

Why should I upgrade?



Top 5 Features

- 1,200+ new components and 500+ new models
- Mouse control of interactive components
- Convergence assistant for resolution of simulation errors
- C and assembly language support for MCU co-simulation
- Single-symbol digital components

Learn More at ni.com/academic/circuits

Upgrade to Version 10

Request a quotation today.

US/Canada Call **800.263.5552**

International Call your local NI office – ni.com/global



U.S. Corporate Headquarters (800) 813 3693

Worldwide Offices: Andean and Caribbean 58 212 5035310 • Argentina 0800 666 0037 • Australia 1 800 300 800 • Austria 0662 45 79 90 0 • Belgium 02 757 00 20 • Brazil 55 11 3262 3599
Canada 800 263 5552 • Chile 800 532 951 • China 021 6555 7838 • Czech Republic/Slovakia 420 224 235 774 • Denmark 45 76 26 00 • Finland (09) 725 725 11 • France 01 48 14 24 24
Germany 089/741 31 30 • Hungary 36 23 501 580 • India 1 800 425 7070 • Ireland 01 867 4374 • Israel 03 6393737 • Italy 02 413091 • Japan 03 5472 2970 • Korea 02 3451 3400
Lebanon 961 (0) 1 33 28 28 • Malaysia 1800 88 7 710 • Mexico 01 800 010 0793 • Netherlands 0348 433466 • New Zealand 0800 553 322 • Norway 66 90 76 60 • Poland 48 22 3390150
Portugal 210 311 210 • Russia 7 495 783 68 51 • Singapore 1800 226 5886 • Slovenia/Croatia, Bosnia/Herzegovina, Serbia/Montenegro, Macedonia 03 425 4200 • South Africa 11 805 8197
Spain 91 640 0085 • Sweden 08-587 895 00 • Switzerland 056 200 51 51 • Taiwan 886 2 2377 2222 • Thailand (662) 278 6777 • Uruguay 0004 055 114 • U.K. 01 635 523545

© 2007 National Instruments Corporation. All rights reserved. LabVIEW, Multisim, National Instruments, NI, ni.com, and Ultiboard are trademarks of National Instruments. Other product and company names listed are trademarks or trade names of their respective companies.



