82350 PCI GPIB Interface Configuration Help

Please select one of the following:

[Configuring the 82350 PCI GPIB Interface](#)

[I/O Config Cannot Find the 82350 PCI GPIB Interface](#)

Configuring the 82350 PCI GPIB Interface

To configure the 82350 PCI GPIB interface for the I/O Libraries, you need to provide the following information.

□ **SICL Interface Name** is a symbolic name that SICL uses to uniquely identify this GPIB interface. The default Interface Name is **hpib**. The SICL Interface Name must be a unique string of alphanumeric characters, starting with a letter. Remember this value and the Logical Unit number in order to address the GPIB interface properly in your SICL applications.

□ **VISA Interface Name** is a symbolic name that VISA uses to uniquely identify this GPIB interface. The default VISA Interface Name is **GPIB0**. The Interface Name for VISA must begin with the string **GPIB** and have an integer appended to it, such as **GPIB0**, **GPIB1**, **GPIB2**, and so forth. Remember this value in order to address the GPIB device properly in your VISA applications.

□ **Logical Unit** is a number that SICL uses to uniquely identify this GPIB interface. The Logical Unit number is an integer in the range of 0-10000. Remember this value and the SICL Interface Name in order to address the GPIB interface properly in your SICL applications.

□ **Bus Address** is the address of this GPIB interface on the GPIB bus. It is usually 21 if the GPIB interface is a system controller, or 20 if it is a non-system controller. (See System Controller below.) These addresses are chosen by convention, but any address in the range 0-30, inclusive, may be used.

□ **System Controller** determines if this interface controls which bus devices talk and listen. If several devices exist on a bus, be sure each has a unique GPIB bus address and only one device is the System Controller (it is usually the one installed in the computer). Each GPIB interface has its own independent bus. Thus, each may be a System Controller as long as it is not chained together with other GPIB interfaces.

If the configuration values that are displayed for the Interface Names, Logical Unit number, Interrupt Line, Bus Address, and System Controller are acceptable to you, click the **OK** button.

Otherwise, you can change the configuration values either by clicking the arrows next to the values, or, if there are no arrows, by typing in the values you want. At any time, you can press the **Defaults** button to return the configuration dialog box to its default configuration values for the GPIB interface.

When you are done changing the values, either press the **OK** button if you want I/O Config to accept the changes, or press the **Cancel** button to cancel the changes and return to the previous configuration values for the GPIB interface.

I/O Config Cannot Find the 82350 PCI GPIB Interface

The most common problem encountered when using I/O Config is that an interface is not found.   For an 82350 GPIB interface, this is due to one of the following reasons:

1. The interface was not installed in your system before running I/O Config.

To solve this problem, you need to install the GPIB interface card in your system and then run I/O Config again.

2. The interface has already been configured by I/O Config.

To solve this problem, you need to *edit* the existing configuration entry for the interface, instead of trying to add a new interface.   In the main I/O Config window, click the name of the interface configuration entry for the 82350 in the **Configured Interfaces** list box.   Then click the **Edit** button directly beneath the **Configured Interfaces** list box to edit the configuration entry for the 82350 PCI GPIB interface.