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VXI Course

Overview:

The VXI course teaches how to configure and program a VXI/VME system with instrument drivers and VISA. You learn how to correctly handle system setup and how to access message-based and register-based instruments. You also learn how to dynamically configure the VXI/VME system for maximum flexibility. During the VXI course, you can choose to use either LabVIEW or LabWindows/CVI running on a Windows-based embedded VXI PC. Because VXI concepts are functionally similar on all platforms, the training provided pertains to other VXI platforms.

Audience:

- New users and developers using VXI to build test and measurement systems
- Users and technical managers evaluating VXI in purchasing decisions

After attending this course you will be able to:

- Develop test and measurement systems using VXI
- Understand how VISA and instrument drivers are used with VXI instruments
- Use software to control message-based and register-based devices
- Use VXI/VMEbus specific interrupts and triggers

Prerequisites: LabVIEW Fundamentals (Basics I and II) or LabWindows/CVI Basics course or equivalent experience

Duration: Two Days

Ordering Information: 910504-XX (-01 NI Corporate or Branch, -11 Regional, -21 Onsite)



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Course Topics:

Introduction to VXIbus and Controller Configuration

- Embedded VXI systems
- External MXIbus system
- GPIB to VXI systems

NI-VXI Software Utilities

- Overview of NI-VXI utilities
- Resource editor program
- Controller initialization program
- Interactive control program

Introduction to VISA

- History of VXI *plug&play*
- System frameworks
- VISA terminology

Programming with VISA

- VISA categories
- Important VISA functions
- Building a VISA application program

Advanced Topics

- Trigger bus
- Priority interrupt bus and signals
- Operation and handling of events

Instrument Drivers

- Overview of instrument driver architecture
- Programming with instrument drivers