

## Documentation

Refer to the [Calibre RVE User's Manual](#) for information on Calibre RVE for PERC.

## Application Launch

From a layout or schematic editor choose:

**Start RVE** from **Calibre**, **Tools**, or **Verification** menu.

From left panel of Calibre Interactive:

Start RVE

From the command line:

```
calibre -rve
calibre -rve -perc path_to_SVDB [TOPCELL]
calibre -rve -perc path_to_DFMDB [TOPCELL]
```

## Connecting to a Layout or Schematic Editor

- Connection to a layout or schematic editor is made automatically when you start Calibre RVE from the editor or from Calibre Interactive with an editor connected to the Calibre Interactive session.
- For instructions on making a manual connection to an editor, see the [Calibre RVE User's Manual](#).

## Running Calibre PERC

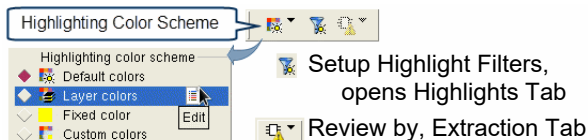
The [Calibre PERC User's Manual](#) describes how to set up and run Calibre PERC.

The -property argument to the perc::report\_base\_result command is useful for adding properties to a result. The properties can be used to sort and filter the results in Calibre RVE.

A Calibre PERC run with topology or voltage rule checks produces an SVDB database.

A Calibre PERC LDL run produces a DFM Database, and optionally an SVDB.

## PERC Toolbar



The **Highlighting Color Scheme** applies to all objects. The settings in the **Highlights** tab apply to connectivity objects (nets, devices, and ports). The **Highlights** tab and the "Layer colors" color scheme are not available for source-based topological Calibre PERC results.

Color Scheme:

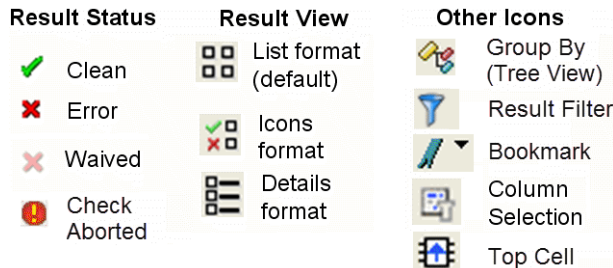
**Default colors** — Cycles through the default set of highlight colors.

**Layer colors** — Uses a separate highlight color for each design layer.

**Fixed color** — Uses a single color for all highlights.

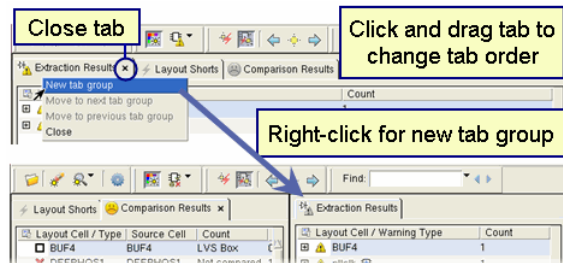
**Custom colors** — Cycles through a custom set of highlight colors.

## Other Icons



## Tabbed Views

Results and reports are arranged in tabs. Right-click for a tab control menu.

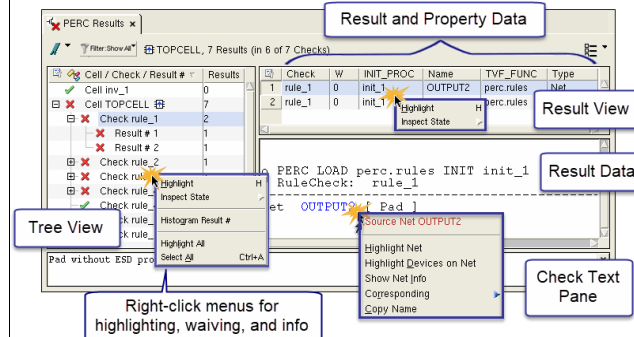


Tab groups make side by side comparison easier.

