QUICK START GUIDE

NI Real-Time Hypervisor

Version 1.0

The NI Real-Time Hypervisor provides a platform you can use to develop and run LabVIEW Real-Time applications and LabVIEW for Windows applications simultaneously on a supported multi-core controller.

Systems purchased with the NI Real-Time Hypervisor ship pre-configured to meet the following requirements:

- Windows XP (32-bit) with the following non-default settings:
  - All power-saving features disabled
  - Configured to use the **Standard PC** driver
- One CPU assigned to Windows XP and all other CPUs assigned to NI ETS (Real-Time)
- A single shared hard drive with two partitions set up as follows:
  - One partition formatted with the NTFS file system running Windows XP (32-bit)
  - One partition formatted with the FAT32 file system, named `LABVIEW_RT`, and running the NI ETS RTOS
- All hardware devices partitioned between the two operating systems
  - Each hardware device in the system has been assigned to a single operating system by NI Factory Installation Services (FIS) as specified during the ordering process
- LabVIEW Real-Time Deployment License

Note Refer to `ni.com/info` and enter the info code `HV_Devices` for information about unsupported hardware devices and drivers.

Configuring the NI Real-Time Hypervisor

Complete the following steps to reconfigure the chassis slot positions or OS assignments of hardware devices in your NI Real-Time Hypervisor system.

NATIONAL INSTRUMENTS

1. Power on or restart the controller and select **Windows** from the NI Real-Time Hypervisor boot menu to boot into Windows.
2. Select **Start»National Instruments»NI Real-Time Hypervisor» NI Real-Time Hypervisor Manager** to launch the NI Real-Time Hypervisor Manager.
3. Select **Help»Real-Time Hypervisor Help** in the NI Real-Time Hypervisor Manager to launch the *NI Real-Time Hypervisor Help*.
4. Refer to the **Configuring the NI Real-Time Hypervisor** topic on the Contents tab in the *NI Real-Time Hypervisor Help* for additional configuration instructions.

Communicating with the RT Target

The NI Real-Time Hypervisor includes a virtual RT console and a virtual Ethernet connection that you can use to communicate with the RT target.

Viewing Configuration and Troubleshooting Information

Use the virtual RT console to view configuration and troubleshooting information for the NI Real-Time Hypervisor. For example, you can use the virtual RT console to determine the RT target IP address. Refer to the **Connecting to the Virtual RT Console** topic on the **Contents** tab in the *NI Real-Time Hypervisor Help* for more information.

Communicating Between Windows and the RT Target

Use the virtual Ethernet connection to communicate between Windows and the RT target on your NI Real-Time Hypervisor system. Refer to the **Transferring Data Between Windows and the RT Target** topic on the **Contents** tab in the *NI Real-Time Hypervisor Help* for more information.

Where to Go from Here

Refer to the *NI Real-Time Hypervisor Help* for complete documentation of the NI Real-Time Hypervisor, including an introduction to virtualization and techniques for communicating between Windows and the RT target.

Refer to `ni.com/info` and enter the info code `HV_FAQ` for frequently asked questions or enter the info code `HV_Recovery` for recovery instructions.

375174A-01 Jun09