

NI-VXI™/NI-VISA™ FOR THE PCI-MXI-2 FOR LINUX INSTALLATION GUIDE

This installation guide describes system requirements, gives installation instructions, and includes support information for NI-VXI/NI-VISA for the PCI-MXI-2 interface for the Linux operating system.

System Requirements

NI-VXI for Linux requires the following system components:

- Linux kernel 2.2.x or 2.4.x for the Intel x86 architecture
- Support for modules, included with all major Linux distributions
- Approximately 3 MB of hard disk space

You meet the Linux kernel requirements if you are using one of the following distributions, among others:

- RedHat Linux 5.0 or later
- SuSE Linux 6.0 or later
- Debian GNU/Linux 2.0 or later
- Slackware 4.0 or later

Installation Instructions

Before you begin, you may need to install Linux on your computer. Refer to the Linux documentation for instructions. Install the PCI-MXI-2 as described in the *Getting Started with Your VXI/VME-PCI8026 and the NI-VXI/NI-VISA Software for Linux* manual. After your computer is booted into Linux, you are ready to install the NI-VXI/NI-VISA software.

To install NI-VXI/NI-VISA for the PCI-MXI-2 for Linux, perform the following steps:

1. Insert the *NI-VXI/NI-VISA for Linux* CD.
2. Log in to your system as `root`.

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May 2002
322645B-01

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

```
cd /mnt/cdrom
```
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 on systems that support it or extracts the files directly on other systems. The script also optionally installs support for NI-VXI in LabVIEW.

Note that there are two versions of the driver. Version 1.6.x supports Linux kernel 2.2.x, and version 2.x supports Linux kernel 2.4.x. The `INSTALL` script autodetects which version to install.

You also can install the RPM files without going through the `INSTALL` script by using `rpm`, `glint`, or `gnorpm` on RedHat or other RPM-based systems. For example, to install NI-VXI in `/opt` on a RedHat 5.x system, type the following command:

```
rpm --prefix=/opt/nivxi -Uvh nivxi-pcimxi-1.6-1.i386.rpm
```



Note If you use `rpm` rather than the `INSTALL` script, you must repeat this step for each package you want to install.

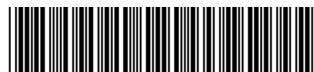
If you install the software to a location other than the default, set the appropriate environment variable: `NIVXIPATH` for NI-VXI or `VXIPNPPATH` for NI-VISA. See your manual for details.

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 via 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/NI-VISA for the PCI-MXI-2 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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