LabWindows™ /CVI™
Quick Reference

LabWindows/CVI is a proven test and measurement ANSI C development environment that increases the productivity of engineers and scientists. LabWindows/CVI streamlines application development with hardware configuration assistants, comprehensive debugging tools, and interactive execution capabilities you can use to run functions at design time. Built-in measurement libraries enable you to rapidly develop complex applications such as multithreaded programs and ActiveX server/client programs. The flexibility of LabWindows/CVI optimizes data acquisition, analysis, and presentation in test and measurement applications.

System Requirements

- Personal computer using a Pentium 600 or higher microprocessor
- Microsoft Windows 2000/NT SP6/XP/Me/98
- 800 by 600 resolution (or higher) video adapter
- Minimum of 128 MB of RAM, 256 MB recommended
- 150 MB free hard disk space
- Microsoft-compatible mouse
- Microsoft Internet Explorer 5.0 or later

Installation

1. Insert the CD into the CD drive. If the CD does not run automatically, open Windows Explorer, right-click the CD drive icon, and select AutoPlay.
2. On installation startup, the National Instruments LabWindows/CVI 7.0 screen appears. Click Install LabWindows/CVI.
3. Continue to follow the instructions on the screen.

Product Resources

For complete technical information, community opportunities, and the latest news about LabWindows/CVI, visit ni.com/cvi:
- Online community
- Sample programs
- Application notes and white papers
- Add-on products
- Training information
- Technical support
- Product tutorials

LabWindows/CVI meets the changing needs of test engineers with an interactive development environment designed for virtual instrumentation. With easy-to-use development tools, you can quickly create, configure, and display measurements during program design and verification. LabWindows/CVI automates much of the manual coding and compiling.

1. Use interactive function panels to generate library calls, test the calls, and insert them into the program. A function panel is a graphical representation of a LabWindows/CVI function and its parameters.
2. Customize each GUI control with easy-to-use dialog boxes.
3. Automatically generate an ANSI C program based on the GUI with LabWindows/CVI CodeBuilder. CodeBuilder creates code that responds automatically to user events such as mouse clicks, key presses, and menu selections.
4. Design graphical user interfaces (GUIs) in the intuitive User Interface Editor. Select from controls designed specifically for instrumentation.
5. Complete your program using the built-in source editor.
6. Use LabWindows/CVI debugging tools to catch common programming mistakes. The patented User Protection feature automatically checks for invalid program behavior. Set breakpoints and use tooltips to pause program execution and view or modify variable values.
7. Use the Create Distribution Kit command to make an application installer for your stand-alone executable.