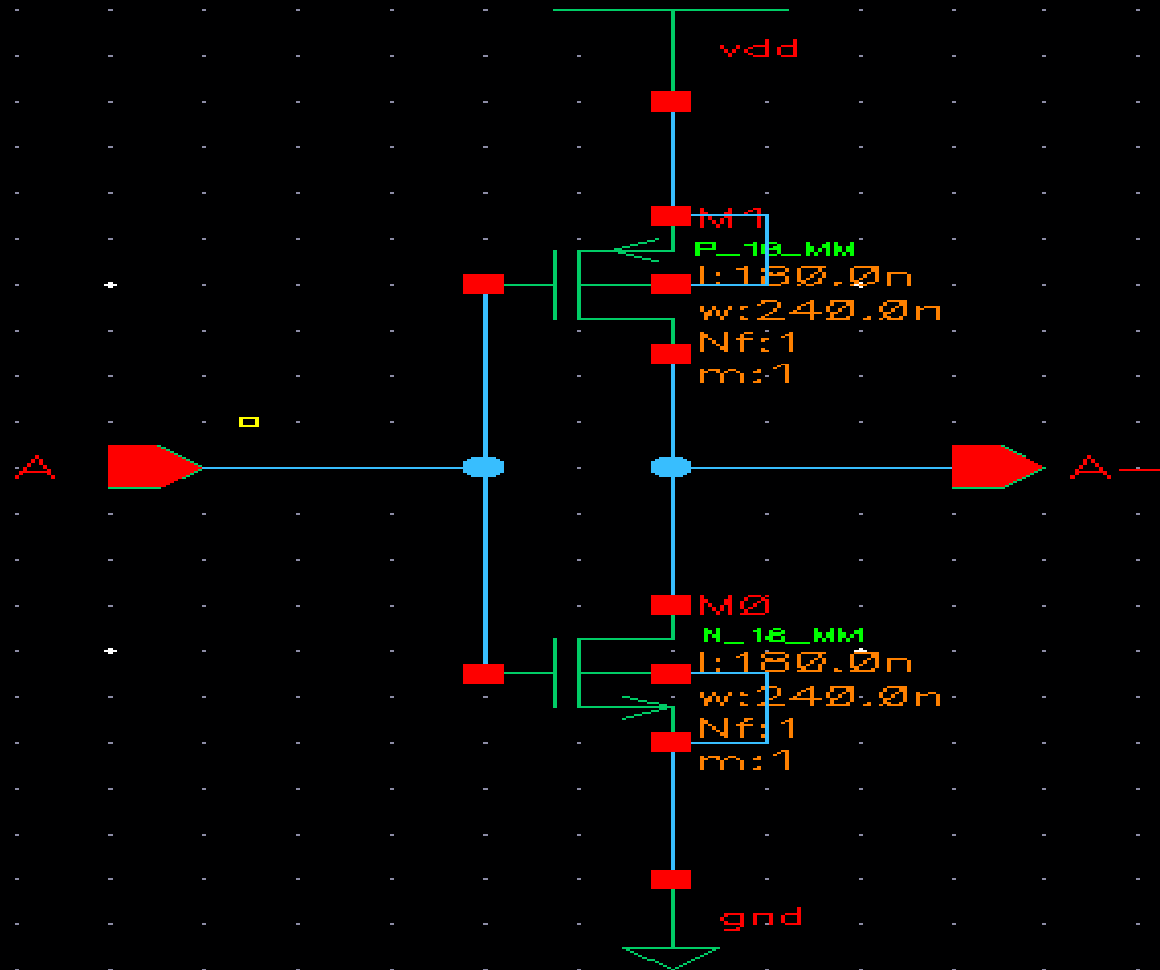


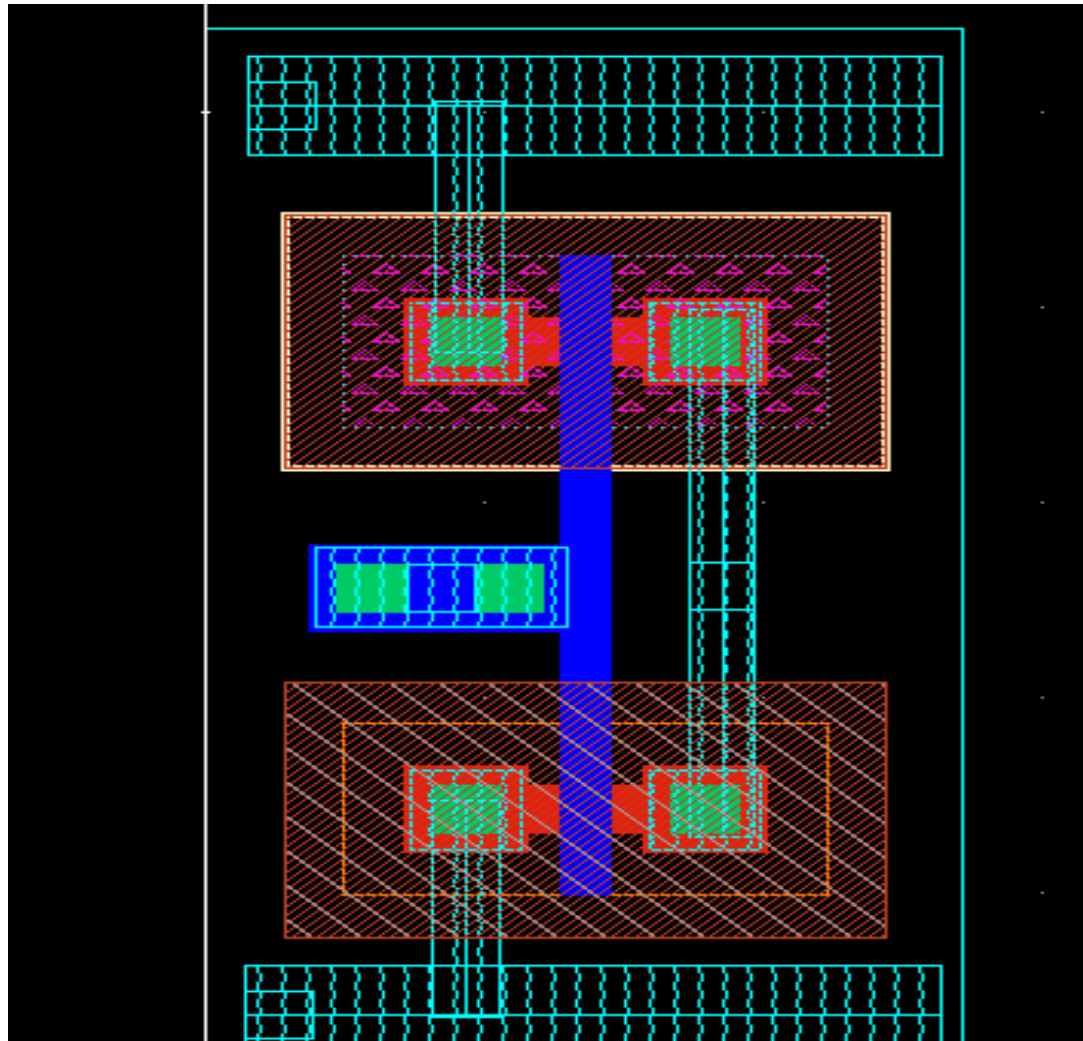
# Layout in Virtuoso - Flow

IIITH

