Agilent ChemStation for GC Systems

Installing Your GC ChemStation

Agilent Technologies

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Installing Your GC ChemStation

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1

Installation Preparation

Agilent GC ChemStation overview

About the 6850, 6890 and 5890 GCs

The 6850 Gas Chromatograph (GC) with a LAN card can achieve maximum performance by using the ChemStation software. The ChemStation can fully control and automate many features of the GC and other instruments including automatic sampler, column, and detector options.

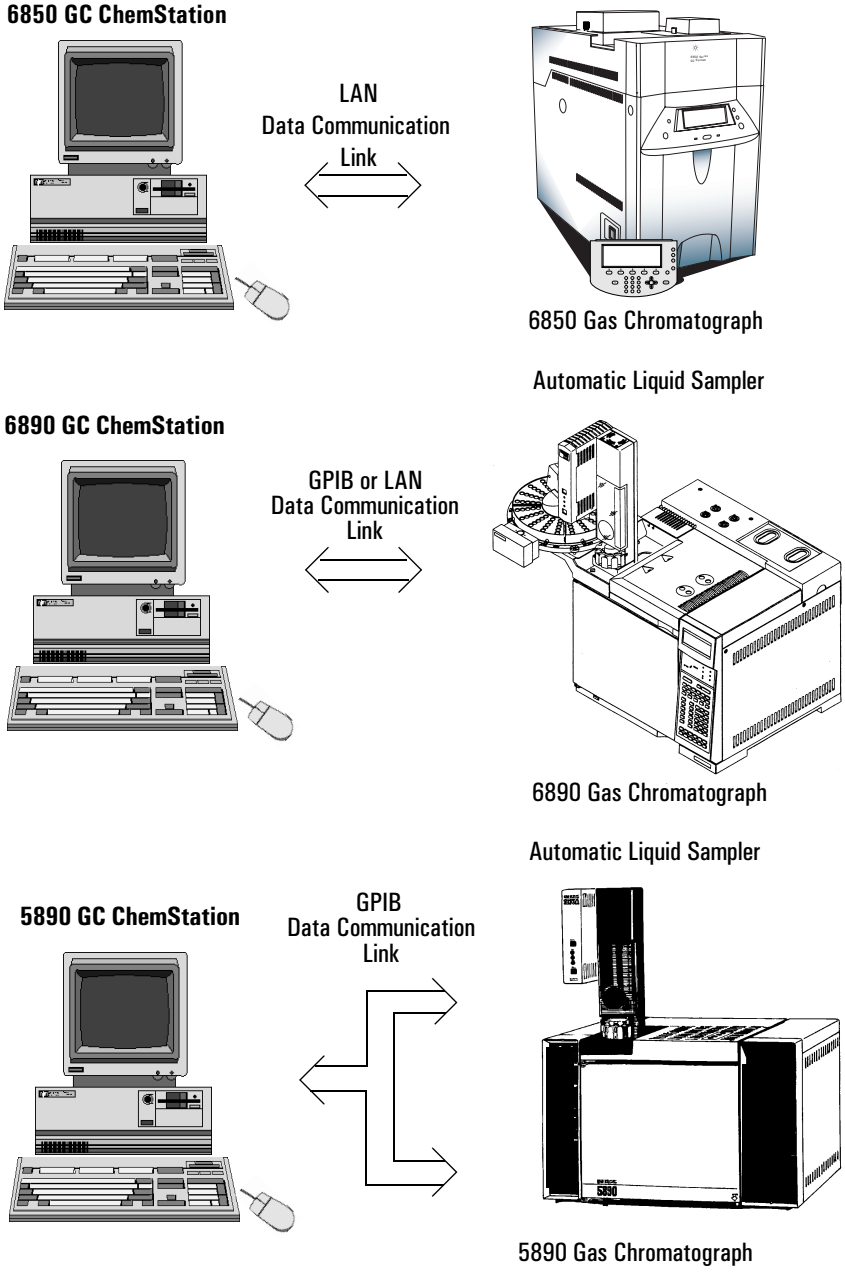
The 6890 or 5890 GC with a GPIB interface or 6890 or 6850 GC with a LAN card can achieve maximum performance by using the ChemStation software. The ChemStation can fully control and automate many features of the GC and other instruments including an extensive range of sampler, column, and detector options. The ChemStation can:

