

SILVACO

TonyPlot3D

Release Notes

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1:Version 3.8.4.R

1.1: Adding Backup Material Name

This version is compiled with SDB_1_10_13_R, which allows adding backup material name.

2:Version 3.8.3.R

2.1: Cutplane Settings File

The cutplane settings file contains the settings and coordinates of the cutplane. This file is created after saving a cutplane. To do this, select **File**→**Save Set File**.

If you want to see a previously saved cutplane, then you need to load the cutplane settings file. There are two ways to load the cutplane settings file. The first way is by using the command line. To do this, type `tonyplot3d -V 3.8.3.R structure.str -set cutplane.set`. The second way is by using the

GUI. To do this, select **File**→**Load Set File** to select a file. Then, press .

You can also change the cutplane by changing the information in the cutplane settings file. There are two ways to change the file. The first way is change it in a text editor. The following shows the information you would need to change.

```
#begin of file
#Cut Plane Set File
#Put any comment after #

#Pan, Pitch and Elevation definition

PAN 180
PITCH 132
ELEV -0.5

#Three points which define the cut plane

point_1 0.0 0.0 0.0
point_2 1.0 0.0 0.0
point_3 0.0 1.0 0.0

EOF

#end of file
```

The second way is to change the file in the GUI. To do this, load the cutplane settings file, change the settings in the Cutplane Dialog, and select **File**→**Save Set File** to a specific file name. When a cutplane settings file is loaded, the initial cutplane position is defined with **PAN**, **PITCH**, and **ELEV**. If you want to use the three points to define the cut plane, then click the **Update** button.

Once you've obtained the desired plane, you can export it directly to a file or TONYPLOT by using the Export Slice Dialog. Press the **Export** button to open the Export Slice Dialog. If it's going to be exported to a file, enter the file name in the appropriate box.

3:Version 3.8.1.R

3.1: Resolving Issues on Linux Platforms

TONYPLOT3D requires a functioning OpenGL graphics subsystem.

If when running TONYPLOT3D, an error appears such as

```
Unable to resolve GL/GLX symbols - please check your GL library
installation.
```

Then `/usr/lib64` and `/usr/lib` are probably missing `libGL.so`, `libGLX.so` or `libXmu.so`.

These can be fixed by

```
cd /usr/lib64    (for 64bit systems) or
cd /usr/lib      (for 32bit systems)

ln -s libGL.so.1 libGL.so
ln -s libGLU.so.1 libGLU.so
ln -s libXmu.so.6 libXmu.so
```

For best performance, Silvaco recommends that you install vendor approved drives for your graphics card.

3.2: Using the -nohw Switch

By default, TONYPLOT3D tries to use any acceleration it can find. If your system does not support hardware OpenGL, then run TONYPLOT3D with the switch `-nohw`. For example:

```
tonyplot3d -nohw
```

4:Version 3.8.0.R

4.1: New Features

- Added capability to define Junction IsoSurface with impurity value = 0 for Net Doping.

4.2: Enhancements

- Fixed the problem in Hydrostatic Pressure legend area with correct unit.
- Defined the cutplane's initial position on the border of the geometry bounding box and the paralleling to X-Z coordinate plane. This can save time for big structure files with the cutplane located in the middle of bounding box.

5:Version 3.6.1.R

5.1: New Features

- You can now change the material colors. You can also save these changes and use them for other structure files.

- You can now define the cutplane with three specified points in the Cutplane View Window.
- You can now export the cutplane to TONYPLOT with an unique informatic format name.

6:Version 3.4.R

6.1: Enhancements

- **5209** - Fixed skewed Y-axis and unidentified cutplane when loading certain structures on Linux 64-bit.
- Fixed the problem with the color selection of user-defined materials.

7: Version 3.0.26.A

7.1: New Features

- The User's Manual and the Release Notes are now accessible from the **Help** menu of TONYPLOT3D as pdf files.
- Now support for sflm6.

8: Version 3.0.19.R

8.1: Enhancements

- When an IsoSurface is created, the **Minimum** and **Maximum** quantities in the IsoSurface Paged Panel of the IsoSurface Display Mode Options Dialog is not reset to the values of the first **Quantity** (FL 07-30-2002).
- The Region Numbers assigned to regions in the Object Editor match the region numbers of the structure file, i.e., r lines (FL 08-08-2002).
- Prevented TONYPLOT3D to core dump when loading the structure file mos2ex04_1.str taken from Silvaco's examples.

9: Version 3.0.15.R

9.1: New Features

- TONYPLOT3D now creates the Silvaco's resource file ~/.masterrc if it doesn't exist and doesn't exit (FL 06-17-2002).

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