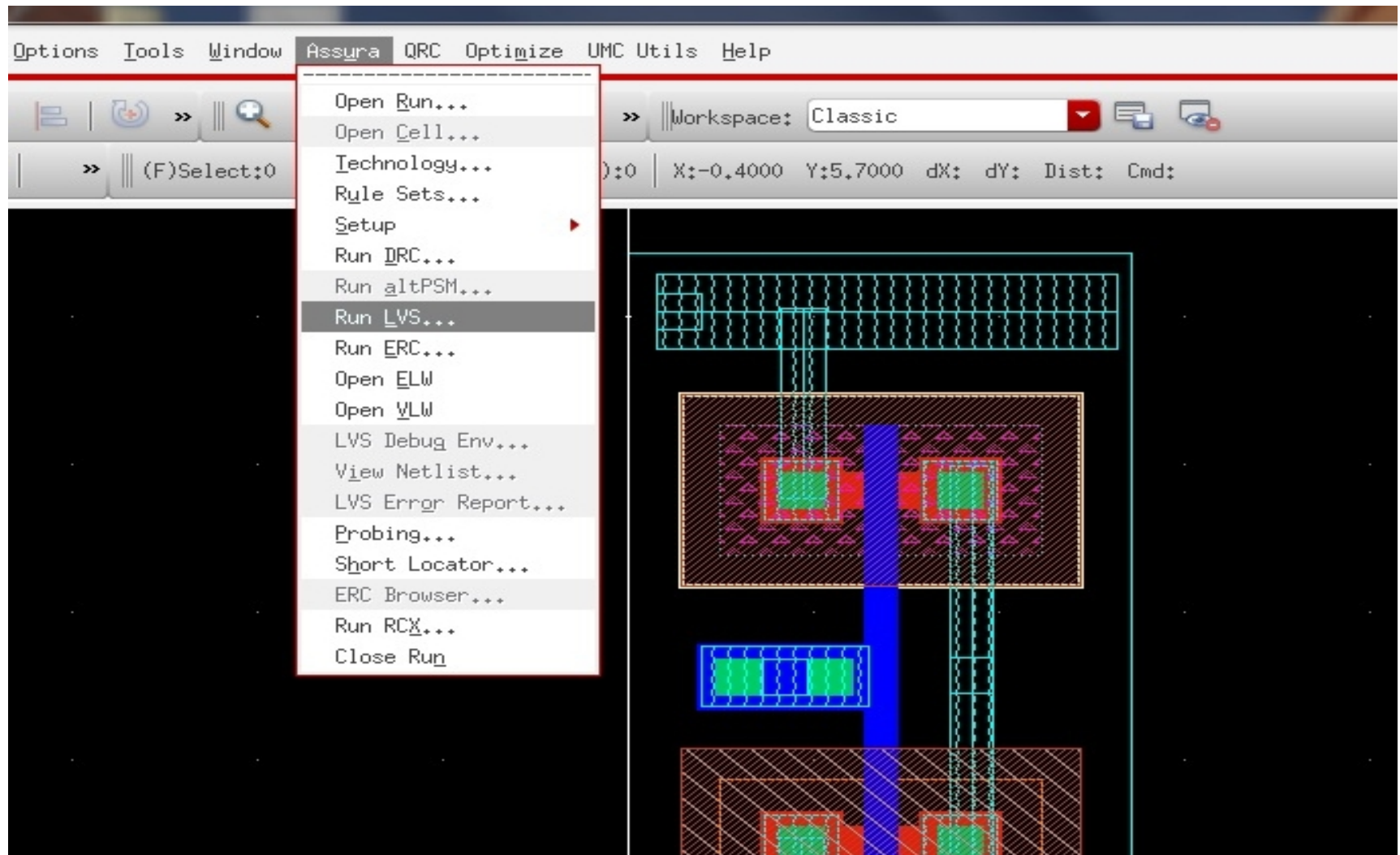
# Create Schematic



# Create Layout



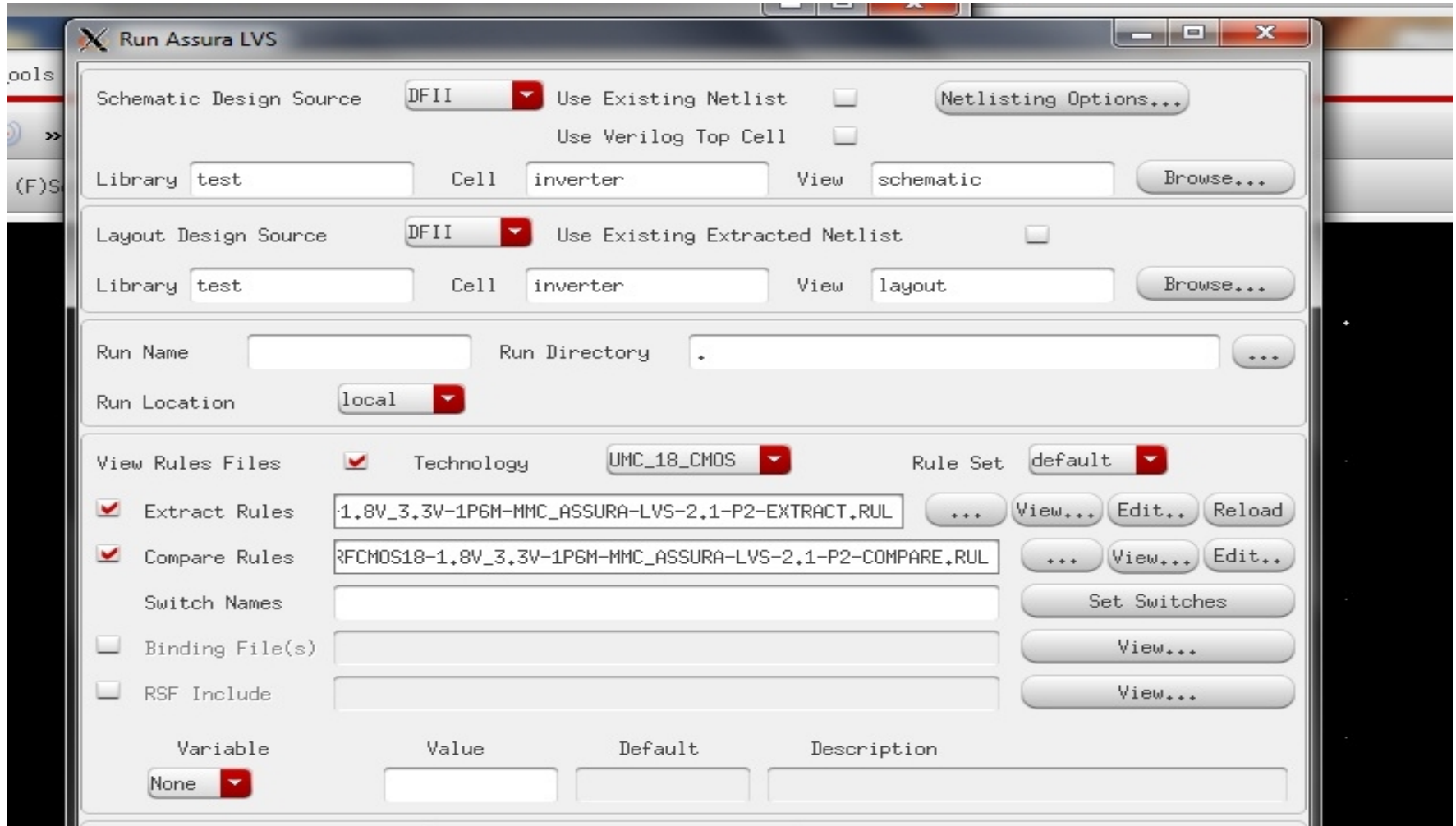
