

Creating Executables with the LabVIEW Application Builder

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Table of Contents

1. Creating an Executable

Refer to the *LabVIEW Help* (linked below) and the *LabVIEW Application Builder User Guide* (linked below) for the most recent version of these instructions.

The LabVIEW 5.1 Application Builder marked a significant change in the way you create executables from your LabVIEW VIs. Previous versions of the Application Builder used a three-step process to create applications: save your VIs into a LabVIEW Library (LLB) file (using the "Save With Options" feature), build the executable using this LLB file, and then create a distribution kit for your application. Each executable that you built included the LabVIEW Run-Time Engine (LVRTE), which meant that even a simple program would be at least 2 MB in size (the size of the LVRTE).

As of LabVIEW 5.1, you just tell the Application Builder what your main VI is and it does the rest, dynamically including all of your subVIs and any functions/VIs from LabVIEW that you need in your application. The exception is that you must specify any dynamically-loaded VIs or external code that you use, during the build process. The LabVIEW Run-Time Engine is no longer included with every executable, so you can have multiple executables on the same target machine, but only require one instance of the LVRTE (for each unique version of LabVIEW) to run them. This decreases the size of your executables and gives you more flexibility with your applications.

The LabVIEW 6i (6.0) Application Builder is very similar to the LabVIEW 5.1 and 5.1.1 versions with a few differences:

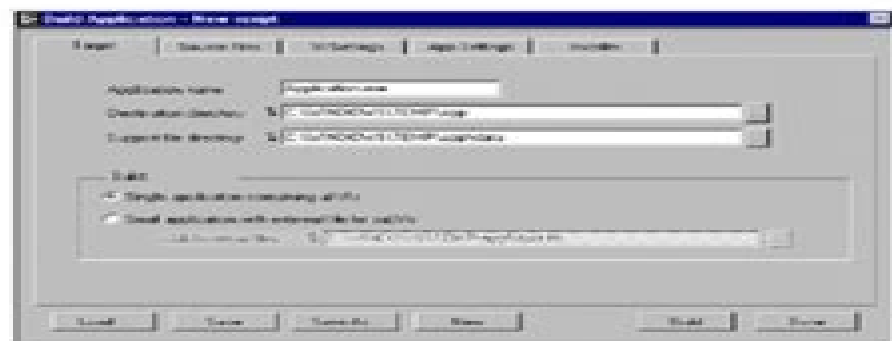
- LabVIEW 6i (6.0) allows you to create dynamic link libraries (DLLs) on Windows platforms or shared libraries on MacOS/UNIX platforms.
- The 3D Graph, DataSocket, and NI Reports support files are now part of the LabVIEW Run-Time Engine installation on Windows platforms.
- There is a "Help" button that opens the LabVIEW Help files for the steps involved in creating an executable and/or DLL/shared library.

1. Creating an Executable

You have a number of options available to you when creating an executable and these are described in the following paragraphs. You can store these options with the "Save" button.

Initial Application Builder Screen

Use this screen to name the application and select the directory where the built application will be created.

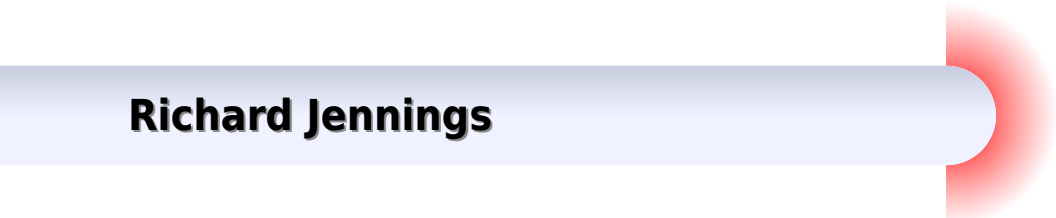


The Source Tab

The Application Builder needs to know what your main VI is, so use the "Add Top Level VI" button to specify this VI. Any subVIs that you have in your application will be included automatically. The LabVIEW 5.1 and 5.1.1 Application Builders also require you to use the "Add Dynamic VI" button to specify dynamically-loaded VIs (e.g., VIs that you load using VI Server) and the "Add Support Files" button to specify any external code (e.g., DLLs or help files) that your application uses. (Note that VIs added as dynamic will become part of the executable, as well as their subVIs.) You may use the "Custom Destinations" button to create additional subfolders for your support files.

Labview Application Builder User Guide

Richard Jennings



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Table of Contents Labview Application Builder User Guide

1. Understanding the eBook Labview Application Builder User Guide
 - The Rise of Digital Reading Labview Application Builder User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Labview Application Builder User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Labview Application Builder User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Labview Application Builder User Guide
 - Personalized Recommendations
 - Labview Application Builder User Guide User Reviews and Ratings
 - Labview Application Builder User Guide and Bestseller Lists
5. Accessing Labview Application Builder User Guide Free and Paid eBooks
 - Labview Application Builder User Guide Public Domain eBooks

- Labview Application Builder User Guide eBook Subscription Services
- Labview Application Builder User Guide Budget-Friendly Options
- 6. Navigating Labview Application Builder User Guide eBook Formats
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 - Labview Application Builder User Guide Compatibility with Devices
 - Labview Application Builder User Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Labview Application Builder User Guide
 - Highlighting and Note-Taking Labview Application Builder User Guide
 - Interactive Elements Labview Application Builder User Guide
- 8. Staying Engaged with Labview Application Builder User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Labview Application Builder User Guide
- 9. Balancing eBooks and Physical Books Labview Application Builder User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Labview Application Builder User Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Labview Application Builder User Guide
 - Setting Reading Goals Labview Application Builder User Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Labview Application Builder User Guide
 - Fact-Checking eBook Content of Labview Application Builder User Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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