- Automate sample injections using the Automatic Liquid Sampler
- Control Valves on a 5890 Series II GC, or control valves and/or relays by adding a **19405B Sampler/Event Controller** to any 5890 GC
- Automate the Automatic Liquid Sampler, when an injection tower is installed in either the front, back, or both injection ports of a GC
- Provide automatic access to 100 sample vials by adding a tray to the Automatic Liquid Sampler and use identifying barcodes on each vial for full automation with the ChemStation by adding a **G1926A Bar Code Reader**

Putting the system together

The ChemStation software communicates with analytical equipment via GPIB or LAN data communications.

- Chapter 1 gives an overview of the ChemStation software and associated learning products
- Chapter 2 describes how to install a LAN communication interface board in your computer
- Chapter 3 describes how to install GPIB interface board(s) in your computer
- Chapter 4 describes how to install the new ChemStation software
- Chapter 5 describes how to add instrument modules to an existing A.09.xx ChemStation
- Chapter 6 describes how to configure your instrument(s) after your software is installed
- Chapter 7 describes how to validate and start your newly installed ChemStation
- The Appendix describes how to import data and method files to the ChemStation revision A.09.xx from your 3365 ChemStation


6850 GC ChemStation
LAN
Data Communication
Link
6850 Gas Chromatograph
Automatic Liquid Sampler
6890 GC ChemStation
GPIB or LAN
Data Communication
Link
6890 Gas Chromatograph
Automatic Liquid Sampler
5890 GC ChemStation
GPIB
Data Communication
Link
5890 Gas Chromatograph

Where to start

If you have just received your Agilent ChemStation and would like to use it for the first time, you have come to the right place.

If you are going to perform the initial installation yourself, take the time to read this entire booklet first. It is important to read each section in the order that it is presented. Terminology and information introduced in one section is assumed to be understood in following sections. If there are parts that you do not understand, please call Agilent Technologies for assistance.

If your ChemStation was fully installed by Agilent Technologies, you may want to read through this booklet for an overview of how your system can be configured. Otherwise, refer to the pages listed below for complete details.

Installation type	Location
New installation or upgrade	page 61
Bundled packages	page 61
Client/Server on a network	page 68
Add or change an instrument module on an existing A.09.xx ChemStation	page 74
Importing 3365 ChemStation data and method files	page 110

This booklet assumes that you are familiar with Microsoft® Windows NT® or Windows 2000®.

PC requirements

The ChemStation software is designed to run on an IBM-compatible personal computer under a Microsoft Windows NT 4.0 or Microsoft Windows 2000 operating environment with appropriate service packs also installed. The minimum hardware requirements your system needs to run the ChemStation software successfully are:

- Personal computer with an Intel Pentium processor (166 MHz or greater)
- Super VGA display (800 × 600 resolution)
- 1.2 GB hard disk
- CD-ROM drive
- 48 MB RAM for a 2D single instrument configuration, plus 8 MB RAM for each additional instrument configured,
  or
  64 MB RAM for a 3D single instrument configuration (LC, KC/MSD or CE), plus 8 MB RAM for additional applications such as the ChemStore database.

A Pentium III 600 MHz (or faster) PC with 128 MB (or greater) RAM is recommended.