# RUNNING LVS



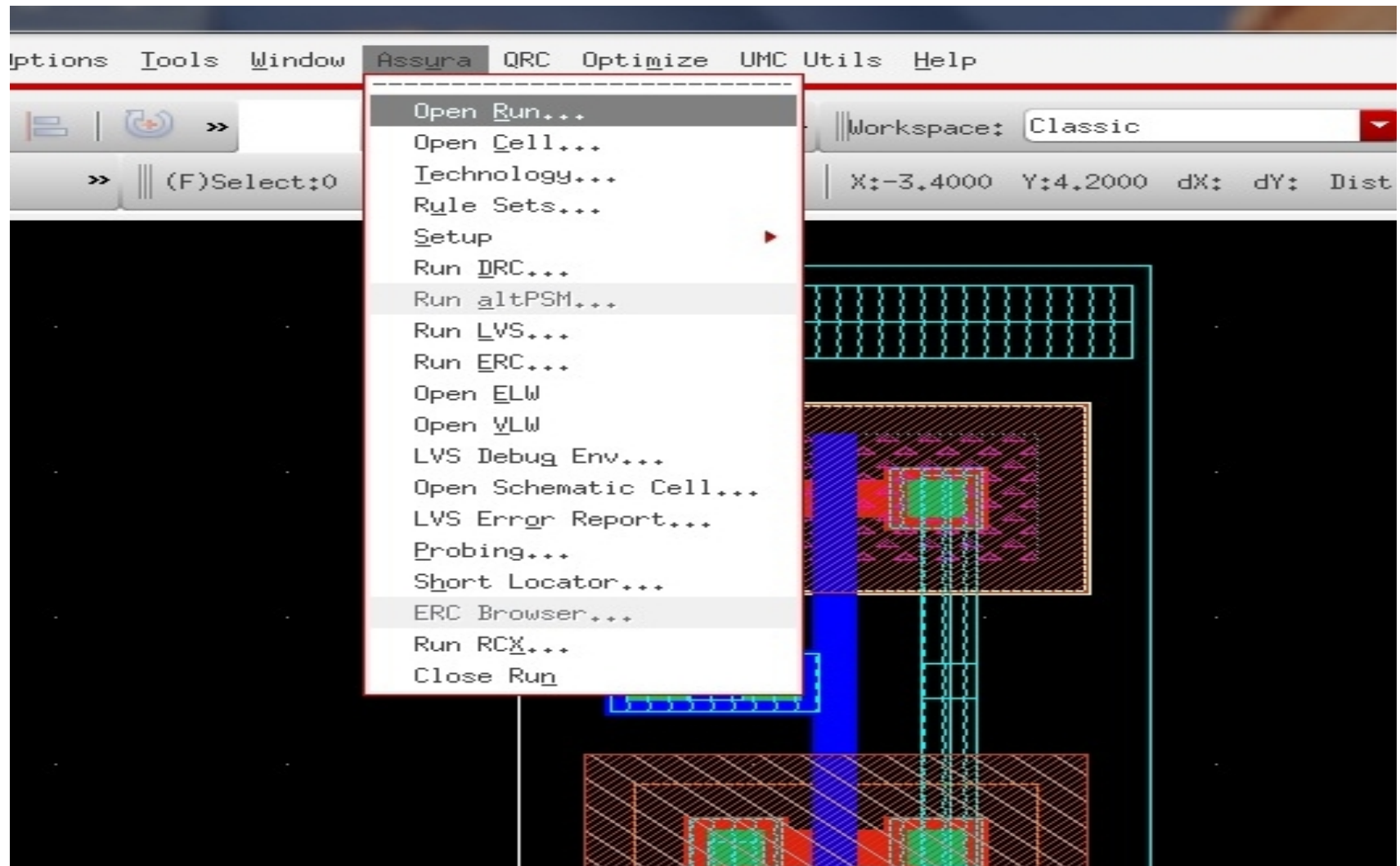
# RUNNING LVS

- Asuura --- > Run LVS
- Check Schematic and Layout cell Names
- Provide proper paths for Extraction and Compare rule decks
- Then Click “ok” or “apply” option to run LVS

