SIEMENS EDA

Fixing Designs using S-Edit

SIEMENS

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Objective

In this Support Kit, we provide the designs in which technology is not linked correctly and go over the steps on how to fix these issues. Make sure to understand "Attach and reference an OA Technology" Support Kit before proceeding with this Support Kit.

Typographic Conventions

LMB Indicates that the user must press and release the left mouse button.

MMB Indicates that the user must press and release the middle mouse button.

RMB Indicates that the user must press and release the right mouse button.

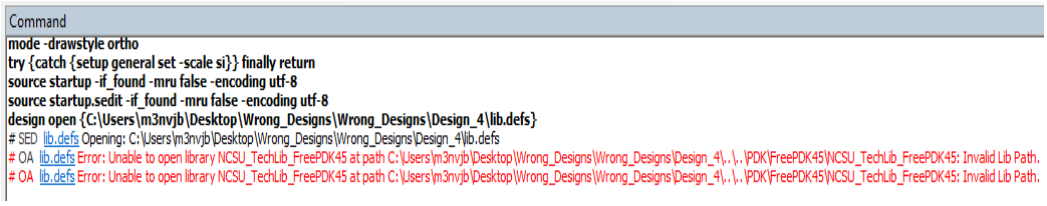
Part 1 – Fixing Design Using S-Edit

Design 4

Step 1. Open **<Your_Designs_install_Path>/Wrong_ Designs/Design_4/ lib.defs** file in **S-Edit** from the provided testcase. (You can either drag and drop the **<Your_Designs_install_Path>/Wrong_ Designs/Design_4/ lib.defs** file in **S-Edit** or use **File > Open**… dialog.)

Note. Unzip the provided testcase to your design path **<Your_Designs_install_path>.**

Step 2. You may get this message in the command line.



Step 3. Use **tech report -all** command in the command line.

Step 4. Observe the message from the command line:

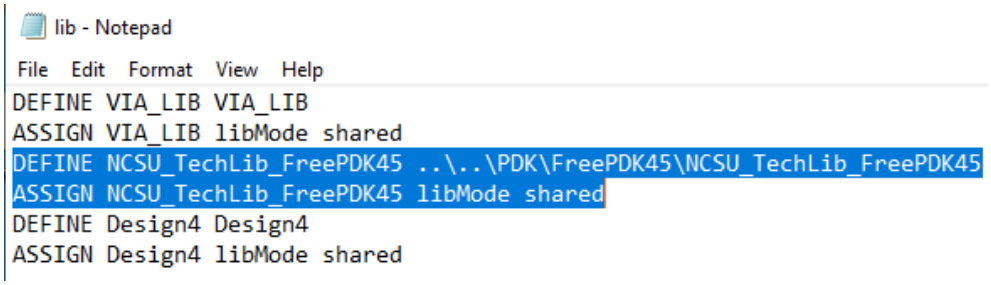
{VIA_LIB references NCSU_TechLib_FreePDK45} {Design4 local}

Step 5. **Design4**, doesn't have any technology associated with it. We need to have **NCSU_TechLib_FreePDK45** technology linked to it correctly.

Step 6. Go to **<Your_Designs_install_Path>/Wrong_ Designs/Design_4/** and make a copy of **lib.defs** to **lib.defs.bak** so that you have a backup.

Step 7. Go to **<Your_Designs_install_Path>/Wrong_ Designs/Design_4/** do RMB on **lib.defs** file and open with notepad.

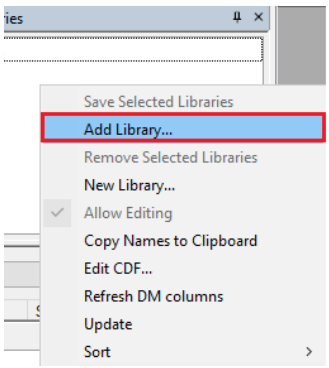
Remove the highlighted lines and save the file.



Step 8. Open **<Your_Designs_install_Path>/Wrong_ Designs/Design_4/ lib.defs** in S-Edit.

