

PSIM Revision

Current Version	9.1.3
Previous Version	9.1.1

Revision/Fix	Description
TI F28335 Target: PWM generators	New: In TI F28335 Target, a new parameter is added to 1-phase PWM and single PWM (APWM) to set the phase shift. With this feature, it is possible to generate phase-shifted PWM outputs.
TI F28335 Target: PWM generator	Revision: For 1-phase PWM with external phase shift input, previously the input was from 0 to 1. Now, the input is in degree, from 0 to 360°.
TI F28335 Target: PWM generator	Revision: For 3-phase, 1-phase, and single PWM, an option is provided to start the PWM output either high or low. In another word, when the modulation wave is larger than the carrier wave, one can define if the PWM output is either high or low.
Code generation	Revision: By default, PSIM is installed under the folder "Program Files" or "Program Files (x86)". In Windows Vista or 7, PSIM cannot create or modify files in this folder unless it is running in the administrator mode. If PSIM is not running in the administrator mode, for auto code generation, previously the generated code was placed under "C:\Users\{user_name}\AppData\Local\Temp". Now it will be placed under "C:\Users\{User_name}\Documents\PSIM".
Handling warning messages	Revision: The way warning messages are handled is improved. With the change, if a circuit generates a lot of warning messages during the simulation, the time required to handle the warning messages is much shorter, resulting faster simulation.
Extrapolation in Thermal Module	Revision: In device curves in the Thermal Module (for example, the forward characteristics V_F vs. I_F for diodes), previously extrapolation is done when the actual device current is less than the minimum current I_{min} in the curve (the first point). Now, the extrapolation is also done when the device current is greater than the maximum current I_{max} in the curve (the last point).
"Save As" function	Revision: Previously, when one selects "File >> Save As" in PSIM to save a schematic file to a different file (or even to the same file), PSIM would save without giving any warning messages. This behavior is changed so that a warning message is always given for the "Save As" function.
Open file in Windows Explorer	Bug fix: When double clicking on a schematic file in Windows Explorer, PSIM would crash.
Save-all function	Bug fix: If the save-all function (in "Options >> Settings >> General") is enabled, after one simulation, if the schematic is changed, PSIM cannot open the schematic.
Level-1 MOSFET	Bug fix: The Level-1 MOSFET model does not work.
Squirrel-cage induction machine with neutral	Bug fix: There is a bug in the implementation of the model which may result in computation convergence failure.
MagCoupler-RT blocks	Bug fix: If a circuit contains a RT block and a C or DLL block, if the RT block does not appear first in the netlist, PSIM would crash.
Switch gating block	Bug fix: When there are too many points in a switch gating block, PSIM would crash.
Runtime display in ac sweep	Bug fix: When running a circuit in ac sweep, runtime graphs do not show any waveforms.
3-phase branches	Bug fix: When a circuit contains too many branches of 3-phase branches L3 or C3, PSIM would crash.