# RUNNING LVS



# LVS Debugging

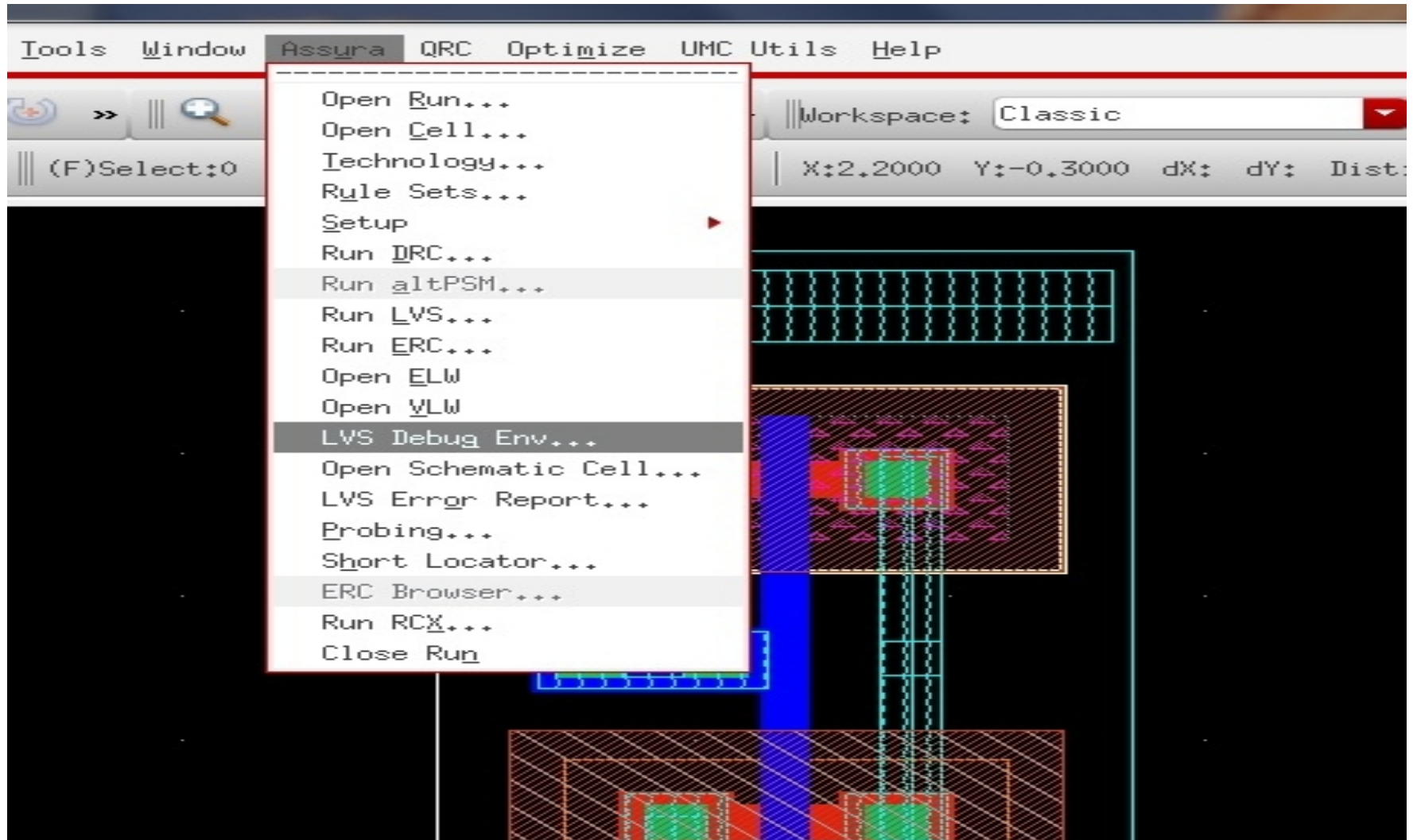


# LVS Debugging

- To debug LVS errors
- Assura --→ Open Run --→ Select the LVS run of the cell --- > Ok
- Assura --→ Lvs Debug Env
- This will pop up results and mismatch window
- Probe mismatch Nets or Devices or Pins and clean them and the run LVS again



# LVS Debugging



# LVS Debugging

The image displays two Cadence windows used for LVS debugging. The top window, titled "LVS Debug - inverter", shows a comparison between the schematic and layout for an "inverter{test}" cell. The "Cell List (sch || lay)" shows the cell name in both columns. The "Summary (sch || lay)" table provides details for the schematic and layout versions.

