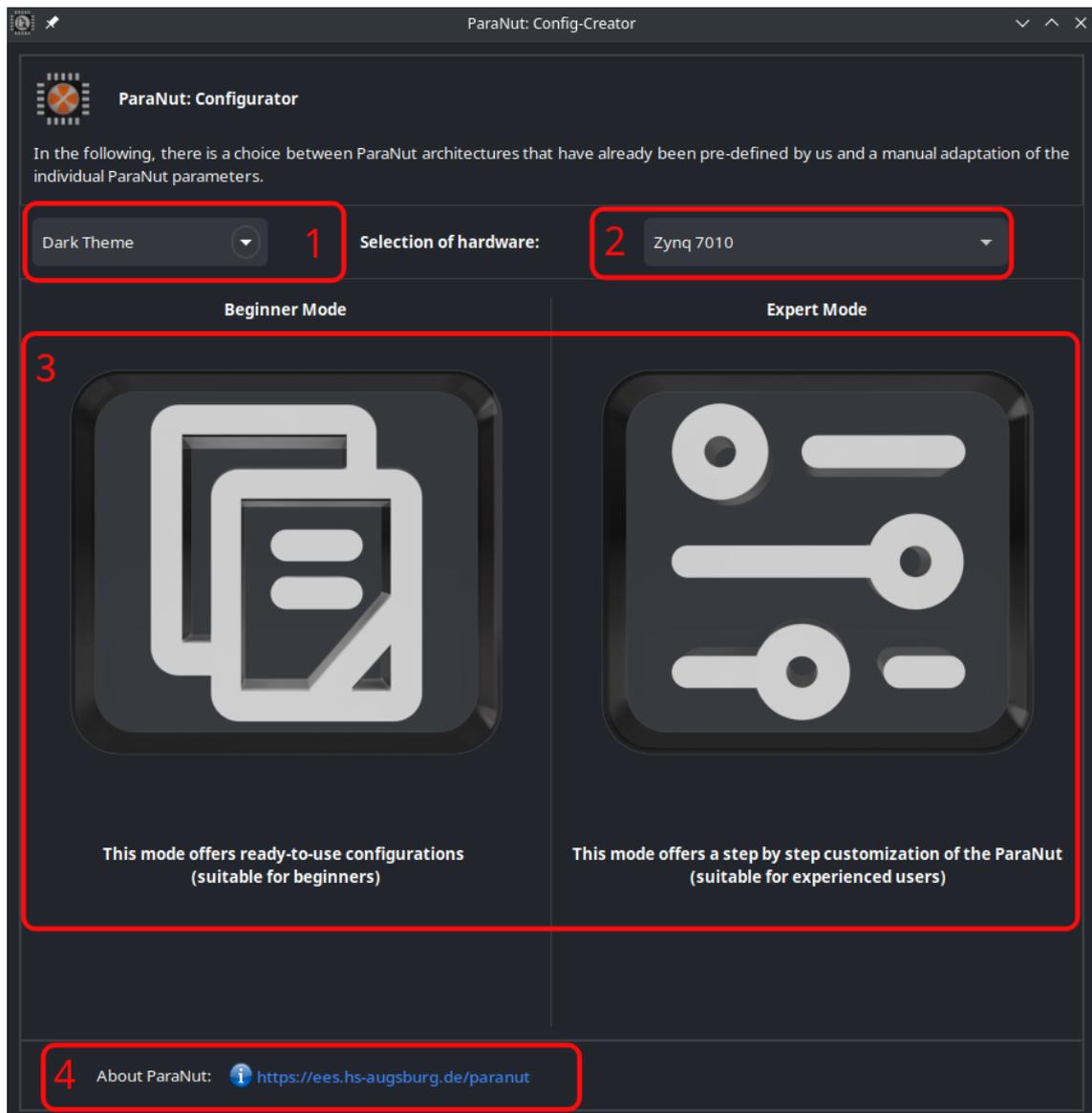


Figure 1.1.: Screenshot of the starting page

## 1.2. Beginner mode

1. Each section represents either a predefined system or one of your saved presets.
2. Pressing the „Cancel“ button will redirect you to the starting page.

