

## ***Closing Software Company Makes Its Simulator Free***

After 39 years in business, [Spectrum Software](#), provider of the Micro-Cap simulator, has closed its business, effective July 4, 2019, and has made Micro-Cap available for free. You can download the latest versions of Micro-Cap [here](#).

Users have a choice of either the executable program or the entire installation CD for MC10, MC11, and MC12. If you have an earlier version, download and use MC12. These new versions do not require the security key, so they make Micro-Cap free to the entire engineering community.

Micro-Cap 12 is an integrated schematic editor and mixed analog/digital simulator that provides an interactive sketch and simulate environment for electronics engineers. Since its original release in 1982, Micro-Cap has been steadily expanded and improved. Micro-Cap 12, the twelfth generation, blends a modern, intuitive interface with robust numerical algorithms to produce unparalleled levels of simulation power and ease of use, says the vendor.

Algorithmic improvements, optimized code, and an integrated, seamless, analog/digital simulation interface contribute to the speed of Micro-Cap 12. Numerous features contribute to Micro-Cap 12's power. Among them are:

- Integrated schematic editor and simulator.
- Dynamic analysis updates waveforms and curves as you edit
- Native digital simulator
- Worst-case analysis to find the statistical and extreme limits of performance
- Smoke analysis to assess how close the circuit is to violating maximum operating limits.
- Periodic steady-state analysis
- Integral circuit optimizer with multiple optimization methods
- Integrated active and passive filter design function
- Device library with over 33,000 parts
- Analog and digital behavioral modeling
- Schematic waveform probing
- On-schematic voltage/state, current, power, and condition display
- During the run plotting
- Smith chart / Polar plots.
- Multidimensional parameter stepping
- Monte Carlo analysis
- 3D plotting
- Performance functions and plots
- .Measure functions to measure circuit behavior
- Optimizing parts modeler

- Gummel-Poon, Mextram and Modella bipolar models
- Berkeley BSIM 1, BSIM 2, BSIM3, and BSIM4 MOSFET models
- The latest Philips device models, including MOS 11, 20, 31, 40, and PSP 102
- Hefner IGBT model
- IBIS model translator
- Animated LEDs, switches, bars, meters, relays, stoplights, and dc motors
- Sample and hold, timer, and Z-transform devices
- Lossy transmission lines
- Jiles-Atherton nonlinear magnetics model
- PCB interface to popular packages
- LAN version for collaborative projects
- Transient analysis for investigating time domain circuit behavior
- AC analysis for investigating small signal behavior
- DC analysis for plotting static dc variables
- Transfer function analysis for calculating the dc transfer function
- Stability analysis to find the stability limits for linear circuits
- Harmonic distortion analysis
- Intermodulation distortion analysis
- Extensive mathematical operators and variables.

The graphical, user-friendly interface is simple to learn and use. Familiar SPICE models, plus extensions, are easy to apply. Over 500 warnings and messages help you through problems, when the error occurs, not later in a text file. Micro-Cap 12 plots waveforms during the run, not after the run, when it is too late to change critical values. For more information, see the [website](#).