Summary (sch    lay)	
Rewires	2
Nets	1
Devices	0
Pins	2    0
Parameters	0

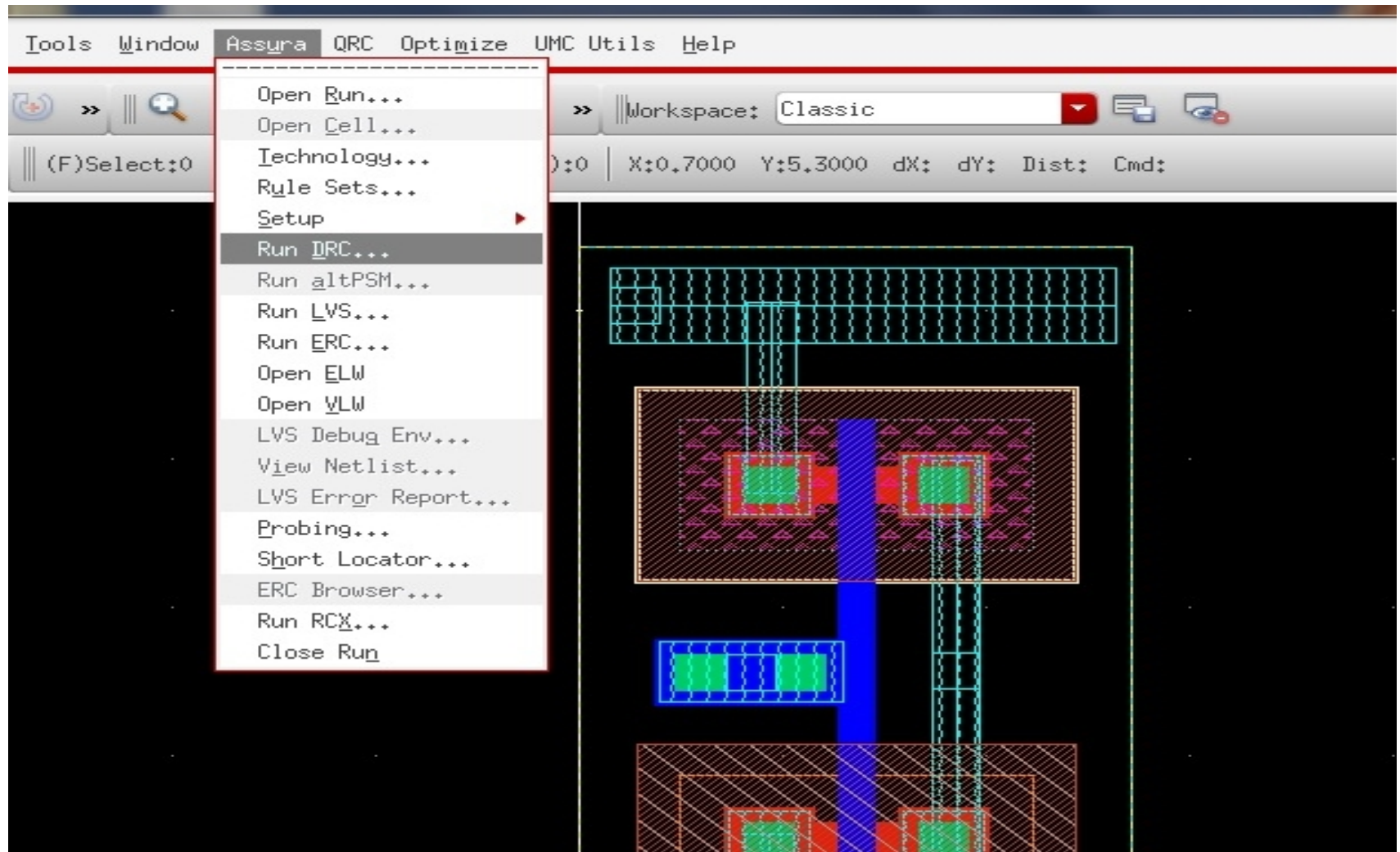
The bottom window, titled "Nets Mismatch Tool", shows the "Unmatched Internal Nets" for the same cell. The "Schematic Info (/)" table lists the connections for the schematic version, while the "Layout Info (/)" table lists the connections for the layout version.

Schematic Info (/)	
Name	(Connections/Type)
-	

Layout Info (/)	
Name	(Connections/Type)
avC3, avS16, avC2, avS17	

The background of the slide shows a partial view of the layout editor, displaying a circuit schematic with various components and connections.