Software compatibility

- Full compatibility with analytical information obtained on previous ChemStations (revision A.03.xx, A.04.xx, A.05.xx, A.06.xx, A.07.xx, and A.08.xx)
- Data acquired for GCs, LCs, and CEs on previous DOS versions of the ChemStation can be processed with the new version
- Sequences developed for LCs and CEs on previous versions of the ChemStation will run on the new version without restrictions. Sequences developed for GCs on previous 3365 versions of the ChemStation will run on the new version for the purposes of reprocessing only.
- LC and CE Methods developed on previous versions of the ChemStation can be used directly with the new version. No conversion is necessary to run these methods. GC Methods developed on previous 3365 versions of ChemStation can be converted to run on the new version provided that they don't include macros, and that both the previously developed and converted methods are for the same instrument model (for example, a 5890 GC).
- Prerun and/or post run programs may need to be modified or rewritten.
- Screen saver software should not be used together with the ChemStation. Screen savers use PC resources that may result in the loss of data from the GC during high data collection periods.

Learning products

A wide range of learning products are supplied with your ChemStation software.

Documents

- This and other *Installing* handbooks describe how to prepare your ChemStation for operation by installing the necessary hardware and software. *Installing* books are specific to various modules that may be incorporated into the ChemStation. You may receive more than one with your shipment.
- The *Understanding Your ChemStation* handbook provides a discussion of ChemStation concepts to increase your understanding of how the ChemStation works
- An online *Macro Programming* guide describes how to work with this powerful command set to customize and expand the capabilities of your ChemStation. Choose *Commands* from the Help menu to access this online guide.

Related setup and maintenance information

- A **README** file and **Software Status Bulletin** contain information on items such as added new features, known work-arounds, and corrections that could not be included in this manual at the time of printing. To access the readme.txt file from the Start menu in the Task Bar, select `Programs/ChemStations/readme.txt`. The readme.txt file is also located in the \G2070\Disk1 directory of the ChemStation CD-ROM. The Software Status Bulletin is located in the *Support\SSB* directory of the ChemStation CD-ROM.
- An automatically updated *Logbook* contains any error conditions discovered during operation and corrective actions (if required). To access, choose *Logbook* from the View menu, then double-click the entries. The most recent entries are at the top of the list.

- A *User-Contributed Library* containing utilities and macros created by internal and user contributed sources to help you customize your installation to meet your specific needs
- Microsoft Windows NT or Windows 2000 online help and handbooks
- Hardware handbooks for each instrument, including the PC

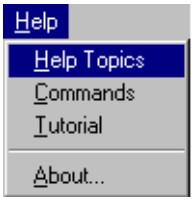
Online help system

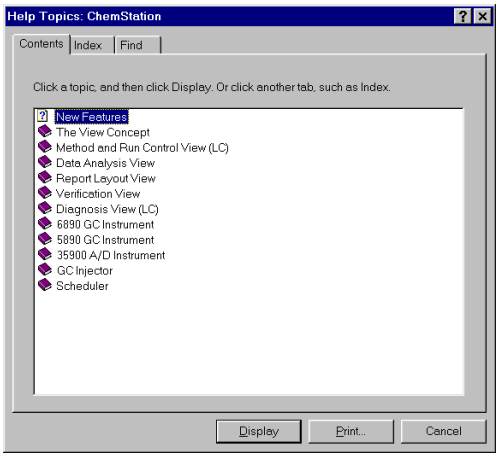
An extensive *online help system* provides reference material, step-by-step instructions, and a completely cross-referenced commands set for your ChemStation. There are two ways to access help and three searching utilities in the Help system.

Accessing online help

Click the `Help` button in any dialog box (or press the `<F1>` key) to access context-sensitive reference material. *Online reference material* explains what each ChemStation function does and defines the entries necessary to accomplish it.

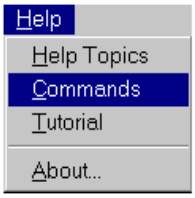
To access three options including *Help Topics*, *Commands*, and *Tutorial*, select *Help* from the Main menu.

