

READ ME

TAMS 82091 I/O Libraries and Drivers for Red Hat Enterprise Linux

Systems Supported

The TAMS I/O Libraries for Linux currently supports x86-compatible computers running Red Hat Enterprise Linux with the one of the supported uniprocessor or SMP kernels supplied by Red Hat. Customer-built kernels are not supported.

Please see the Test & Measurement Systems website (<http://www.tamsinc.com/>) for a complete list of currently supported kernels. To find your current kernel, type

```
uname -r
```

Media Contents

The CD you have received contains both the I/O Libraries and drivers in a directory named after your OS distribution. For example, Red Hat Enterprise Linux 4 Update 3 RPMs for 32-bit Intel processors are in `RHEL4u3.i686/`. For your convenience, this directory also includes a few required RPMs from the Red Hat distribution that are not included in Red Hat's default installation.

Documentation files are in the `Documentation/` directory.

- `sicl-installation.{pdf,ps}` - *I/O Libraries Installation and Configuration Guide for Linux*
- `sicl-usersguide.{pdf,ps}` - *Standard Instrument Control Library User's Guide*
- `visa-usersguide.{pdf,ps}` - *VISA User's Guide*
- `visa-reference/` and `visa-reference/index.htm` - *VISA Reference Guide (HTML)*
- `xxxxx-manual.pdf` - *User's Manual* for the xxxxx card

For a detailed explanation of installing SICL, read the file `sicl-installation.pdf`, or the “Quick Installation” section, below.

Quick Installation

If you wish to install all of the packages included on the CD (I/O Libraries, HP-IB drivers, GPIO driver), you may use the following procedure, rather than the instructions in the respective Installation and User's Manuals.

1. Insert the installation media into the CD-ROM drive and wait for the busy light to remain off.
2. If your system does not automount the CD-ROM, mount the CD-ROM. For example:

```
/bin/mount /dev/cdrom /media/cdrecorder
```

where `/dev/cdrom` is the device file for your CD-ROM drive and `/media/cdrecorder` is the mount point.
3. Run the installation script. For example:

```
/media/cdrecorder/INSTALL
```
4. Once the installation has completed without errors, unmount the CD. For example:

```
/bin/umount /dev/cdrom
```
5. Once the CD is unmounted, remove the media from the drive and store it in a safe place.

Configuration

Before using an interface with the I/O Libraries, it must be configured. To configure interfaces for use with SICL or VISA, run `/opt/sicl/bin/iosetup`. This is described in more detail in `sicl-installation.pdf` as well as in the documentation that came with your interface card.

Important Note

To guarantee that the PCI cards on your system are configured, be sure that your BIOS is set to perform the PCI card configuration. This setting is often called Plug & Play OS and should be set to "NO". See the documentation that came with your computer/motherboard for more details.

Supported Interfaces

Currently the following interfaces are supported

- LAN - Support is included in the T82091 package.
- RS-232 - Support is included in the T82091 package.
- USBTMC-USB488 - Support is included in the T82091 package.
- 80100 (PCI-VXI Bridge) - Support is included in the T82091 package.
- 80488 (HP-IB) - Support is included in the T80488 package included on this CD. If you are installing packages manually, rather than with the INSTALL script, this package must be installed separately.
- 81488 (HP-IB) - Support is included in the T81488 package included on this CD. If you are installing packages manually, rather than with the INSTALL script, this package must be installed separately.
- 83488 (HP-IB) - Support is included in the T83488 package included on this CD. If you are installing packages manually, rather than with the INSTALL script, this package must be installed separately.
- 81622 (GPIO) - Support is included in the T81622 package included on this CD. If you are installing packages manually, rather than with the INSTALL script, this package must be installed separately.
- 82622 (GPIO) - Support is included in the T82622 package included on this CD. If you are installing packages manually, rather than with the INSTALL script, this package must be installed separately.

Be sure to read `/opt/sicl/README.82091` and any documentation included with your interface card for additional information on using these interfaces.

Contact Test & Measurement Systems for the latest information on supported cards.