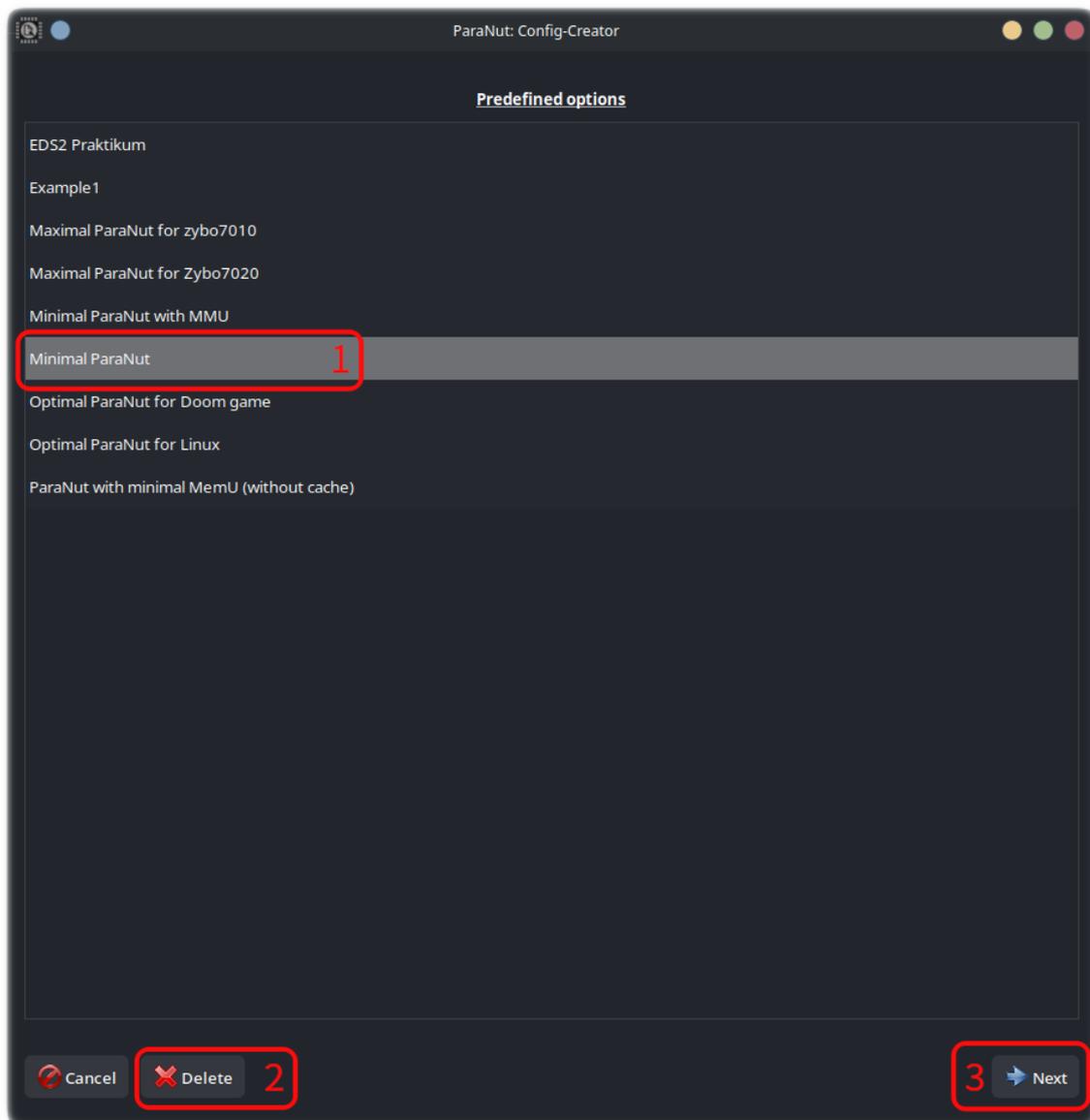
