Raikiri®(DRC/LVS)

[Abstract]

Raikiri is a EDA tool that run DRC(Design Rule Check) and LVS(Layout vs. Schematic) on integrated curcuits.

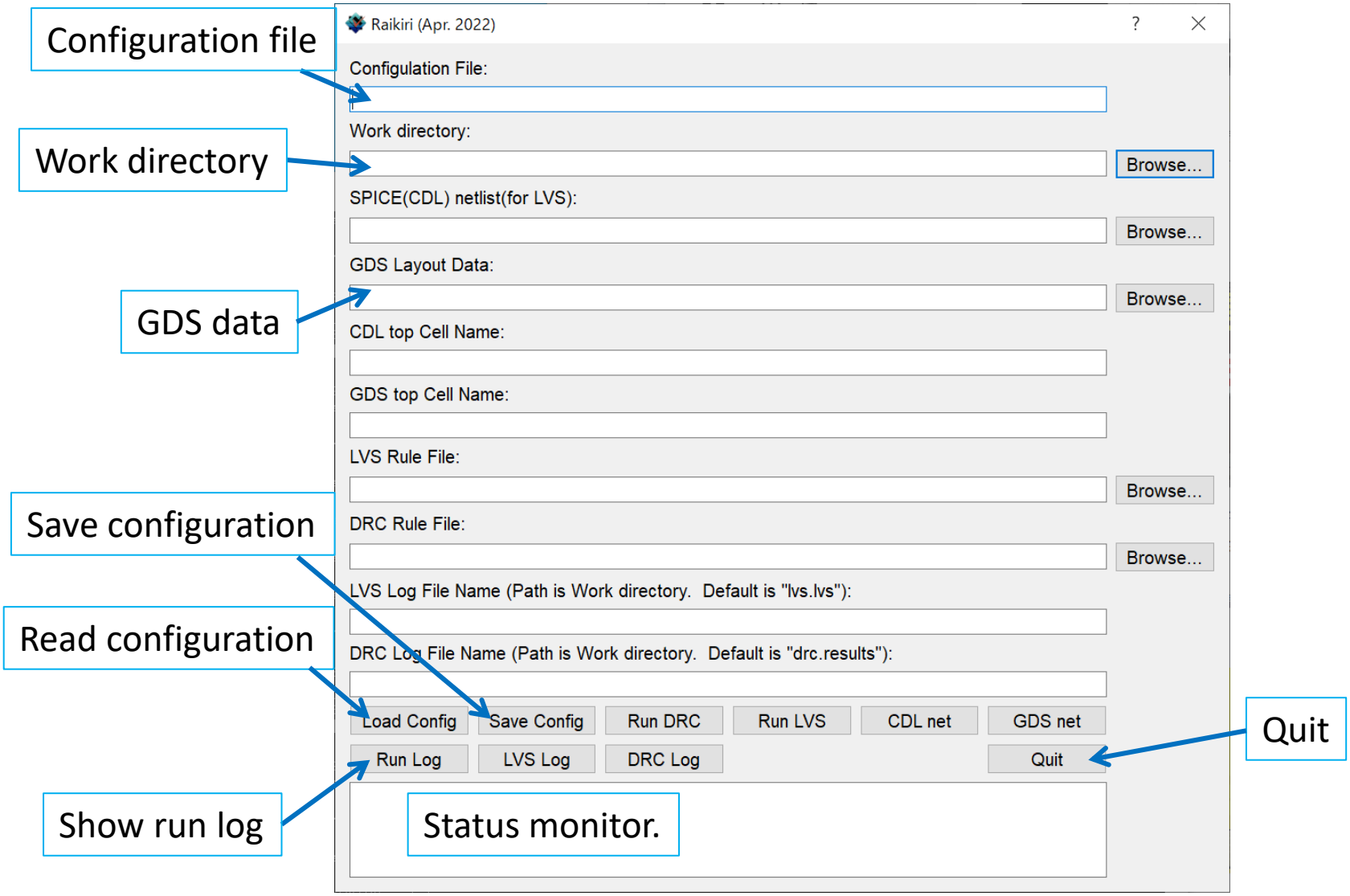
[Benefits]

- Read and run de facto standard DRC/LVS rule files directly.
- Easy to use.
- Support Windows® and Linux(RedHat®8) platforms.