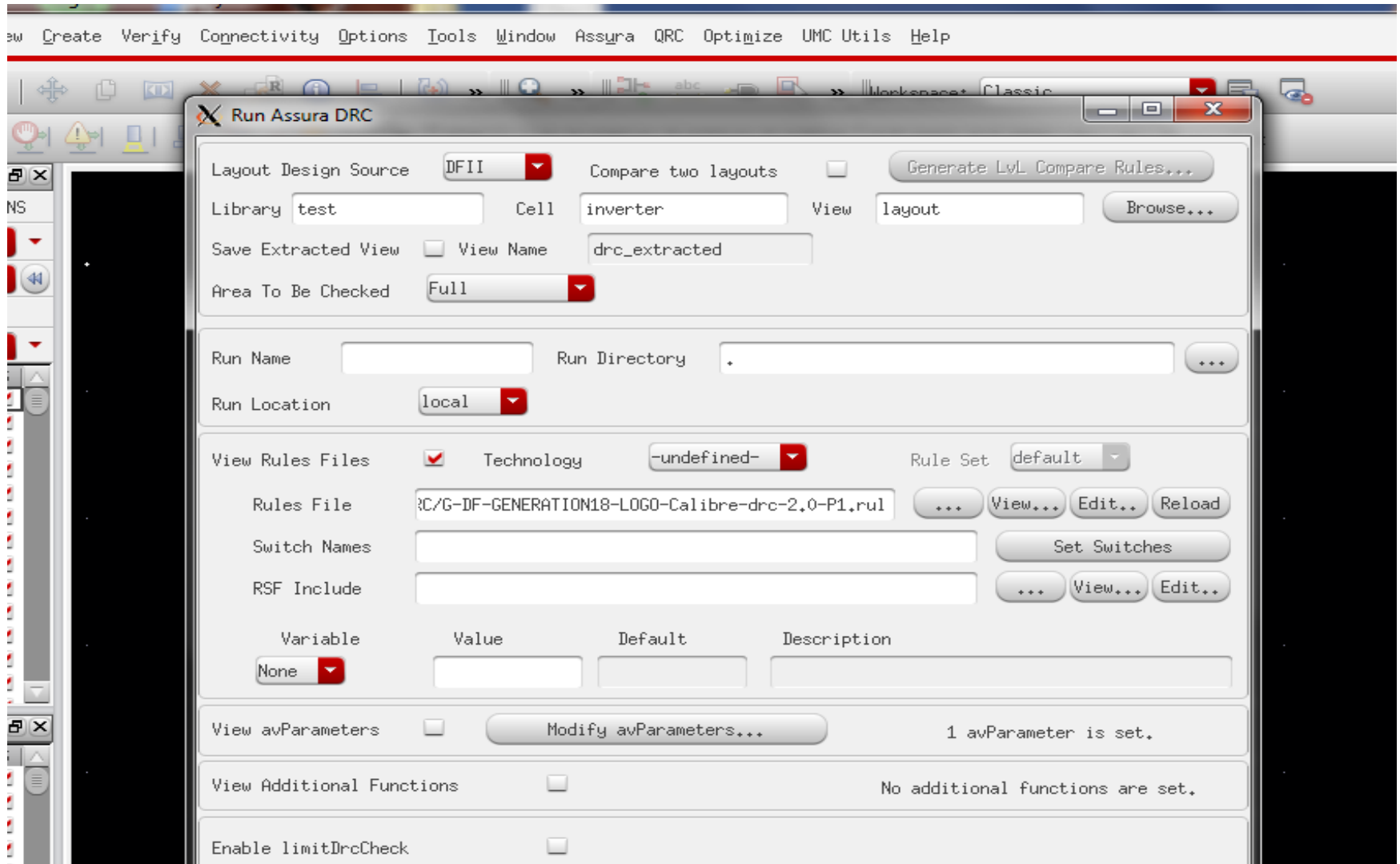
# RUNNING DRC



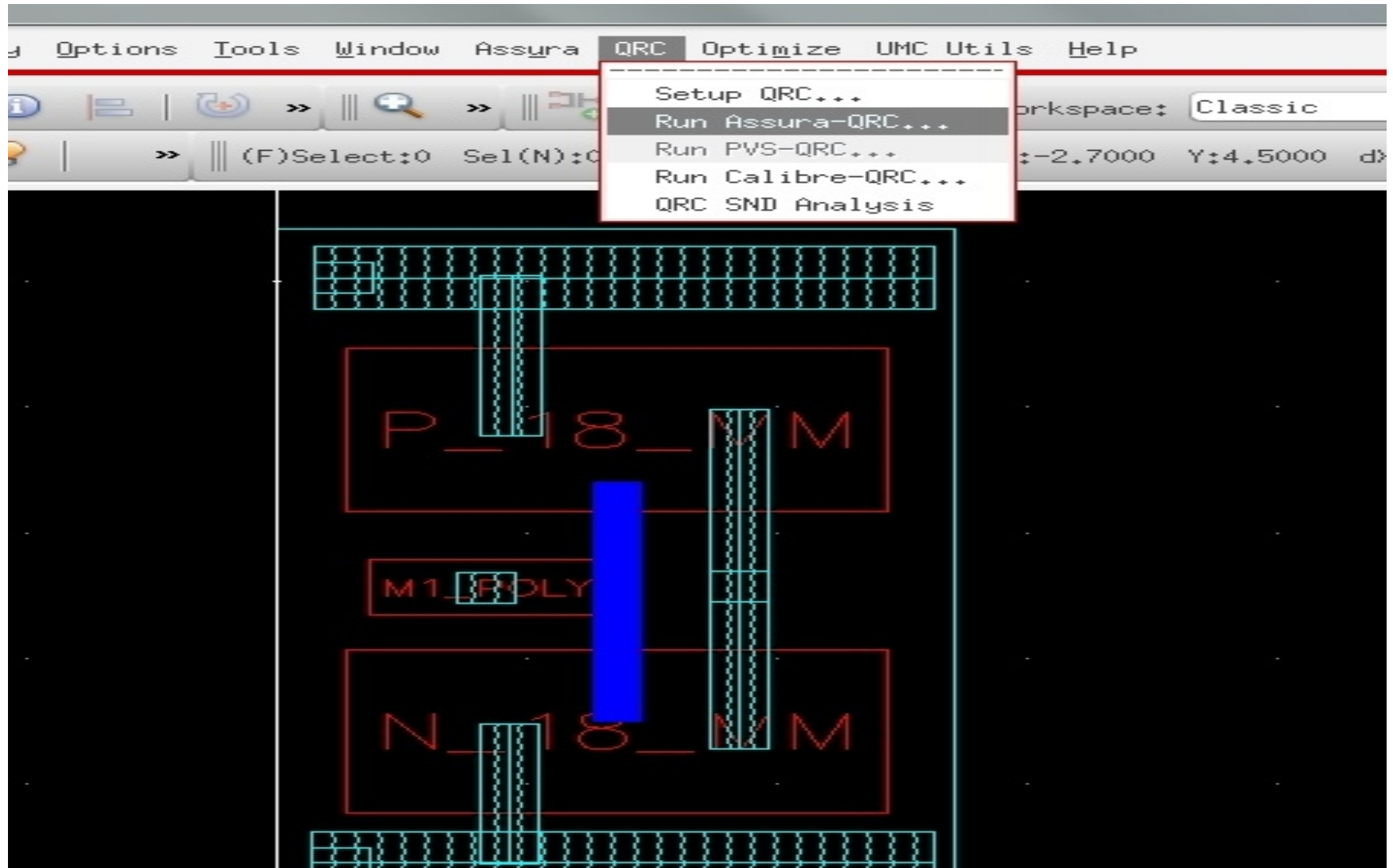
# RUNNING DRC

- Assura ---- > Run DRC
- Select the proper layout cell
- Provide path for proper DRC rule file
- Click “ok” or “apply” to run DRC
- Once the Run is finished it will pop up drc debugging window by itself