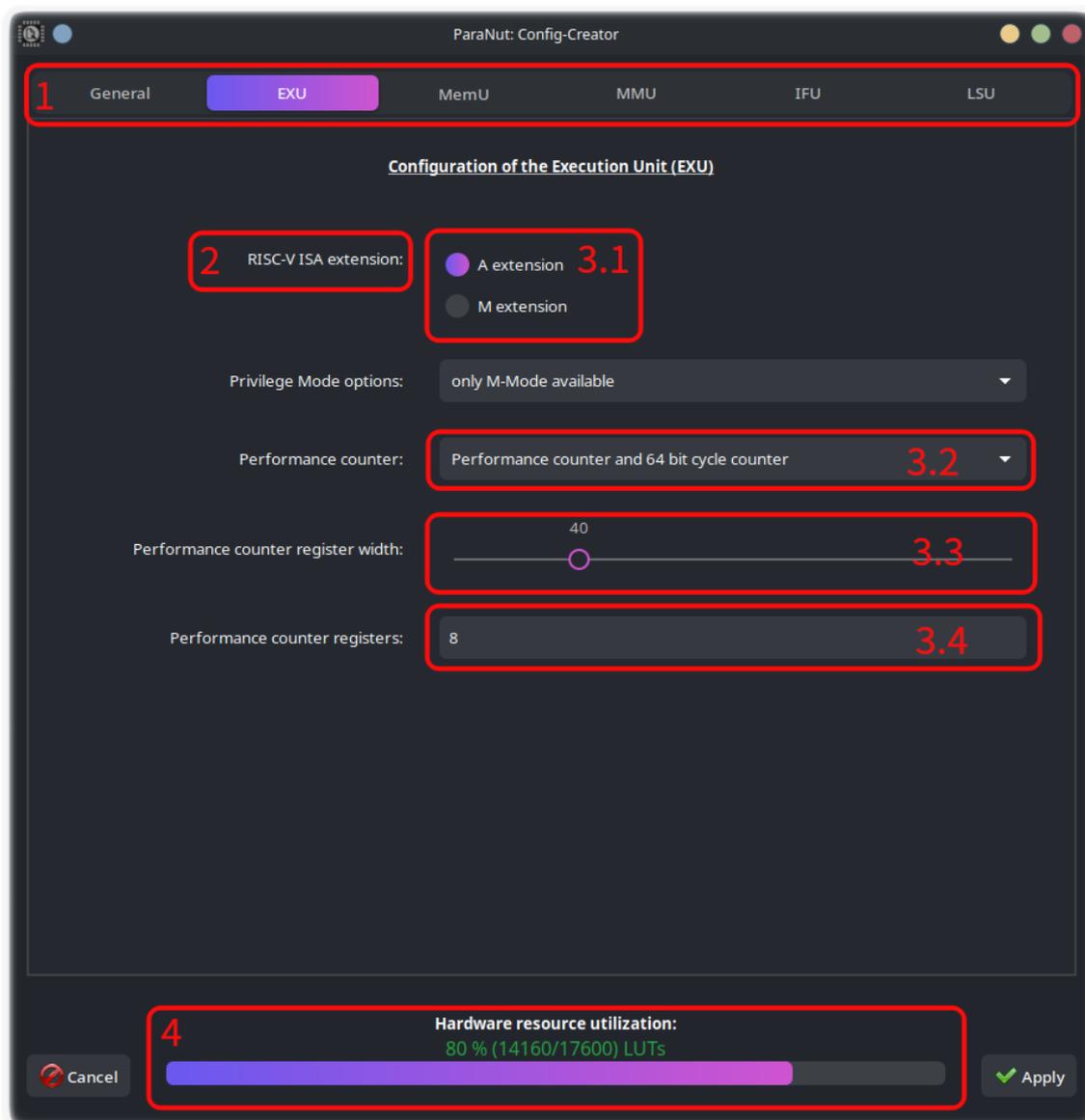