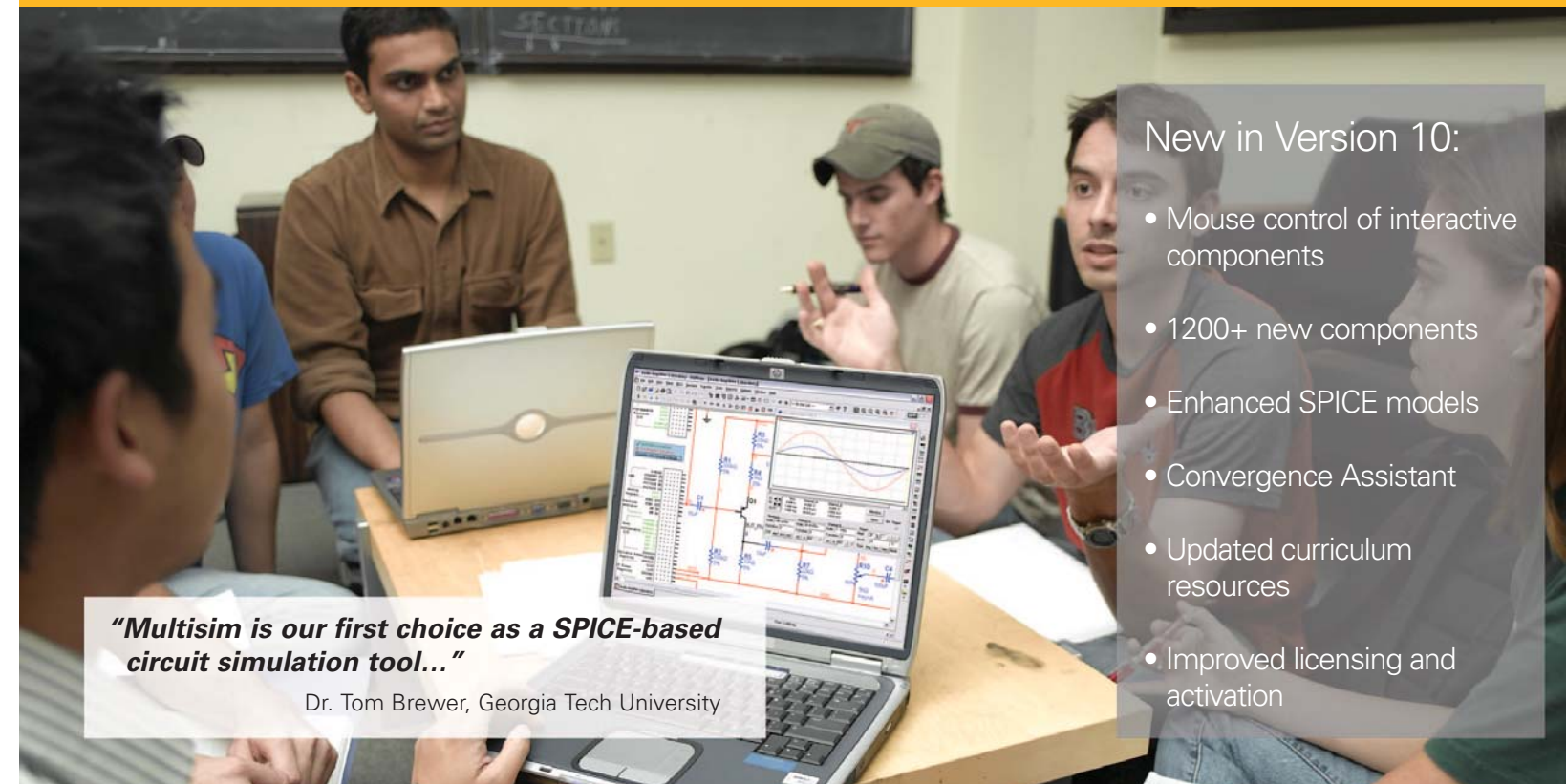
From the NI Electronics Workbench Group

NI Multisim Education 10.0

NI Multisim – SPICE Simulation

NI Multisim MCU Module – MCU Simulation

NI Ultiboard – PCB Layout



New in Version 10:

- Mouse control of interactive components
- 1200+ new components
- Enhanced SPICE models
- Convergence Assistant
- Updated curriculum resources
- Improved licensing and activation

"Multisim is our first choice as a SPICE-based circuit simulation tool..."

Dr. Tom Brewer, Georgia Tech University

NI Electronics Education Platform, now with Multisim 10.0

The National Instruments Electronics Workbench Group is pleased to announce the release of NI Multisim 10, the latest edition of the interactive SPICE simulation and circuit analysis software most widely used for teaching. NI Multisim 10 forms the foundation of the NI Electronics Education Platform.

The **NI Electronics Education Platform** includes NI Multisim, the NI ELVIS prototyping workstation, and NI LabVIEW and NI SignalExpress measurement software. This integrated hardware and software platform creates a comprehensive and integrated learning environment that includes simulation, breadboarding, measurement and analysis. Based on professional PCB design and simulation tools, the Electronics Education Platform addresses the needs of educators and aids student understanding through features such as virtual and rated components, easy measurements, 3D virtual breadboarding, integrated quizzes and more. For further information on the NI Electronics Education Platform, visit ni.com/academic/circuits.

Download a 30-day evaluation at ni.com/academic/circuits

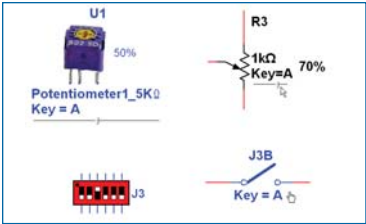


ni.com/academic/multisim

New in Multisim 10.0

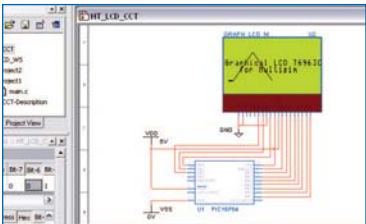
Improved Ease-of-Use for Educators

Multisim combines the strength of a professional tool with education-specific features designed in conjunction with professors and instructors. The result is a highly interactive, easy-to-use tool that helps students gain an in-depth understanding of circuit theory and behavior.



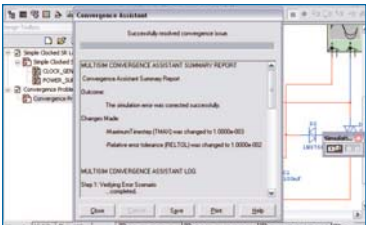
Mouse-Click Control for Increased Ease-of-Use

- Click on switches to toggle
- Push keypad buttons
- Adjust variable components, such as potentiometers, with a slider bar



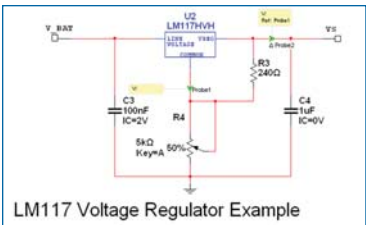
Improved Microcontroller (MCU) Simulation

- Co-simulate MCUs and SPICE for increased circuit comprehension
- Employ C-code support in addition to assembly language
- New 2-color, 256 x 256 LCD



