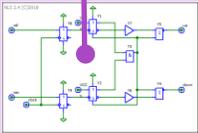
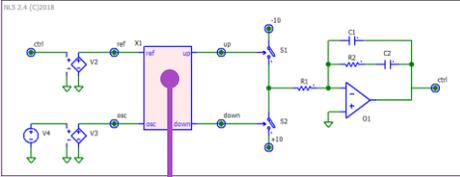


Mixed-Signal

analog



digital



C



DLL

Our customers...



...and what they say about NL5

It was a matter of hours to discover the powerfulness behind the simplicity of NL5...

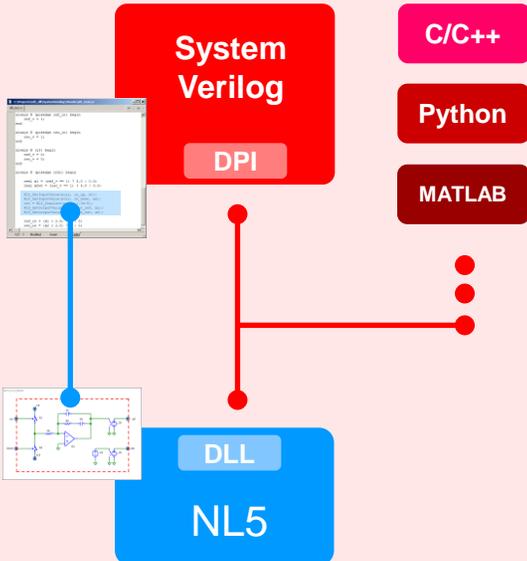
...Just tried it and never wanted to return to SPICE again. All convergence problems were gone and speed increased dramatically!

My opinion is that NL5 is the best program for simulation of any types of power stages...

...NL5 allows me to focus more time on product development activities and less time on solving SPICE simulation convergence problems...

...NL5 is a circuit simulator that just works. It is a rare example of a program that is both easy to get started on and does not break down when your model starts to get complicated.

Co-Simulation

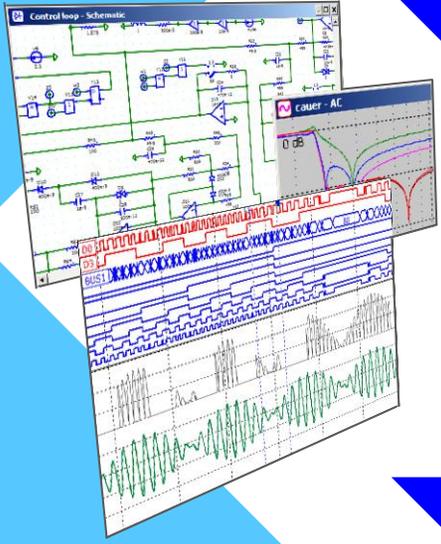




NL5

Circuit Simulator

ideal simulation
for real design





nl5.sidelinesoft.com



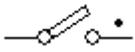
sidelinesoft
sidelinesoft.com
© 2018



NL5 is an analog circuit simulator working with **ideal** and piecewise-linear components.

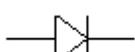
• Ideal components

switch



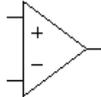
$R = 0$
 $R = \infty$

diode



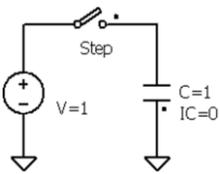
$V = \text{const}$
 $I = 0$

amplifier



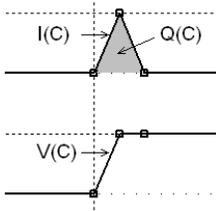
gain = ∞

• Instantaneous switching



An ideal switch in NL5 has instantaneous switching time. NL5 is able to simulate processes where infinitely short current and voltage pulses with infinite amplitude may occur.