# RUNNING DRC



# RUNNING QRC

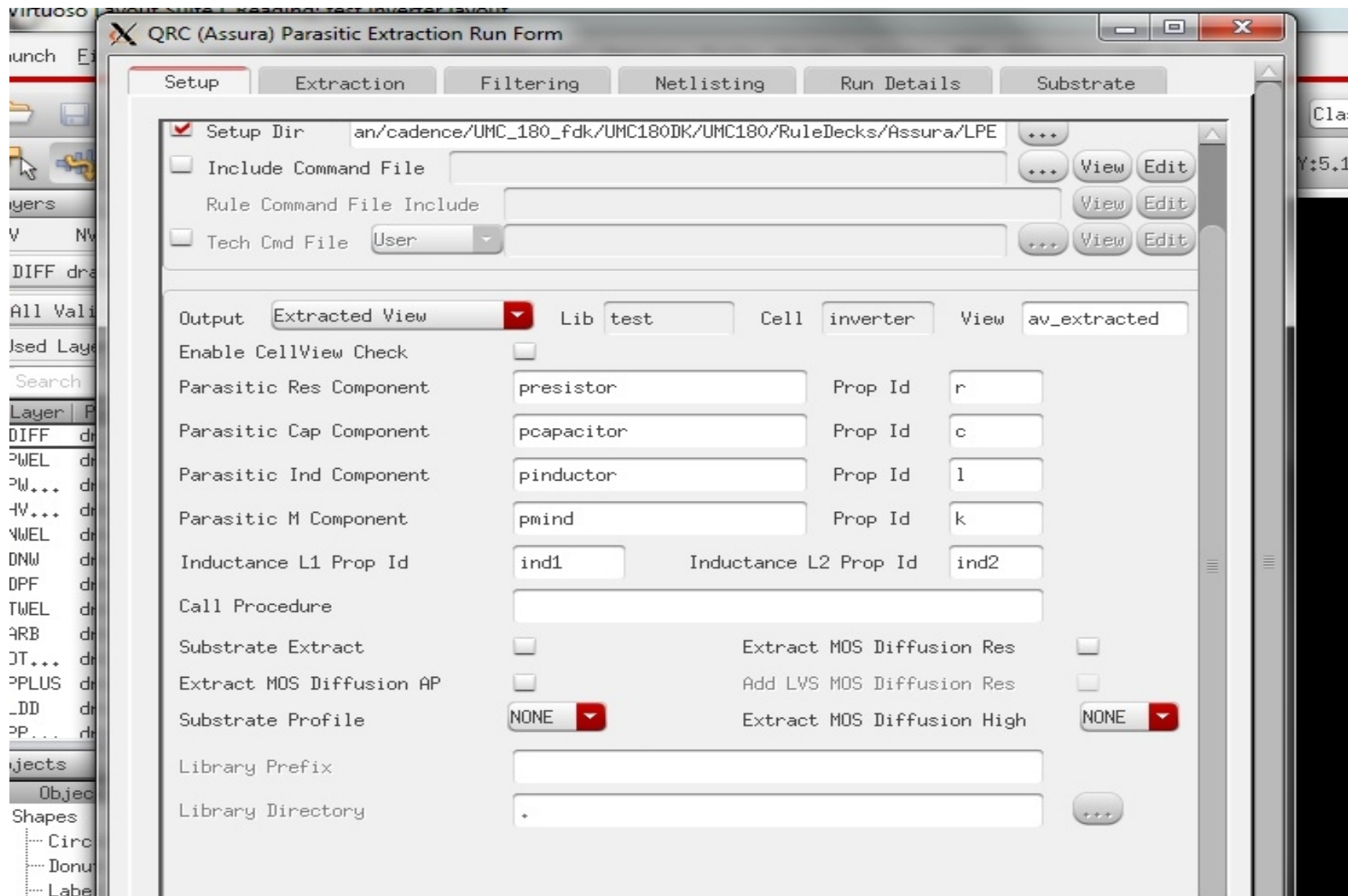


# RUNNING QRC

- Once the LVS is clean
- QRC ---→ Assura QRC -→ Select run
- Select Av extrated view or any other o/p netlist based on requirement
- Click ok to Run



# RUNNING QRC





# Av Ext View