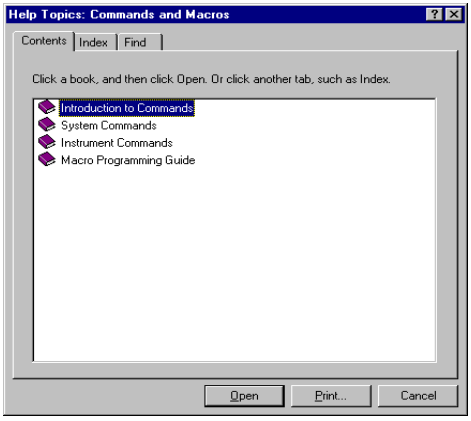




- Choose *Help Topics* from the Help menu to display a list of categories for the ChemStation system, including new features for the ChemStation revision A.09.xx. Click the appropriate category, then click the topic you want to view.

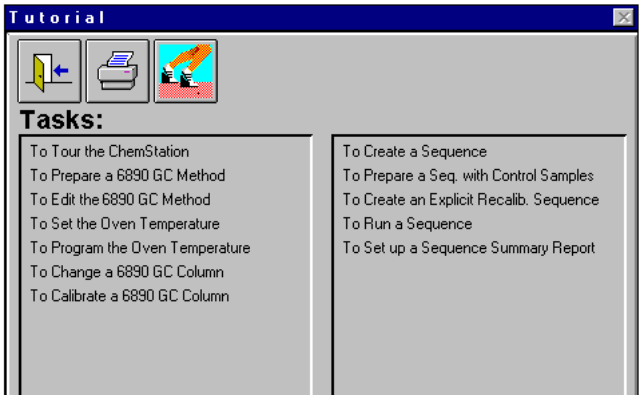
These topics provide *online step-by-step instructions*. Online step-by-step instructions include the most frequently used ChemStation tasks, such as how to Run a Method, Integrate a Data File, Annotate a Chromatogram, Generate a Report, and more.





- To display command categories for your ChemStation and the online *Macro Programming* guide, choose *Commands* from the Help menu. Click the appropriate category, then click the command you want to view.

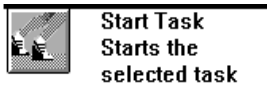
The *commands* online help includes extensive information for each command, such as the name, group, syntax, parameters, discussion, return value, and examples (where possible). The *Macro Programming* guide describes how to work with the command set to customize your ChemStation.

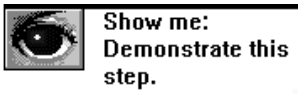


- To access the tutorial, select *Tutorial* from the Help menu. A list of available tasks for the current ChemStation View is displayed. An *integrated tutorial*

is provided as part of your ChemStation software. This self-paced, hands-on introduction will help you learn how to use selected features. If you are a new user, start by going through this training.

The *Tutorial* guides you through each task with step-by-step instructions that you may either choose to perform yourself by selecting the *Start Task* button, or have a list of steps provided by selecting the *Show Me* button. If you select the *Show Me* button, the ChemStation performs the first step for you and provides you with a list of additional steps to complete the task. You can use these step-by-step instructions on your own data files, methods, and sequences, or on the sample files specified in the help text.





Help searching utilities

There are three searching utilities in the Help system which are *Contents*, *Index*, and *Find*.

- *Contents* lists help topics by category. Click `Contents` and follow the system prompts.
- *Index* lists all help topics alphabetically. Click `Index` and follow the system prompts.
- *Find* enables you to perform a full text search on specific words or phrases. The *first time* you use the find utility, Windows will create a database of all the words in your help system.