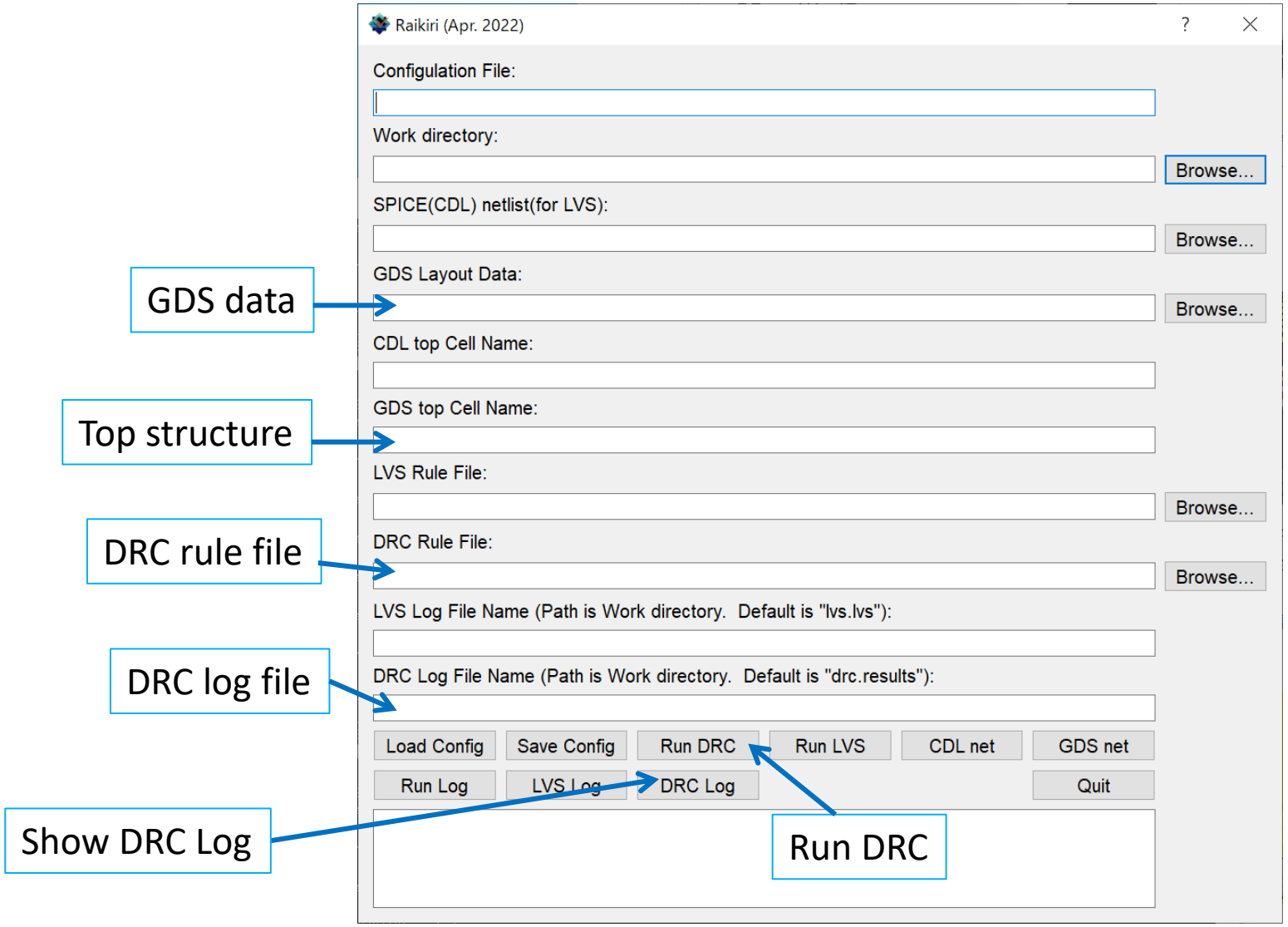
Getting started

- Insert USB dongle key that include DRC/LVS software.
  In this case, installation is not required.
- Second case, copy execution module to disk and run.
  In this case, setup procedure is easy.

