

Optimizing VI Performance and Style

NI LabVIEW VI Analyzer Toolkit

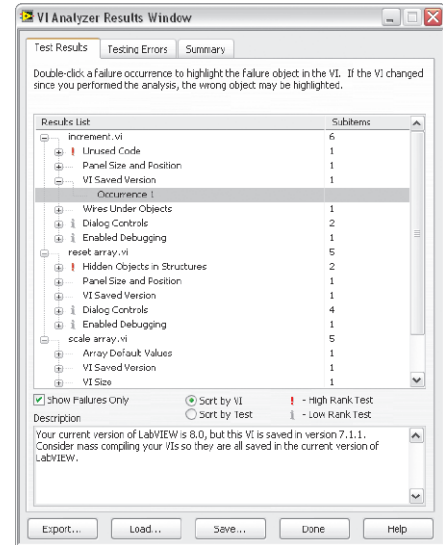
- Analyze VIs using more than 60 different tests to optimize style, performance, and documentation
- Highlight potential problems in LabVIEW code to simplify debugging
- Customize each configurable test for individual applications
- Generate reports to track code quality over time and reduce documentation tasks
- Automate VI Analyzer tasks using the programmatic interface

Operating System

- Windows 2000/XP
- Mac OS X
- Linux®

Required Software

- LabVIEW 8 or later; Base, Full, or Professional Development System



Overview

With the National Instruments LabVIEW VI Analyzer Toolkit, you can detect areas in your LabVIEW VIs where you can make improvements. This tool saves you valuable time by helping you quickly identify and document areas of your VIs to improve.

Learn Good Programming Standards

The tests included in the NI LabVIEW VI Analyzer Toolkit are designed to encourage good programming practices for creating robust software products. Many of the recommendations in the toolkit come from the *LabVIEW Development Guidelines Manual*, which is included with the LabVIEW Professional Development System and available on ni.com. National Instruments engineers developed these guidelines using accepted software engineering best practices as well as their intimate knowledge of how best to optimize LabVIEW applications. These guidelines provide a good framework for developing software applications that are flexible, robust, and optimized for performance.

Quickly Improve Your Programming Techniques

Use the 58 comprehensive tests in the LabVIEW VI Analyzer Toolkit to analyze the user interface, block diagram, documentation, and VI properties and settings. The toolkit offers recommendations to improve style, performance, and usability. The tests, which examine everything from the user interface to memory usage, offer suggestions for improving your VIs that you would recognize with two years of LabVIEW

development experience. This toolkit helps you learn these programming practices more quickly and interactively highlights the parts of the VI identified by the test to save you time while debugging VIs.

Automate Your Software Testing

The LabVIEW VI Analyzer Toolkit includes a programmatic interface for running the tests. With this programmatic interface, you build programs that automatically configure tests, select VIs on which to execute tests, and generate reports. Using the enhanced functionality of this toolkit saves you time and money because you can set up the tests once and then run them automatically every night. The reports built by either the interactive toolkit interface or the programmatic interface provide a summary of all the tests that ran, which tests failed, and the locations of the code that caused a test to fail. You can create this report either in a text or HTML format. These reports ensure that good documentation about the current state of the source code is available, which is important in developing quality software.

Ordering Information

NI LabVIEW VI Analyzer Toolkit778752-03

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For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S.) or go to ni.com/toolkits.



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2006-6935-821-101-D