Chapter 7 - OpenROAD flow scripts - TRAINING 1 - Common

Course authors (Git file)

1. Platform configurations

Platform configurations

Make use of the ORFS tutorial, platform configuration:

https://openroad-flow-scripts.readthedocs.io/en/latest/tutorials/FlowTutorial.html#platform-configuration

Compare two platforms

- Open the config.mk files for two platforms in parallel, so you can compare them.
- Platforms: ihp-sg13g2 and sky130hd

Questions:

- How are they similar and different?

Structure of the config.mk

- Open the config.mk of the platform ihp-sg13g2
- Name the sections of the config.mk

Questions:

- Where have you seen the titles (comments) of the sections before?

Variables

- Open the config.mk of the platform ihp-sg13g2
- Identify the following variables and find out their meanings / purpose.
- Variables:
  - DONT_USE_CELLS
  - IO_PLACER_H
  - CORE_MARGIN and CORE_UTILIZATION
  - KLAYOUT_TECH_FILE
  - KLAYOUT_DRC_FILE

Questions:

- Where is the information about the variables?
- The meanings and purpose of the variables.
- Is CORE_UTILIZATION in the config.mk? Why?
- Any other variables you looked up out of interest?