

Chapter 04 - OpenROAD first run - TRAINING

Course authors (Git file)



1 Start the first run



EDA tools

- One of the options of chapter 0 (preparations) is needed.
- Navigate to the /flow folder



Enable the design in the Makefile

- Edit the Makefile:
 - Uncomment the line with your chosen DESIGN_CONFIG from ihp-sg13g2. For example the gcd design: `DESIGN_CONFIG=./designs/ihp-sg13g2/gcd/config.mk`
 - Re-comment the previous uncommented line with DESIGN_CONFIG. For example the gcd on SKY130 design: `# DESIGN_CONFIG=./designs/asap7/gcd/config.mk`
 - The line with the default design does not need to be commented. This only applies when no previous line with DESIGN_CONFIG is set.



Run the flowscript

- Run make from inside the /flow folder.



Success

- The chosen design should finish after a while and a lot of console output with a table (time/memory) like this:

Log	Elapsed seconds	Peak Memory/MB
1_1_yosys	0	24
1_1_yosys_canonicalize	0	17
1_1_yosys_hier_report	0	12
2_1_floorplan	0	110
2_2_floorplan_io	0	106
2_3_floorplan_tdms	0	98
2_4_floorplan_macro	0	106
2_5_floorplan_tapcell	0	105
2_6_floorplan_pdn	0	108
3_1_place_gp_skip_io	0	108
3_2_place_iop	0	107
3_3_place_gp	0	320