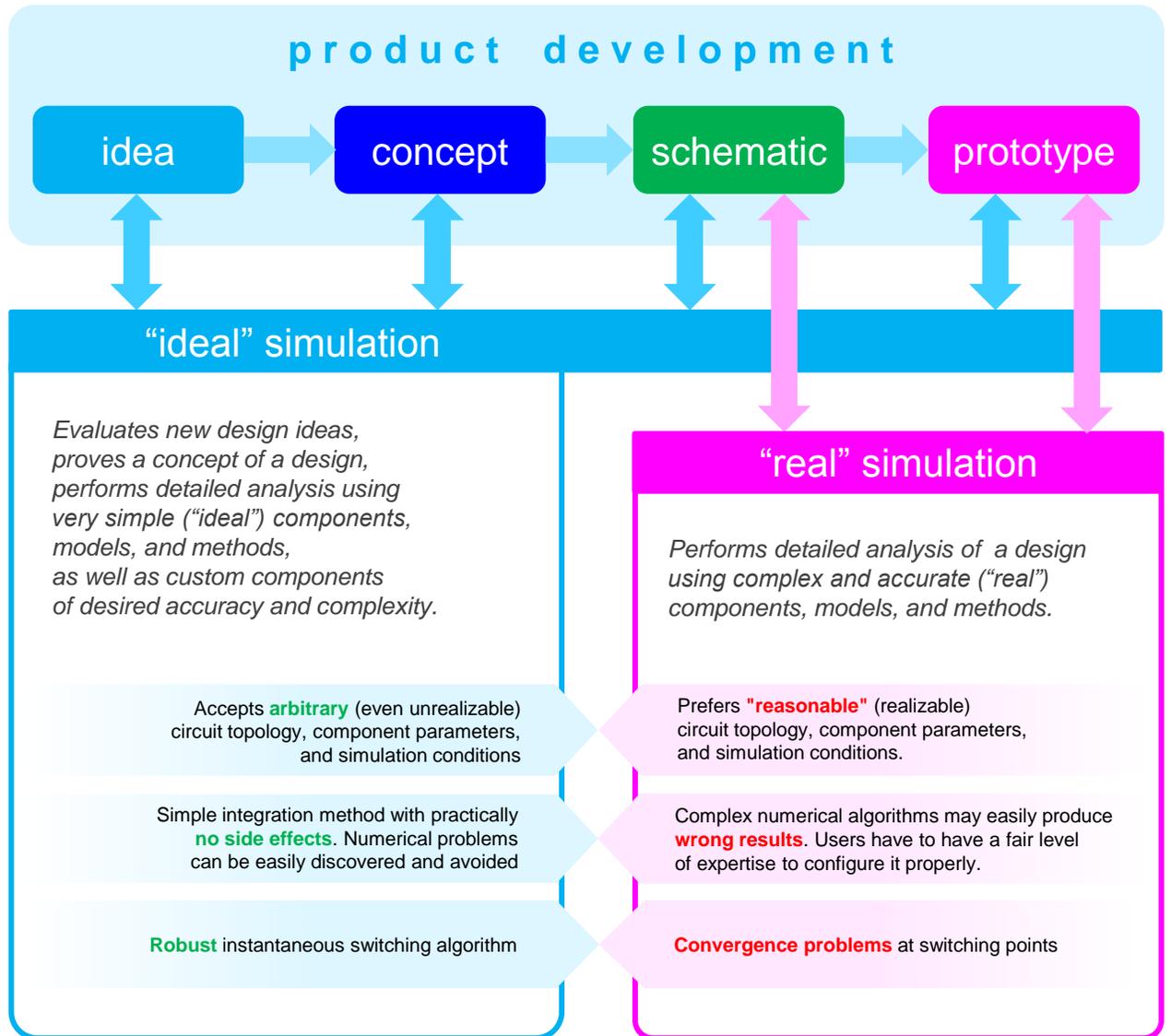
Such a pulse is displayed in NL5 as a triangle pulse which exists only at one calculation step, and its area satisfies charge or magnetic flux conservation law.



• With ideal components, you can:

- iterate design ideas and prove a concept of a design prior to detailed analysis;
- separate actual schematic issues from inevitable errors of simulation algorithms, methods, and models;
- obtain reliable preliminary results very fast.

product development



NL5

SPICE