

## SpiceVision PRO

The new features are:

- \* Update the appearance of the GUI.
- \* The Search window caches the last search strings and provides autocompletion for repeated queries. A selection menu provides fast access to the cached search queries.
- \* Show the Visualizer selection in the Print, Save Schematic as Image, Export EDIF and Export Skill dialogs only if there is at least one additional Visualizer visible.
- \* Fix merging design files with a binary library that contains blackbox cells.
- \* The configuration options from the 'Visu' tab of the Preferences dialog moved to the 'Misc' Misc tab.
- \* Comments can be added to all objects.
- \* Add the possibility to specify trace through cells for incremental navigation in the Cone window.
- \* Enhance the flat foreach pin loop by the option `-addHier` to process hierarchical pins and ports.
- \* Add support to drop objects on a tab of the Visualizer.
- \* Add more shapes to the graphical marks.
- \* New GUI API function `Gui:DoubleClick` to register a customer specific double click binding.
- \* The behavior of the GUI API function `Gui:RegisterDataBaseChanged` has changed. Now the registered procedure is called before the schematic is rendered. If the registered Userware procedure needs to access the Schem window then the GUI API procedure `Gui:SetCurrentModule` needs to be called before.
- \* Add the Spice related command line option `'-bulk'` with the same functionality as the operator `$db oper bulk`.
- \* Swap the key binding for the page navigation in the Schem and Cone window. The `'PgUp'` key jumps to the next schematic page and the `'PgDown'` key to the previous.
- \* The pane tab elements divided by splitters are no longer covered while moving the splitters.
- \* Fix the command and file completion in the Console window for cases where a file or directory with the name of a matched command exists.
- \* Fix the command and file completion in the Console window on Windows for cases where the entered text contains illegal characters for a file or directory.
- \* Add the option to draw transistor devices on the schematic grid.
- \* Priority of node entries in Read Spice dialog changed.
- \* Fix skill export: symbols with permuted ports now have different view names.
- \* Blackbox instances are displayed in the color defined for greymode in the Schem, Cone and Source window.
- \* Support horizontal scrolling in Schem, Cone and Minimap window with mouse wheel and the shift key.
- \* Support for CONLY format in DSPF added.
- \* DSPF parser tries to guess primitive instances instead of subckts in instance section.
- \* Fix the GUI API procedure `Gui:CustomizePopup`: the wrong popup menu path was added to the callback.
- \* Increase default value for the "Big Module Limit" to 45000 objects.

## SGvision PRO

The new features are:

- \* Update the appearance of the GUI.
- \* The Search window caches the last search strings and provides autocompletion for repeated queries. A selection menu provides fast access to the cached search queries.
- \* Show the Visualizer selection in the Print, Save Schematic as Image, Export EDIF and Export Skill dialogs only if there is at least one additional Visualizer visible.
- \* Combine the two dialogs Read Verilog and Read Edif into one single dialog window.
- \* Fix merging design files with a binary library that contains blackbox cells.
- \* The configuration options from the 'Visu' tab of the Preferences dialog moved to the 'Misc' Misc tab.
- \* Comments can be added to all objects.
- \* Add the possibility to specify trace through cells for incremental navigation in the Cone window.
- \* Enhance the flat foreach pin loop by the option `-addHier` to process hierarchical pins and ports.
- \* Add support to drop objects on a tab of the Visualizer.
- \* Add more shapes to the graphical marks.
- \* New GUI API function `Gui:DoubleClick` to register a customer specific double click binding.
- \* The behavior of the GUI API function `Gui:RegisterDataBaseChanged` has changed. Now the registered procedure is called before the schematic is rendered. If the registered Userware procedure needs to access the Schem window then the GUI API procedure `Gui:SetCurrentModule` needs to be called before.
- \* The option 'Display FFs in columns' to display the result of a CDC search in the Clock Tree Analyzer window was not working correctly.
- \* Add the Spice related command line option `'-bulk'` with the same functionality as the operator `$db oper bulk`.
- \* Swap the key binding for the page navigation in the Schem and Cone window. The 'PgUp' key jumps to the next schematic page and the 'PgDown' key to the previous.
- \* The pane tab elements divided by splitters are no longer covered while moving the splitters.
- \* Fix the command and file completion in the Console window for cases where a file or directory with the name of a matched command exists.
- \* Fix the command and file completion in the Console window on Windows for cases where the entered text contains illegal characters for a file or directory.
- \* Add the option to draw transistor devices on the schematic grid.
- \* Priority of node entries in Read Spice dialog changed.
- \* Fix skill export: symbols with permuted ports now have different view names.
- \* Blackbox instances are displayed in the color defined for greymode in the Schem, Cone and Source window.
- \* Support horizontal scrolling in Schem, Cone and Minimap window with mouse wheel and the shift key.
- \* Support for CONLY format in DSPF added.
- \* DSPF parser tries to guess primitive instances instead of subckts in instance section.

- \* Fix the GUI API procedure Gui:CustomizePopup: the wrong popup menu path was added to the callback.
- \* Increase default value for the "Big Module Limit" to 45000 objects.

## **RTLVision PRO**

The new features are:

- \* Update the appearance of the GUI.
- \* The Search window caches the last search strings and provides autocompletion for repeated queries. A selection menu provides fast access to the cached search queries.
- \* Show the Visualizer selection in the Print and Save Schematic as Image dialogs only if there is at least one additional Visualizer visible.
- \* Fix merging design files with a binary library that contains blackbox cells.
- \* The configuration options from the 'Visu' tab of the Preferences dialog moved to the 'Misc' Misc tab.
- \* Comments can be added to all objects.
- \* Add the possibility to specify trace through cells for incremental navigation in the Cone window.
- \* Enhance the flat foreach pin loop by the option -addHier to process hierarchical pins and ports.
- \* Add support to drop objects on a tab of the Visualizer.
- \* Add more shapes to the graphical marks.
- \* New GUI API function Gui:DoubleClick to register a customer specific double click binding.
- \* The behavior of the GUI API function Gui:RegisterDataBaseChanged has changed. Now the registered procedure is called before the schematic is rendered. If the registered Userware procedure needs to access the Schem window then the GUI API procedure Gui:SetCurrentModule needs to be called before.
- \* The option 'Display FFs in columns' to display the result of a CDC search in the Clock Tree Analyzer window was not working correctly.
- \* Swap the key binding for the page navigation in the Schem and Cone window. The 'PgUp' key jumps to the next schematic page and the 'PgDown' key to the previous.
- \* The pane tab elements divided by splitters are no longer covered while moving the splitters.
- \* Fix the command and file completion in the Console window for cases where a file or directory with the name of a matched command exists.
- \* Fix the command and file completion in the Console window on Windows for cases where the entered text contains illegal characters for a file or directory.
- \* The RTL parser no longer renames long cell names (e.g. parameterized cells).
- \* Blackbox instances are displayed in the color defined for greymode in the Schem, Cone and Source window.
- \* Support horizontal scrolling in Schem, Cone and Minimap window with mouse wheel and the shift key.
- \* Fix the GUI API procedure Gui:CustomizePopup: the wrong popup menu path was added to the callback.
- \* Verilog and VHDL parser use ReadPort/WritePort operators and special RamNet to represent multi-port RAM behavior for smaller netlists.

- \* Increase default value for the "Big Module Limit" to 45000 objects.

## **GateVision PRO**

The new features are:

- \* Update the appearance of the GUI.
- \* The Search window caches the last search strings and provides autocompletion for repeated queries. A selection menu provides fast access to the cached search queries.
- \* Show the Visualizer selection in the Print, Save Schematic as Image and Export EDIF dialogs only if there is at least one additional Visualizer visible.
- \* Combine the two dialogs Read Verilog and Read Edif into one single dialog window.
- \* Fix merging design files with a binary library that contains blackbox cells.
- \* The configuration options from the 'Visu' tab of the Preferences dialog moved to the 'Misc' Misc tab.
- \* Comments can be added to all objects.
- \* Add the possibility to specify trace through cells for incremental navigation in the Cone window.
- \* Enhance the flat foreach pin loop by the option `-addHier` to process hierarchical pins and ports.
- \* Add support to drop objects on a tab of the Visualizer.
- \* Add more shapes to the graphical marks.
- \* New GUI API function `Gui:DoubleClick` to register a customer specific double click binding.
- \* The behavior of the GUI API function `Gui:RegisterDataBaseChanged` has changed. Now the registered procedure is called before the schematic is rendered. If the registered Userware procedure needs to access the Schem window then the GUI API procedure `Gui:SetCurrentModule` needs to be called before.
- \* The option 'Display FFs in columns' to display the result of a CDC search in the Clock Tree Analyzer window was not working correctly.
- \* Swap the key binding for the page navigation in the Schem and Cone window. The 'PgUp' key jumps to the next schematic page and the 'PgDown' key to the previous.
- \* The pane tab elements divided by splitters are no longer covered while moving the splitters.
- \* Fix the command and file completion in the Console window for cases where a file or directory with the name of a matched command exists.
- \* Fix the command and file completion in the Console window on Windows for cases where the entered text contains illegal characters for a file or directory.
- \* Blackbox instances are displayed in the color defined for greymode in the Schem, Cone and Source window.
- \* Support horizontal scrolling in Schem, Cone and Minimap window with mouse wheel and the shift key.
- \* Fix the GUI API procedure `Gui:CustomizePopup`: the wrong popup menu path was added to the callback.
- \* Increase default value for the "Big Module Limit" to 45000 objects.