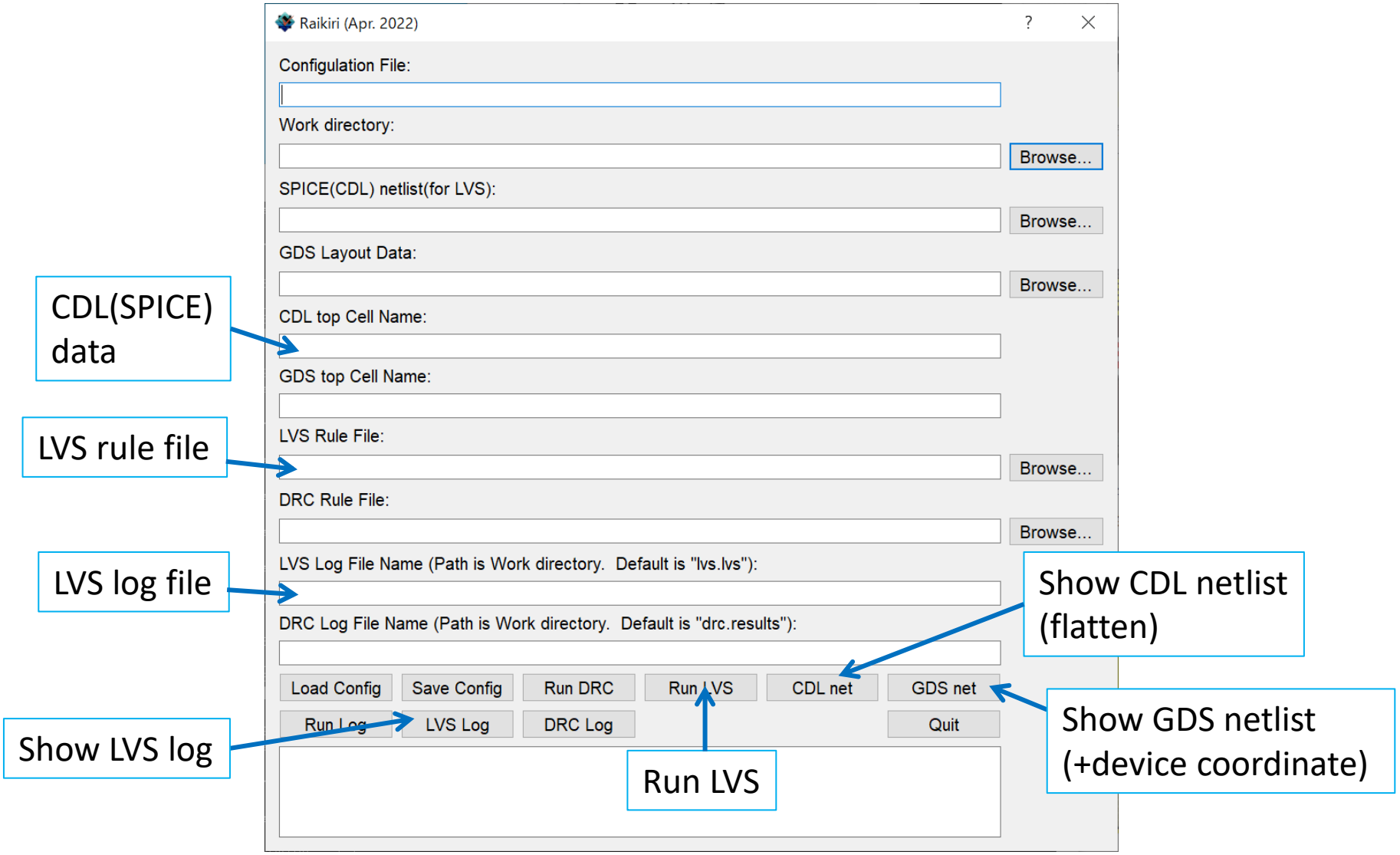
Common Settings



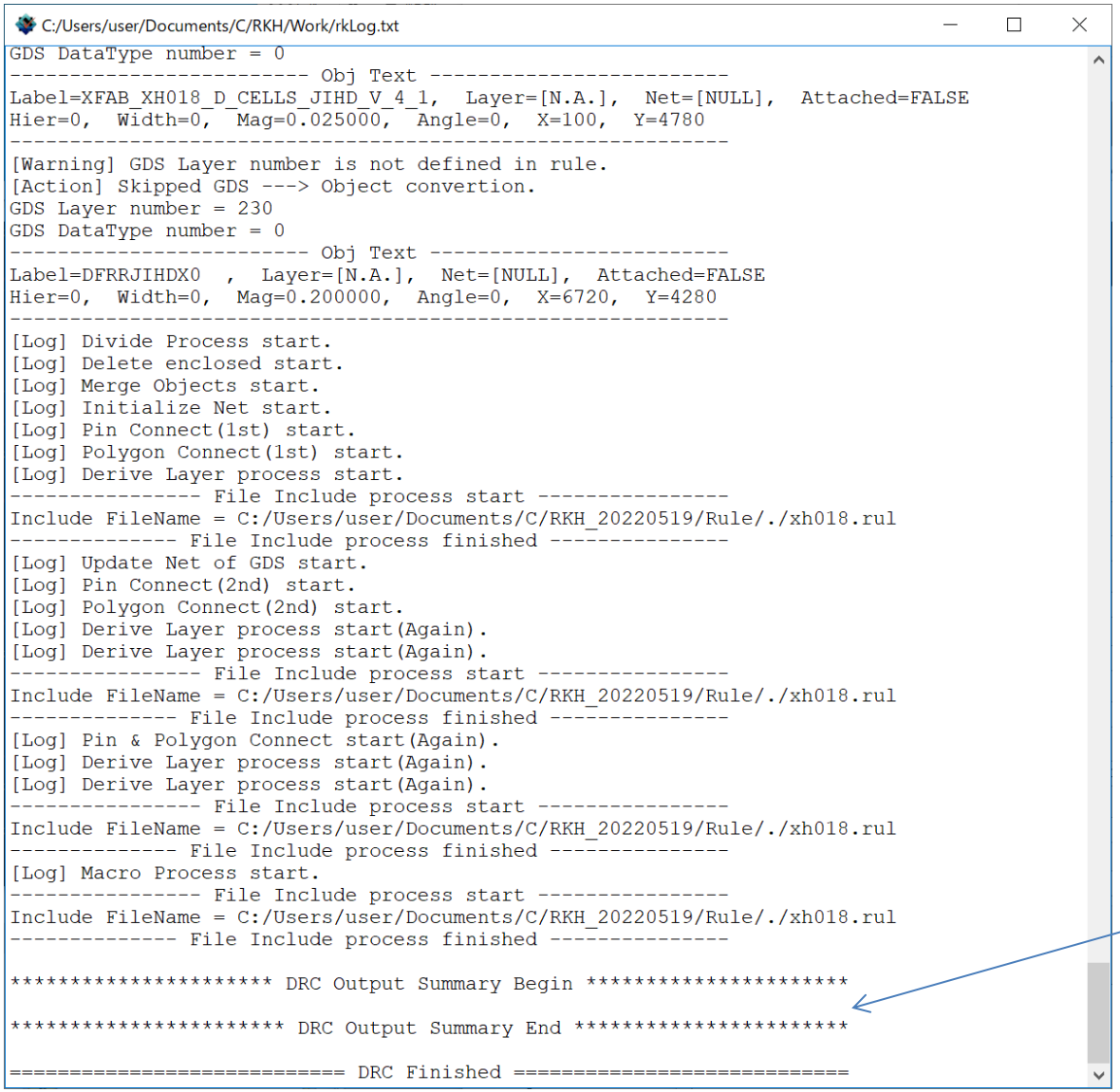
DRC Settings



LVS Settings



Run log



To show this
Press [Run Log] button

In case DRC Summary Section empty, and DRC-OK.

DRC errors summary

C:/Users/user/Documents/C/RKH/Work/rkLog.txt

```
-------------- File Include process finished ---------------

********************** DRC Output Summary Begin **********************

S1IP : Minimum PIMP spacing/notch ... 0.44
Output Count = 4

S1M1 : Minimum MET1 spacing/notch ... 0.23
Output Count = 56

A1M1 : Minimum MET1 area ... 0.202
Output Count = 13

W1V1 : Fixed VIA1 size ... 0.26 x 0.26
Output Count = 714

S1V1 : Minimum VIA1 spacing ... 0.26
Output Count = 1

S3V1 : Minimum VIA1 stripe to VIA1 spacing ... 1.0
Output Count = 5986

E4M1V1 : Minimum MET1 enclosure of VIA1 stripe ... 0.07
Output Count = 1433

E7M2V1 : Minimum MET2 enclosure of VIA1 stripe ... 0.07
Output Count = 1152

S1M2 : Minimum MET2 spacing/notch ... 0.28
Output Count = 10

W1V2 : Fixed VIA2 size ... 0.26 x 0.26
Output Count = 518

S9V2 : Minimum VIA2 stripe to VIA2 spacing ... 1.0
Output Count = 3285

E8M2V2 : Minimum MET2 enclosure of VIA2 stripe ... 0.1
Output Count = 1036

********************** DRC Output Summary End **********************

============================ DRC Finished ============================
```

