

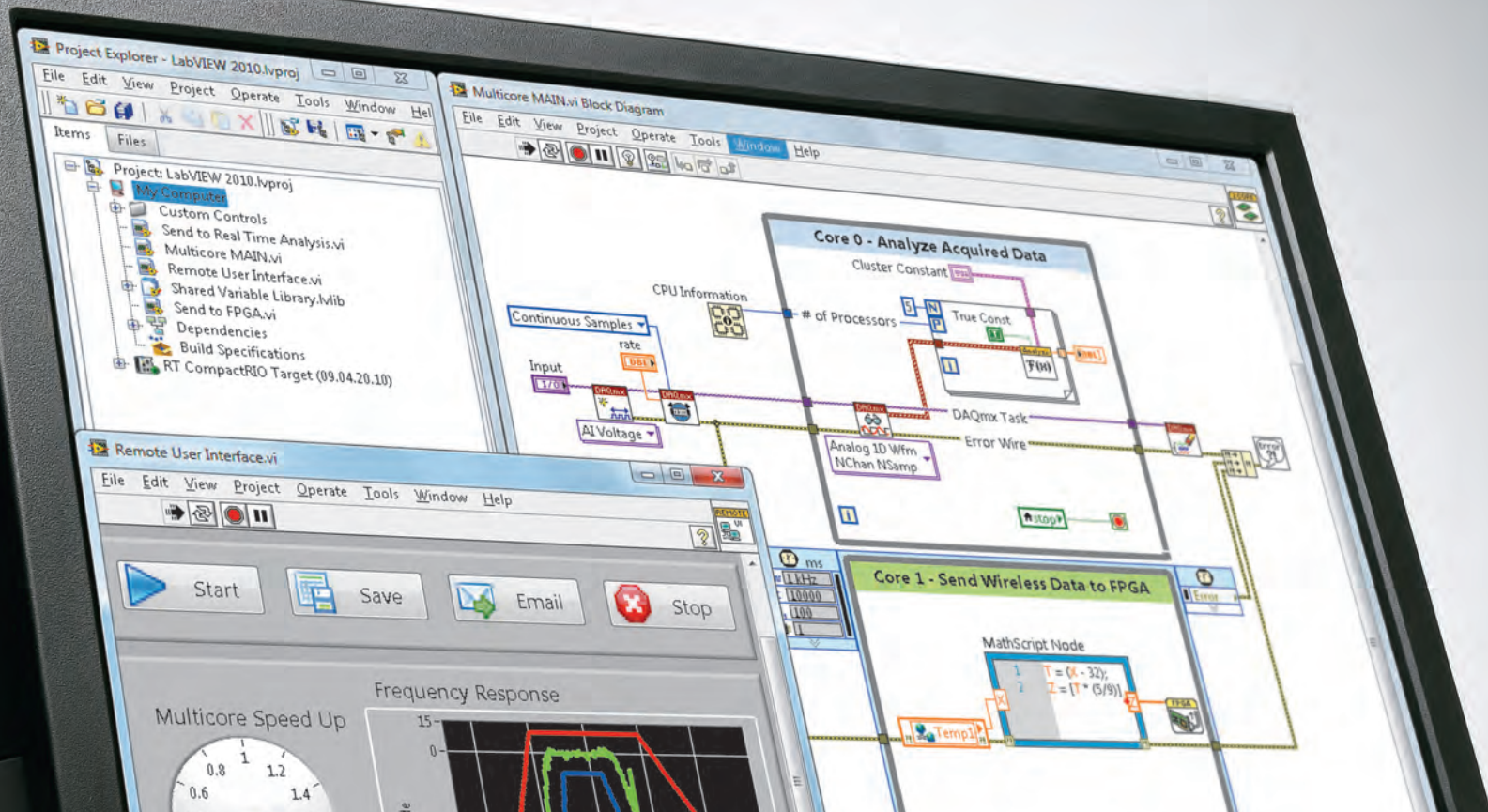
NI LabVIEW 2010

Multicore Performance

Increased Productivity

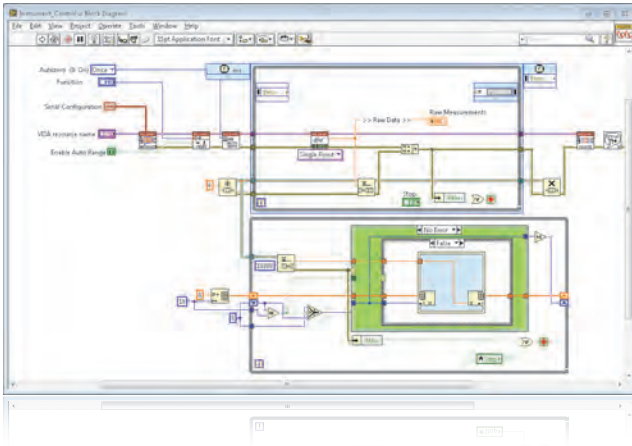
Timing and Synchronization

Advanced Control



NI LabVIEW 2010 software tackles top support issues with streamlined software installation, Web-based hardware configuration, and in-product searching while incorporating features implemented directly from user feedback to make your programming easier. Additionally, LabVIEW 2010 offers an improved back-end compiler that generates optimized machine code to increase your application's run-time execution up to 20 percent. With inherent timing mechanisms and simplified hardware synchronization technologies, LabVIEW 2010 improves your productivity whether you are a first-time user or long-time expert.

What's New in LabVIEW 2010



Improved Productivity

