LabVIEW Working Environment
The Pros and Cons

By Brad Seaton
Outline

- What is LabVIEW?
- What can it be used for?
- Who can use LabVIEW?
- What experience is needed?
- Preparation before starting
- Working environment
- Conclusion
- More information
What Is LabVIEW?

LabVIEW is an application software package that is used to interact with analog/digital instruments.
What Can LabVIEW Used For?

LabVIEW is used to interact with analog or digital instruments.
What Can LabVIEW Used For?

LabVIEW can control instrumentation that needs exact precision.
Who Needs to Use LabVIEW?

Anyone who can take advantage of the capabilities of LabVIEW.
What Experience Is Need?

- Any moderate computer user can learn to use LabVIEW.
- The person designing application will be amazed at the ease of LabVIEW.
- The end user will be glorified with an easy to use interface.
Before Starting LabVIEW

- First you will need to setup your input source.
- Second you will need to know exactly what the instrument does and how it does it.
- Last you will need to know what you want to do with the input/output for the instrument.
Working Environment

- G programming
- Designing a front end
- Behind the front end
- Executing the program
G Programming

- LabVIEW uses G programming which is an easy to use graphical data flow programming language.
- G simplifies scientific computation, process monitoring and control, and test and measurement applications, along with other various applications.
Designing a Front End

LabVIEW 5.0
Graphical Programming for Instrumentation

Quick Tip
You can set VISA Aliases in the Instrument Wizard to make address strings easier to remember.
Designing a Front End Cont
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Programming Under the Hood
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Executing the Program
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Conclusion

- Readability
- Write ability
- Usability
More Information

- www.natinst.com
- There you can request evaluation demos
- Search solutions
- Technical support