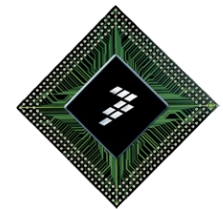


October 17th, 2008

## How to use TLSE\_CPG\_CUSTOM\_TOOLS FORM



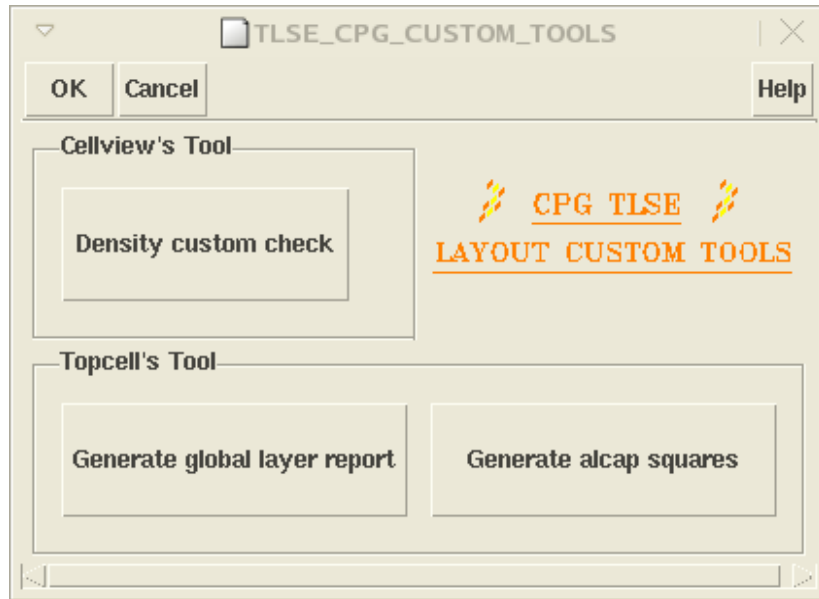
Duchemann Virginie

## TLSE\_CPG\_CUSTOM\_TOOLS

1) How to launch the TLSE\_CPG\_CUSTOM\_TOOLS' form:

You can launch it manually in icfb:

**load("/user/ra115c/bin/TLSE\_CPG\_CUSTOM\_TOOLS.il")**



Choose the custom tool that you wanted to use:

Cellview's Tool :

Click on button Density custom check

Topcell's Tool:

Click on button Generate global layer report

Click on button Generate alcap squares

## DENSITY CUSTOM CHECK

The screenshot shows the 'DRC DENSITY CUSTOM' dialog box. It has a title bar with a close button. Below the title bar are 'OK', 'Cancel', 'Apply', and 'Help' buttons. The 'Apply' button is circled in green with a green arrow pointing to it from the text '3) Launch assura run'. The dialog is divided into several sections: 'Cellview' with fields for 'Library' (trash), 'Cell name' (ral15c\_skill\_test1), and 'View' (layout\_PCELL\_MERGED); a section with 'Browse' and 'select active layout view' buttons circled in green with a green arrow pointing to it from the text '1) Choose the cellview click on button Browse or on button « select active layout view »'; 'Options' with radio buttons for 'ams3.1p2\_beta2 for VLT', 'ams3.3\_HF1 for AXIS', and 'ams3.4\_HF1 for APL' grouped by a green bracket and labeled '2) Choose the ams kit used in the project'; a text field for 'DRC density accurate rules file' containing a path; a checkbox 'Use very small steps checks:' with a green arrow pointing to it; and a 'Result' section with a 'DRC Result File' field containing a path, which is circled in green.

**3) Launch assura run**

**1) Choose the cellview**  
click on button Browse  
or on button « select active layout view »

**2) Choose the ams kit used in the project**

**4) At the end of the run, DRC result file path appear in the window and assura result form will be opened. (for the first run launched you have to open the run with the menu Assura->Open Run)**