Figure 1.2.: Screenshot of the beginner mode page

### 1.3. Expert mode

1. The manual configuration page has a navigation bar, which is used to jump between the individual modules.
2. Each module has its own parameters which reveal tips and explanations when hovering over them.
3. The configuration process consists of three different input types:
  - 1 Checkboxes, which decide whether content should be added.
  - 2 Comboboxes, which have drop-downs containing the different options to choose from.
  - 3 Slider, which allows to select an accurate value.



**Figure 1.3.:** Screenshot of the expert mode page

- 4 Simple integer entries, resembling the desired value of the associated parameter. (invalid entries will return warnings or errors.)
4. The hardware resource utilization progress bar resembles the used hardware resource capacity relative to its maximum resources.

Pressing the „Apply “ button will commit your entered values, while jumping to the overview page. Pressing the „Cancel “ button will terminate the manual configuration process and you will be sent to the starting page.

## 1.4. Overview page

This page is the last stop before the finished configuration file. On this page all your manually selected or predefined options will be summarized, giving you the chance to make changes.

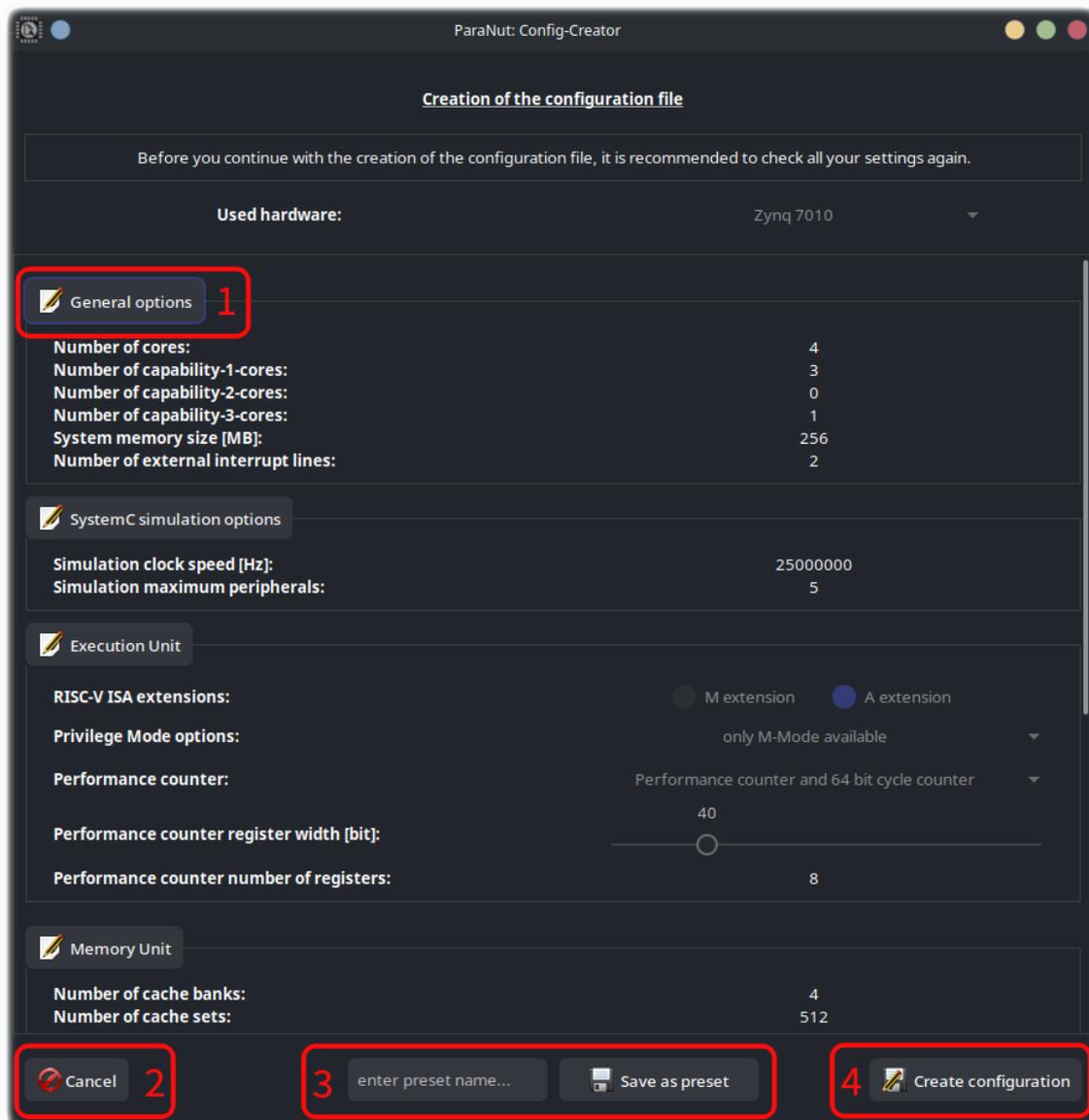


Figure 1.4.: Screenshot of the overview page

1. Each different module has its own section with an „Edit“ button, which leads to the corresponding module page in the manual configuration.
2. The „Cancel“ button will lead you back to the starting page.
3. Your configuration will be saved as a preset. From now on it will be shown in your Beginner mode section of the tool.
4. Your configuration will be saved as a finished config.mk file on your computer.