Simplify development with 14 new enhancements implemented directly from user feedback

Shorten time to first measurement by easily finding and installing more than 10,000 certified instrument drivers

Easily find and access help, examples, and technical content either in LabVIEW or online

Take advantage of new shortcuts and improved customization for Quick Drop

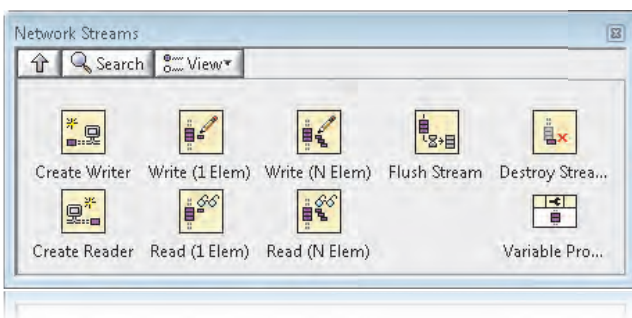
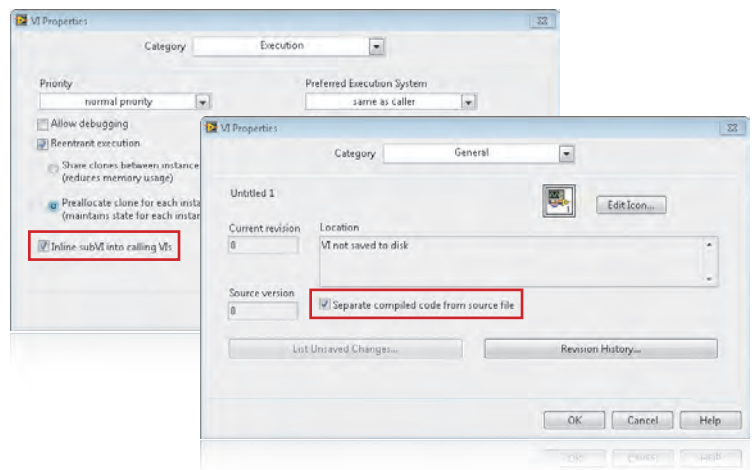
Language and Performance Enhancements

Run your code faster with new back-end compiler technologies and custom code optimizations

Remove the overhead associated with subVI calls using the new inlining execution option

Streamline group development by storing the compiled source code in a separate file

Simplify code deployment and distribution by packaging your source code into a single file with packed project libraries