## Calibre PERC Results

The tab icon shows the final run status:

Clean ✓, Error ✗, Aborted ✗, PERC Info ⓘ



Select **Highlight > Setup Highlights** to set highlight filters for a layout-based Calibre PERC run.

See [Grouping Results in the Tree View](#) and [Filtering Results](#) on the next page.

Also see "Viewing Separate Placements of a Result in the PERC Results Tab" in the manual.

## Waiving Results

For topological Calibre PERC runs.


1. Select options on the **Setup > Options > Waivers** pane.
2. Waive a result by selecting the result or group, then right-click and select **Inspect State > Waive**.
3. Select **Tools > Export PERC Waiver Description File**.
4. Specify the exported waiver description file with the PERC Waiver Path statement in your rule file.


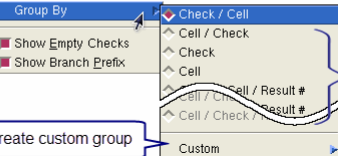
## Histograms

Select **View > Histogram**, or right-click in the tree view to create a histogram of property data.

Properties are added with the -property argument to the perc::report\_base\_result command in Calibre PERC runs. Calibre PERC LDL results automatically include properties such as the current density or resistance.

## Grouping Results in the Tree View

Use the **Group By** button , or the **View > Tree Options > Group By** menu selections to specify the grouping in the tree view.

**Group By** button:  **Group By** menu: 

**Results grouped**

**Results grouped by Statistics**

**Results grouped by property value using**

**Click at top to set hierarchy**

## Filtering Results

Use the filters to select a subset of the data for focused analysis.

**Filter button and indicator - only checks meeting criteria are shown**

**Filter: Check Name: "sink"**

**Use wildcards for check and cell**

**Hover over custom filter for edit and delete**

**Create and save custom filters**

**Hover over any filter for definition**

## Viewing Calibre PERC LDL Results

Calibre RVE for PERC automatically opens all result databases that are produced by the Calibre PERC LDL run.

**Results and properties in table format.**

**Select Result View**

**Result View - Details Format**

**Click item to highlight or view context**

**Tree view**

**Results Data Pane**

**Use the property menus in the Results Data pane to highlight.**

**Click the property text to display a popup menu that includes histogram, colormap, and sort options.**

**Click the object text to highlight it.**

Set highlight colors for PERC LDL:

- **Highlighting color scheme** (see PERC Toolbar)

**Highlighting color scheme**

☒ Default colors ☐ Layer colors ☐ Fixed color ☐ Custom colors

**Use default colors while highlighting**

- **Highlight > Setup Highlights** — Set highlight colors and filters for connectivity objects.

## Miscellaneous

You can use these features from Calibre RVE for LVS:

- **Navigator Pane** — Easy access to reports and tools.
- **Info Pane** — Detailed information on layout design elements presented in a tree view.
- **Finder Tab** — Search and search filter selections.

Select **View** to open each of these tools.

Also see [“Links to Custom Reports in Calibre RVE for PERC”](#) in the manual.

## Internal Schematic Viewing

The internal schematic viewer uses schematic rendering for both source and layout schematic viewing.

- Turn off automatic opening of the internal schematic viewer by disabling “Show netlist schematics on highlighting” on the **Setup > Options > Schematic Viewer** pane.
- See the **Setup > Options** tab for additional settings.

**Toolbar**

**Find bar**

**Schematic navigation icons**

**Hierarchy tree**

**Netlist Viewer**

## Schematic Navigation

The following keyboard shortcuts and mouse actions are available in the Internal Schematic Viewer:

Keyboard Shortcuts	
Fit in window	Home
Pan	Arrow keys, Page up, Page down
Left Mouse Button Actions	
Highlight net or pin	Click on net or pin
Draw connected nets	Double-click on pin
Draw (expand) cell contents	Double-click on cell outline
Collapse cell	Double-click on outline of expanded cell
Right Mouse Button (RMB) Actions	
Highlight element	RMB > Highlight
Remove highlight	RMB > Unhighlight
Other context-sensitive actions	Click RMB on element