

NCV8901xx PSPICE average transient simulation model

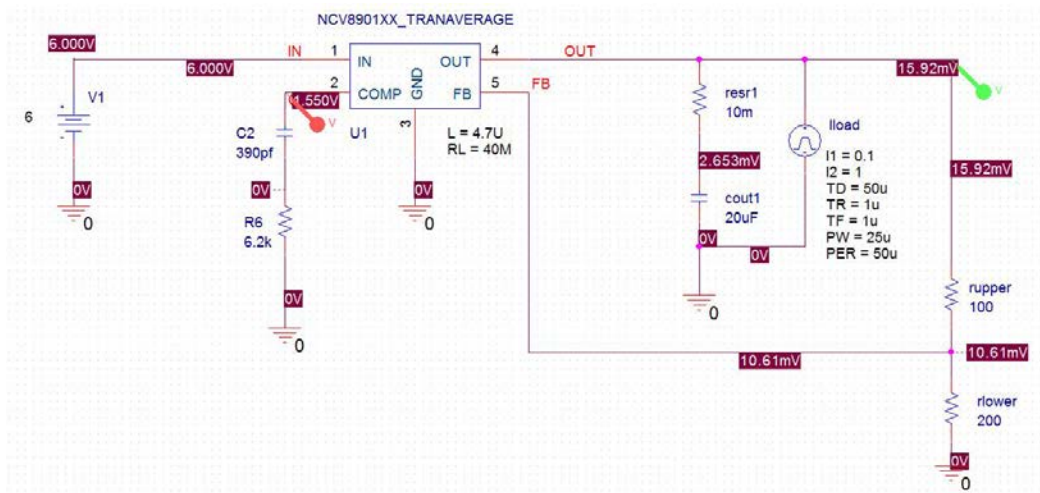
This model is intended to be used in fast transient simulations, when average behavior is of interest (such as load steps). This model doesn't simulate cycle-by-cycle behavior (no switching), and doesn't include soft-start, frequency foldback or short-circuit protections.

It already includes the inductor (inductor value and series resistance are parameters to be fed to the model).

External components that must be added for a complete, closed-loop simulation are:

- Input voltage source
- Output capacitor with series resistance
- Output load
- Feedback divider
- Compensation components (series resistance-capacitance to ground)

Example of a test bench for the model (provided in the zip file):



Example of transient results:

