

Installation Instructions for PCI-GPIB Version 2.0 under Solaris 2.7

1 . Login to Solaris 2.7 as root

2 . Make sure the NIPcigpib.tar is located in the current directory by typing in `ls -la`

```
#ls -la
total 3972
drwxr-xr-x  2 root    other          512 Apr  5 19:02 .
drwxr-xr-x 21 root    root           512 Apr  5 18:58 ..
-rw-r--r--  1 root    other       1016832 Apr  5 19:02 NIPcigpib.tar
```

3 . Un-tar the file by typing in `tar xvf Nipcigpib.tar`

```
#tar xvf NIPcigpib.tar
x NIPcigpib, 0 bytes, 0 tape blocks
x NIPcigpib/pkgmap, 1168 bytes, 3 tape blocks
x NIPcigpib/pkginfo, 385 bytes, 1 tape blocks
x NIPcigpib/reloc, 0 bytes, 0 tape blocks
x NIPcigpib/reloc/$BASEDIR, 0 bytes, 0 tape blocks
x NIPcigpib/reloc/$BASEDIR/cib.c, 19206 bytes, 38 tape blocks
x NIPcigpib/reloc/$BASEDIR/cib.h, 2712 bytes, 6 tape blocks
x NIPcigpib/reloc/$BASEDIR/ib_32, 189104 bytes, 370 tape blocks
x NIPcigpib/reloc/$BASEDIR/ib_64, 348688 bytes, 682 tape blocks
x NIPcigpib/reloc/$BASEDIR/ibconf, 166052 bytes, 325 tape blocks
x NIPcigpib/reloc/$BASEDIR/ibic, 125556 bytes, 246 tape blocks
x NIPcigpib/reloc/$BASEDIR/ibkeypci, 14852 bytes, 30 tape blocks
x NIPcigpib/reloc/$BASEDIR/ibtsta, 37488 bytes, 74 tape blocks
x NIPcigpib/reloc/$BASEDIR/ibtstb, 26876 bytes, 53 tape blocks
x NIPcigpib/reloc/$BASEDIR/libgpib.a, 16492 bytes, 33 tape blocks
x NIPcigpib/reloc/$BASEDIR/libgpib.so, 20752 bytes, 41 tape blocks
x NIPcigpib/reloc/$BASEDIR/ugpib.h, 17619 bytes, 35 tape blocks
x NIPcigpib/root, 0 bytes, 0 tape blocks
x NIPcigpib/root/etc, 0 bytes, 0 tape blocks
x NIPcigpib/root/etc/devlink.tab, 283 bytes, 1 tape blocks
x NIPcigpib/install, 0 bytes, 0 tape blocks
x NIPcigpib/install/checkinstall, 1458 bytes, 3 tape blocks
x NIPcigpib/install/copyright, 69 bytes, 1 tape blocks
x NIPcigpib/install/depend, 147 bytes, 1 tape blocks
x NIPcigpib/install/postinstall, 1928 bytes, 4 tape blocks
x NIPcigpib/install/postremove, 212 bytes, 1 tape blocks
x NIPcigpib/install/preinstall, 278 bytes, 1 tape blocks
x NIPcigpib/install/preremove, 99 bytes, 1 tape blocks
x NIPcigpib/install/request, 1400 bytes, 3 tape blocks
x NIPcigpib/install/space, 89 bytes, 1 tape blocks
```

4. Do `pkgadd -d .`

```
#pkgadd -d .
```

The following packages are available:

```
 1 NIpcigpib      NI-488.2M Software for Solaris 2.x PCI-GPIB
                   (sparc) 2.0
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

5. Press '1' install the PCI-GPIB driver ver 2.0

```
Processing package instance <NIpcigpib> from </export/home/root>
```

```
NI-488.2M Software for Solaris 2.x PCI-GPIB
(sparc) 2.0
```

```
Copyright (c) 1999 National Instruments Corp.
All rights reserved
```

This appears to be an attempt to install the same architecture and version of a package which is already installed. This installation will attempt to overwrite this package.

```
NI-488.2M Software for Solaris 2.5.1 and above
```

```
This installer will automatically remove older, non-package
formatted versions of the driver, ib, from /usr/kernel/drv
and /kernel/drv. Also, if module ib is already bound, this
installer will execute 'rem_drv ib'.
```

```
Do you want to continue with the installation? Default is y [y,n,?]
```

6. Press ENTER to start the installation. In most cases, the default location for the driver is the most suitable one

```
Where should the include file ugpib.h be installed? Default is
/usr/include/sys [?,q]
```

```
Where should the utilities ibconf, ibic, ibtsta, and ibtstb be
installed?
Default is /usr/bin [?,q]
```

```
Where should libgpib.a and libgpib.so be installed? Default is /usr/lib
[?,q]
```

```
## Executing checkinstall script.
```

```
Using </opt/NICgpib> as the package base directory.
```

```
## Processing package information.
```

```
## Processing system information.
```

```
13 package pathnames are already properly installed.
```

```
## Verifying package dependencies.
```

```
## Verifying disk space requirements.
```

```
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <Nlpcigpib> [y,n,?]

7. Press 'y' to continue the installation

Installing NI-488.2M Software for Solaris 2.x PCI-GPIB as <Nlpcigpib>

```
## Executing preinstall script.  
## Installing part 1 of 1.  
[ verifying class <none> ]  
Modifying /etc/devlink.tab  
[ verifying class <sed> ]  
## Executing postinstall script.  
Installing 64 bit kernel driver  
ibkeypci: Scanning NI-488 resource file /etc/ibrc  
ibconf: Scanning NI-488 driver file /usr/kernel/drv/ib  
ibconf: Scanning NI-488 resource file /etc/ibrc  
Driver (ib) installed.
```

Installation of <Nlpcigpib> was successful.

The following packages are available:

```
 1  Nlpcigpib      NI-488.2M Software for Solaris 2.x PCI-GPIB  
      (sparc) 2.0
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

8. Press 'q' to exit the installation. The PCI-GPIB card is now installed and ready for operation.

9. Test the installation by typing in ibtsta

```
# ibtsta
```

```
National Instruments GPIB Software Installation Test, Part A  
Copyright (c) 1999 National Instruments Corp.    Version 1.4  
All rights reserved.
```

Part A of this test:

- checks the installation and operation of the GPIB software.
- requires no interaction with the user.
- assumes there is a GPIB board in your system, with special files /dev/gpib and /dev/gpib0.
- takes only a few seconds to complete.

```
*** DISCONNECT ALL GPIB CABLES FROM THE BOARD 'gpib0' ***
```

Press return to begin tests:

Checking driver installation...

```
Driver Version 2.0.  
PCI-GPIB configured as /dev/gpib0.
```

Test in progress...

The software is correctly installed.