Convergence Assistant

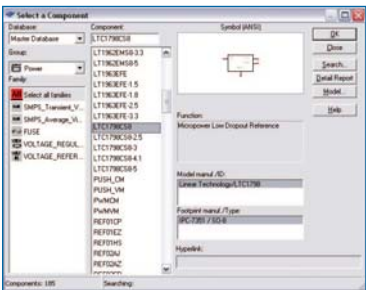
- Automatically resolves simulation errors
- No need to understand complex SPICE options and settings



Enhanced Data Visualization and Analyses

- New current probe instrument lets you visualize transient currents through wires
- Enhanced static probes allow referenced measurements, and can be used as an output from any analysis
- Initial conditions shown on schematics increase understanding of simulation behavior

Increased Quality and Breadth of the Component Database



- **1,200+ new components and 500+ new models** from Analog Devices, Texas Instruments, and Linear Technologies (symbols, models, and IPC-standard landpatterns)
- **New power simulation models** from Christophe Basso, author of the “Switch-Mode Power Supply SPICE Cookbook”
- **Passive component enhancements:** change parameters such as component tolerance or composition of any resistor, capacitor, or inductor placed on the schematic without replacing the part
- **New bipolar voltage and current sources**
- **Single-symbol digital components**

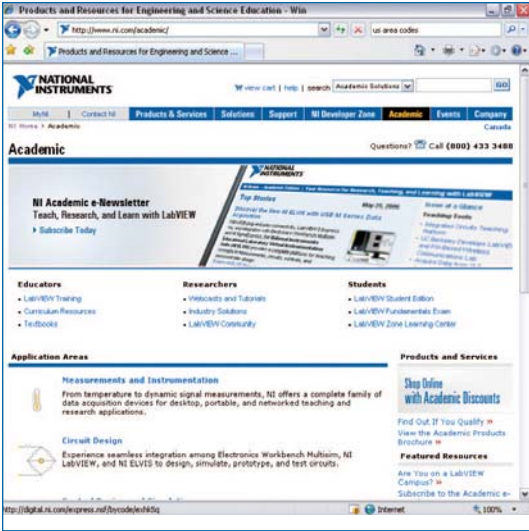
Additional Multisim Features Designed For Teaching

- Interactive SPICE environment that requires no difficult syntax
- 3D breadboard environment allows students to prototype virtually before going to the lab
- “Virtual” instruments that behave like their real-world counterparts
- Configure custom in-circuit quizzes to test student understanding
- Circuit restrictions and hidden faults to teach troubleshooting
- Ladder diagrams for controls theory

For full information, visit ni.com/academic/multisim

Continued Commitment to Electronics Education

The National Instruments Electronics Workbench Group provides educators with materials to help easily update and create curriculum, including lab exercises, courseware, training manuals, textbooks, multimedia demos, and online user forums.



Download Teaching Resources at ni.com/academic/multisim

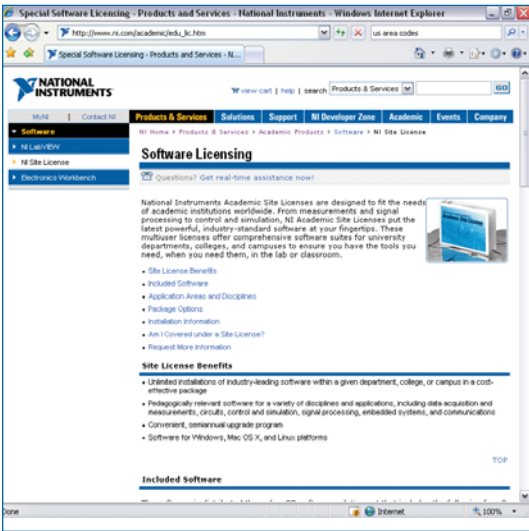
- **Courseware and Lab Manuals**
 - Practical Teaching Ideas
 - Understanding RF Circuits
- **Circuit Sets**
 - 150 Fundamental Circuits
- **Recommended Textbooks**
- **Online Tutorials**
- **Training**

What's New Since You Last Upgraded?

To compare features from Version 5 to Version 10, visit ni.com/academic/multisim

Improved Software Licensing and Activation

With Version 10, NI is pleased to announce highly flexible licensing and activation options for educators, including the new NI Academic Site License Circuits Option specifically designed for electronics education. Additionally, NI licensing and activation technology ensures simpler installation and maintenance of software at your facility.



NI Activation & Licensing Technology

- Streamlined and automated activation process
- Flexible licensing management and installations
- Student Install option

NI Academic Site License – Circuits Option

- Most economical bundling of NI circuit design software with flexible licensing
- Available in Department, College, and Campus editions
- Includes NI Multisim, NI Multisim MCU Module, NI Ultiboard, and NI SignalExpress
- Automatic discount on Circuits Option for active NI Site License holders
- **Call your local sales representative to discuss migrating to the Site License Circuits Option. Find sales contact information at ni.com/global**

View interactive tutorials and technical papers at ni.com/academic/circuits

ni.com/academic/multisim