

# Chapter 04 - OpenROAD first run - TRAINING

## OpenROAD first run

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- One of the options of chapter 00 is needed.
- Navigate to the /flow folder
- 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 make from inside the /flow folder.
- 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