# Generate global layer report for Tape out

**LAYERS DENSITY REPORT**

OK Cancel Help

**Cellview**

Library: top\_atlas\_vlt

Cell name: topcell

View: layout

Browse OR select active layout view

**Generate layer density report for Cellview**

Generate report

**Report**

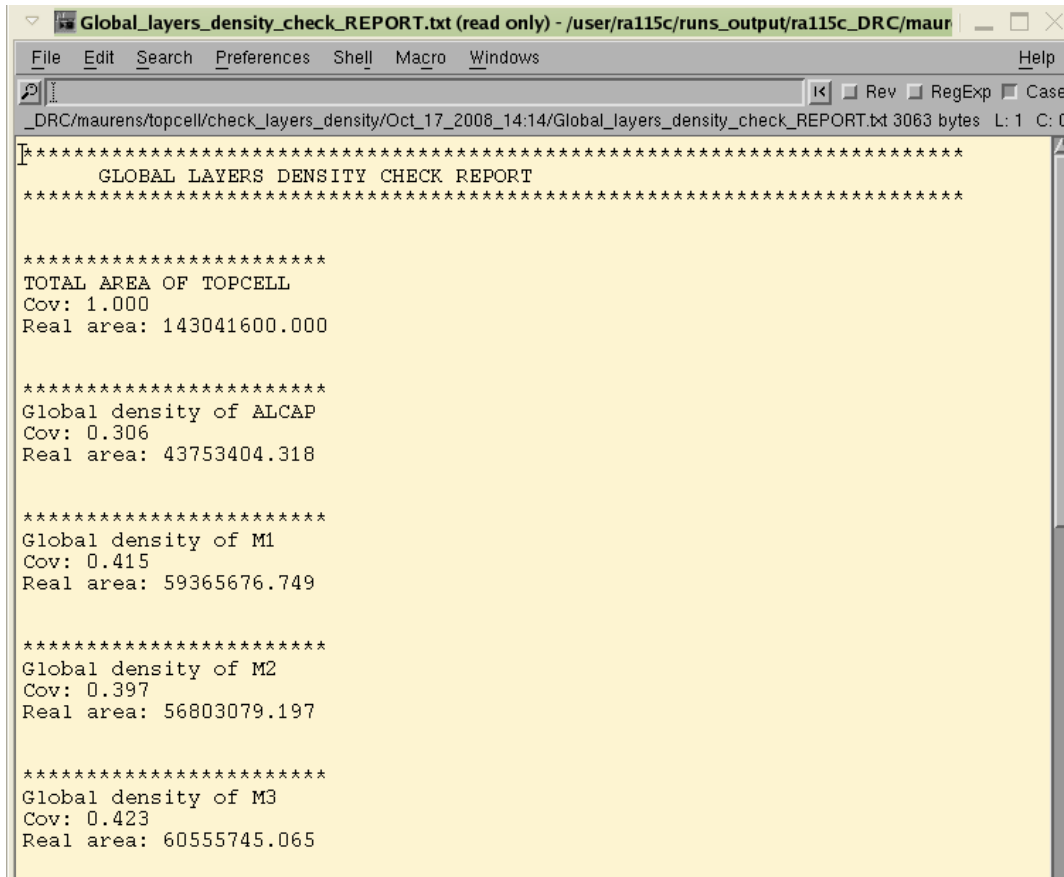
Result File Name: .ty/Oct\_17\_2008\_14:14/Global\_layers\_density\_check\_REPORT.txt

1) Choose the cellview  
click on button Browse  
or on button « select active layout view »

2) Click on button to launch creation of the report

3) At the end of the run, the report path appear  
in the window and the report file will be opened  
in « read-only » mode.

## Generate global layer report for Tape out



```
Global_layers_density_check_REPORT.txt (read only) - /user/ra115c/runs_output/ra115c_DRC/maur
File Edit Search Preferences Shell Macro Windows Help
_DRC/maurens/topcell/check_layers_density/Oct_17_2008_14:14/Global_layers_density_check_REPORT.txt 3063 bytes L: 1 C: 0

*****
GLOBAL LAYERS DENSITY CHECK REPORT
*****

*****
TOTAL AREA OF TOPCELL
Cov: 1.000
Real area: 143041600.000

*****
Global density of ALCAP
Cov: 0.306
Real area: 43753404.318

*****
Global density of M1
Cov: 0.415
Real area: 59365676.749

*****
Global density of M2
Cov: 0.397
Real area: 56803079.197

*****
Global density of M3
Cov: 0.423
Real area: 60555745.065
```

Here are an example of report generated by this custom tool.

## Generate Alcap squares

**GENERATE ALCAP SQUARE FOR TOPCELL**

OK Cancel Help

**Cellview**

Library: trash

Cell name: ra115c\_alcap\_sq

View: layout

Browse

OR

select active layout view

**Directives**

1- Select your Topcell boundary (edge of the "edge-seal" instance)

2- Enter Alcap keepout from edge

for X axe: 150.00 min\_value=30.75 udr max\_value = 3681.40

for Y axe: 400.00 min\_value=30.75 udr max\_value = 3681.40

3- Click on button below to generate alcap squares

Generate alcap squares

**GDS file**

GDS file path: s\_vlt/current/ra115c\_latest/generated\_Alcap\_squares.gds.out

- 1) Choose the cellview  
click on button Browse  
or on button « select active layout view »

- 2) Follow the  
different  
steps

- 3) At the end of the run,  
GDS file path appear in the  
window

- 4) In icfb menu, File->Import->Stream: fill Input File field with GDS file path