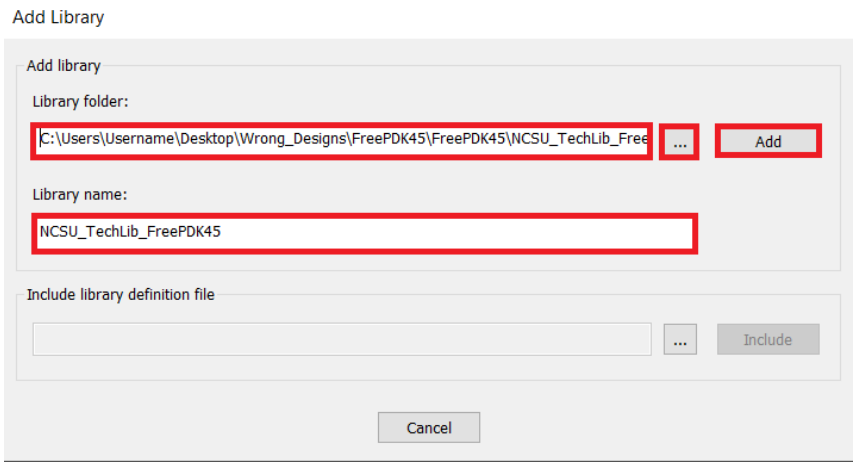
Observe there is no more error in the command line.

Step 9. Do RMB on Library Navigator and choose **Add Library…**

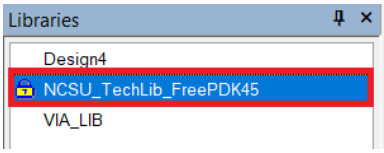


Step 10. Click Navigate to the provided Technology library path location **<Your PDK path>\FreePDK45\lib.defs**

Click **Add.**



Step 11. Make sure a new **NCSU_TechLib_FreePDK45** technology is added in **Library Navigator.**



Step 12. Open any cell view from **NCSU_TechLib_FreePDK45** PDK.

Step 13. Use **tech report -all.**

Observe the comment from the command line:

 # SED {VIA_LIB references NCSU_TechLib_FreePDK45} {Design4 local} {NCSU_TechLib_FreePDK45 local}

Note. For additional details on tech report command, type "**tech report -help**" from S-Edit command line.

Step 14. Use **tech report -library Design4 -attach NCSU_TechLib_FreePDK45**

Observe the comment from the command line:

 # SED Technology saved: "Design4" attaches tech library "NCSU_TechLib_FreePDK45".

Step 15. Use **tech report -all.**

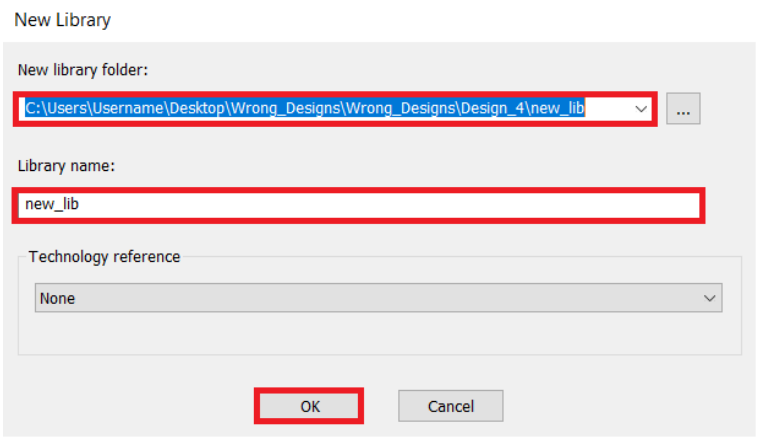
Observe the comment from the command line:

 # SED {VIA_LIB references NCSU_TechLib_FreePDK45} {Design4 attaches NCSU_TechLib_FreePDK45} {NCSU_TechLib_FreePDK45 local}

So that means the technology is linked correctly.

Step 16. Now try to create another library say **new_lib** and reference the tech library **NCSU_TechLib_FreePDK45.**

Step 17. Go **File>New>New Library..** Click **OK.**



Step 18. Use **tech report -library new_lib -reference NCSU_TechLib_FreePDK45**

Observe the comment from the command line:

 # SED Technology saved: "new_lib" references tech library "NCSU_TechLib_FreePDK45"

Step 19. Use **tech report -all**

Observe the comment from the command line:

 # SED {VIA_LIB references NCSU_TechLib_FreePDK45} {Design4 attaches NCSU_TechLib_FreePDK45} {NCSU_TechLib_FreePDK45 local} {new_lib references NCSU_TechLib_FreePDK45}

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