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INSTALLATION GUIDE

NI-VXI™/NI-VISA™ for the VXIpc™ Embedded Controller for Linux

This installation guide describes system requirements, gives installation instructions, and includes support information for NI-VXI/NI-VISA for the VXIpc embedded computers for the Linux operating system.

System Requirements

NI-VXI for Linux requires the following system components:

- Linux kernel 2.4.*x* or 2.6.*x* for the Intel *x*86 architecture
- Support for building kernel modules (included with all major Linux distributions)
- National Instruments VXIpc 770/870/870B Series embedded controller

Recommended Linux distributions are:

- RedHat Enterprise Linux
- SuSE Linux
- Mandrake Linux

Installation Instructions

Before you begin, you may need to install Linux on your VXIpc. Refer to your Linux distribution documentation for instructions. After your VXIpc is booted into Linux, you are ready to install the NI-VXI/VISA software.

To install NI-VXI/VISA for the VXIpc for Linux, perform the following steps:

1. Insert the *NI-VXI/VISA for Linux* CD.
2. Login to your system as `root`.
3. Mount the CD-ROM.

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4. To change the current directory to the mounted CD-ROM, type the following command:

   ```
   cd /media/cdrom
   ```

Note This command may vary depending on your Linux distribution.

5. To run the installation script, type the following command:

   ```
   ./INSTALL
   ```

The `INSTALL` script places NI-VXI and NI-VISA in their default locations in `/usr/local`. The script uses `rpm` to install the packages. The script also optionally installs support for NI-VXI in LabVIEW.

Note There are two versions of the driver. Version 2.0.*x* supports Linux kernel 2.4.*x*, and version 2.1.*x* supports Linux kernel 2.6.*x*. The `INSTALL` script autodetects which version to install.

See the `README` file on the CD-ROM for additional important information and instructions, including how to compile and load the driver.

Technical Support

Technical support for Linux-specific problems is available by email and phone. Send your questions to `support@ni.com` or call (512) 795-8248. See `ni.com/support/vxisupp.htm` for additional information and resources related to NI-VXI for the VXIpc for Linux.

For more information, visit the KnowledgeBase, a searchable, online database of common questions and support issues. You can access the KnowledgeBase at `ni.com/support` by clicking the **KnowledgeBase** link.

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