Data Transfer and Streaming

- Easily export your data to Microsoft Excel with a simple right-click option

Stream your acquired data to disk faster than ever using the Advanced TDMS API

Stream data continuously between LabVIEW applications using the new Network Streams API

Build a Web client that interacts with servers, Web pages, and Web services

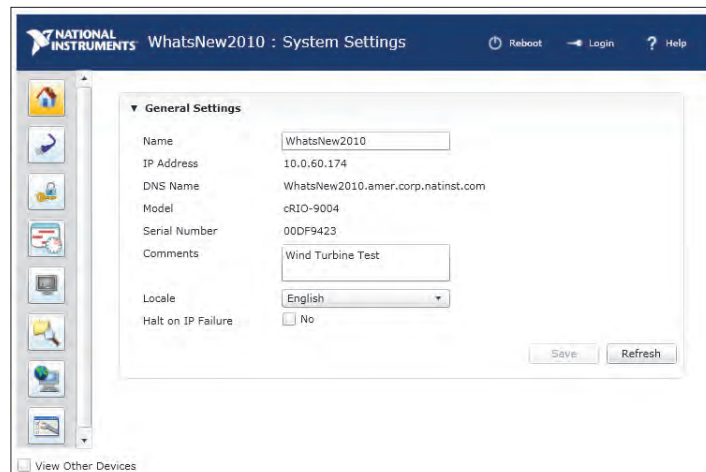
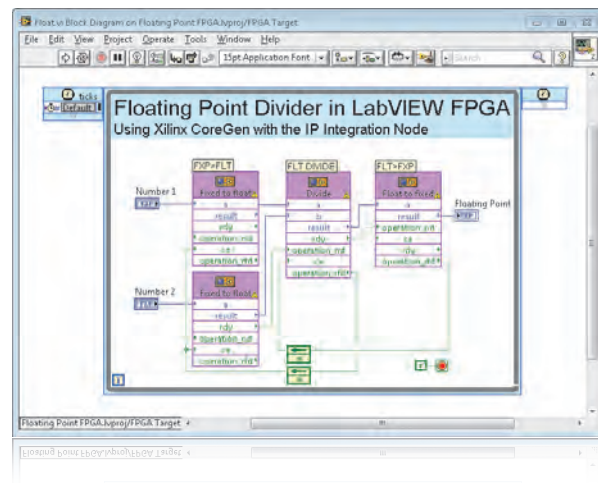
Latest FPGA Features

Use the cloud to offload the processor-intensive task of compiling a bitfile by pointing the FPGA compiler to the compile cloud

Save development time by integrating existing Xilinx Core Generator digital signal processing IP

Improve bitfile and setting management with build specifications

Achieve cycle-accurate simulation with ModelSim



Additional LabVIEW Tools

LabVIEW MathScript RT Module

Custom .m file validation for deterministic behavior
Enhanced text editor in the MathScript Window

NI Real-Time Hypervisor

Added Linux support for the NI Real-Time Hypervisor

LabVIEW Control Design and Simulation Module

Triggered/enabled models
DAE solvers

LabVIEW Real-Time Module Enhancements

Simplify host-to-target data transfer using network streams

Take advantage of new Web monitoring and configuration of networked targets

Publish variables via Web Services

Use more configuration and communication options in the NI Real-Time Hypervisor 2.0

LabVIEW Internet Toolkit

Industry-standard SSL for security for Web clients built in LabVIEW

LabVIEW DataFinder Toolkit

Programmatic configuration and control of your data management index with new features

