

## Exercise 11: Coverage Holes Analysis

**Objective:** Overview of the concepts of coverage reports and coverage holes.

**Task:** Generation of coverage reports for different parameters of the DUT.

Analyze the coverage results obtained from the previous exercises. Is there something that can be done to increase the percentage covered?

What happens if the `THRESHOLD` parameter is increased and the `DATA_W` parameter decreased?

Rerun the tests for different combinations of the DUT's parameters and analyze the results using the `PyUCIS-viewer` tool.

After some tests merge the coverage results and visualize it by running:

---

```
# The following command will:  
# 1. merge all available "*.xml" files inside "sim_build/" and creates a "merge_cov.xml"  
#    file.  
# 2. open pyucis-viewer with the "merge_cov.xml" file  
  
(.venv) [<username>@<servername> tb]$ make coverage
```

---