DRC Summary is written in “rk.log” file. To show this file, press [Show Run Log] button in main window.

Each error name and coordinates of each error is written in file.
This file name is specified in [DRC Log File] text box in main window.

LVS log

C:/Users/user/Documents/C/RKH/Work/LVS.LVS

```
################################################################################
                                LVS REPORT
################################################################################
Execution Date/Time : May 23 12:38:39 2022

********************************************************************************
                            COMPARISON RESULTS
********************************************************************************

                                 #    ###############
                                #     #             #
                           #    #     #   CORRECT   #
                            # #      #             #
                             #       ###############

--------------------------------------------------------------------------------
********************************************************************************
                              NET STATISTICS
********************************************************************************

      Number of      Number of      Unmatched      Unmatched
         Source         Layout         Source         Layout
         ------         ------      ---------      ---------
            544            544              0              0
--------------------------------------------------------------------------------
********************************************************************************
                            DEVICE STATISTICS
********************************************************************************

      Number of      Number of      Unmatched      Unmatched         DEVICE
         Source         Layout         Source         Layout
         ------         ------      ---------      ---------      ---------
             52             52              0              0         C(M4)
            575            575              0              0         M(XF)
            601            601              0              0        MP(PD)
            575            575              0              0        MN(ND)
```

Press [LVS Log] button
In main window.

In this case, LVS is OK.

Remarks

- Input GDS/CDL(SPICE) filename, rule filename, log filename, etc. are need to specify in main window.
- Rule file configurations that specified in main window will be ignored.
- GDS port name and CDL(SPICE) port name are need to match in LVS.
- Configurations and options are considered rarely needed may not support. Users can send enhancement request.

Contact

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