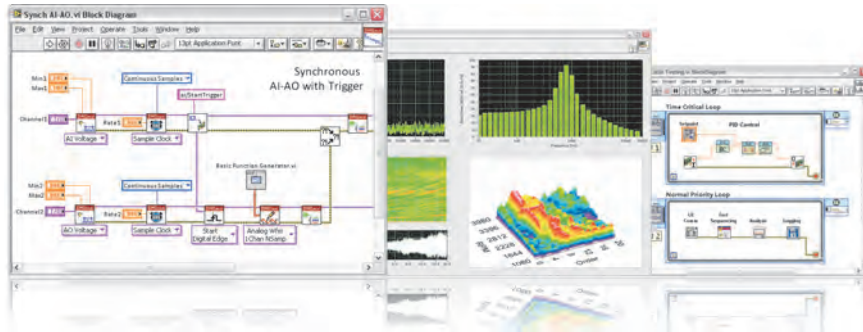
NI Vision Development Module

New motion-tracking, color, and texture segmentation as well as metrology algorithms

Try LabVIEW Today

Download and install fully functional 30-day trials of the LabVIEW graphical development environment and more than 25 add-on products.

DVDs also available upon request.



Visit ni.com/trylabview

NI Global Support and Services

National Instruments offers extensive services and support solutions to meet your needs during each phase of the application life cycle – from planning and development through deployment and ongoing maintenance.

Visit ni.com/services for more information.

Software Maintenance and Support

As an NI Standard Service Program (SSP) member, you receive free software upgrades and maintenance releases, direct mail and phone support from NI applications engineers, and access to exclusive software training modules.

Visit ni.com/ssp for more information.

Training and Certification

Customer feedback indicates that LabVIEW training courses result in significant reductions in learning time, development time, and maintenance costs. Visit ni.com/training to learn about LabVIEW training courses and the NI Training and Certification Membership Program, the most effective way to increase application development proficiency and productivity.

Volume Licensing

Designed for organizations with five or more licenses of the same software, the NI Volume License Program features services such as centralized license management, flexible budget purchasing, configurable on-site training, and more. Visit ni.com/vlp for more information.

U.S. Corporate Headquarters 866 463 5417

Worldwide Offices (Please note that these phone numbers do not include their respective country codes): **Andean and Caribbean** 212 503 5310 **Argentina** 0800 666 0037 **Australia** 0 2 9491 4000 **Austria** 0 662 457990 **Belgium** 0 2 757 0020 **Brazil** 011 3149 3149 **Canada** 450 510 3056 **Chile** 0 800 532 951 **China** 0 21 5050 9800 **Colombia** 01 800 913 3092 **Costa Rica** 0 800 052 1749 **Czech Republic, Slovakia** 420 224 235 774 **Denmark** 45 76 26 00 **Dominican Republic** 800 433 3488 **Ecuador** 1800 998119 **El Salvador** 800 6271 **Finland** 0 9 725 72511 **France** (0) 8 20 20 04 14 **Germany** 0 89 7413130 **Guatemala** 2450 1695 **Honduras** 0 504 3646 **Hungary** 36 23 448 900 **India** 0 80 41190000 **Ireland** 0 1867 4374 **Israel** 0 972 3 6393737 **Italy** 02 41309277 **Japan** 0120 527196 **Korea** 0 2 3451 3400 **Lebanon** 0 1 33 28 25 **Malaysia** 1800 887710 **Mexico** 01 800 010 0793 **Netherlands** 0 348 433 466 **New Zealand** 0800 553 322 **Norway** 66 90 76 60 **Panama** 009000 521166 **Peru** 0 800 50614 **Philippines** 2 659 1722 **Poland** 0 22 3289010 **Portugal** 210 311 210 **Puerto Rico** 1 800 433 3488 **Russia** 7 495 783 6851 **Singapore** 1800 226 5886 **Slovenia, Croatia, Bosnia and Herzegovina, Serbia, Montenegro, Macedonia** 3 425 42 00 **South Africa** 0 11 805 8197 **Spain** 91 640 0085 **Sweden** 0 8 587 895 00 **Switzerland** 0 56 2005151 **Taiwan** 2 2377 2222 **Thailand** 0 2 278 6777 **Turkey** 0 212 279 3031 **Uruguay** 0004 055 114 **U.K.** 0 1635 523545 **Venezuela** 0 212 503 5310