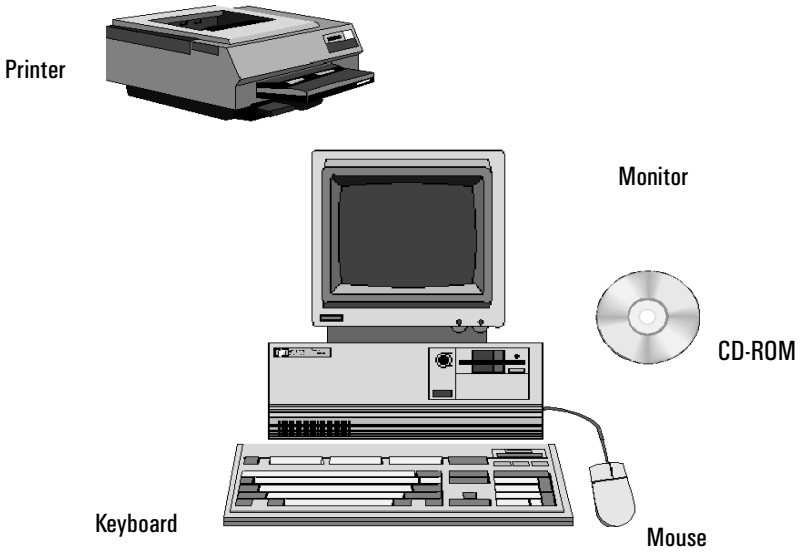
To create the database, click `Find` and follow the system prompts. Once the database is created, you will not be prompted to perform this process again.

To perform full text searches, click `Find` and follow the system prompts.

Meet the GC ChemStation

The GC ChemStation system, when assembled and operational, becomes a complete personal workstation with many capabilities. It includes several components that may or may not be installed when they arrive.

Although your particular computer may not look exactly like the illustration below, the functionality will be similar.



Contents of ChemStation CD-ROM

The following ChemStation software is supplied on CD-ROM. The CD-ROM contains the executable files for all modules that belong to the ChemStation product family. In order to install a module, you have to supply a valid license registration number for the module. These numbers “unlock” the protected CD-ROM. They are included with the original product and are your proof of license.

Installation Qualification Utility

The ChemStation comes with a utility that qualifies and documents the completeness and integrity of a new installation.

After installation of the ChemStation software, selecting the Installation Qualification Utility can be accessed by *Programs/ ChemStations/ Installation Qualification* from the windows task bar start button.

ChemStation Software Status Bulletin

The Software Status Bulletin is a document reflecting the results of Agilent Technologies defect logging, tracking, and repair methodology by publishing the current status of ChemStation application software products (known defects and additional information).

The SSB is located in the *Support\SSB* directory of the ChemStation CD-ROM.

If you have a software contract, you will receive the ChemStation *Software Status Bulletin*.

ChemStation Revision History

The revision history is targeted towards users who may have to consider revalidating their analytical data system after upgrading to a new revision of the application software. The *Revision History* contains the revision history of all products that are part of the ChemStation product family.

The history files are located in the *Support\History* directory of the ChemStation CD-ROM.

User-Contributed Library

The contents of this library are intended to help users develop and customize the installations for their specific needs to get the most out of their investment.

The content of the library comes from both Agilent internal and user-contributed sources. Each contribution is checked for functionality but does not necessarily go through the same level of formal testing procedures as the actual product. Therefore, Agilent Technologies does not guarantee the correctness of the contributions.

The *User-Contributed Library* comprises utilities and macros. Each contribution is delivered with a specific README.TXT file which can be viewed using any ASCII text editor.

Chemical Analysis Group Supplemental Information

The *Chemical Analysis Group Supplemental Information* contains additional media, graphics drivers, and printer drivers for bundled packages shipped after the ChemStation software release. Please refer to the documentation supplied with the CAG *Supplemental Information* for further details on the specific drivers and how to install them.

The *Chemical Analysis Group Supplemental Information* is available with the ChemStation computer bundle on CD-ROM.

2

Installing the Local Area Network (LAN) Communications Interface Board

- **6850, 6890 GCs**
- **35900E A/D module**

About the LAN

Revision A.09.xx of the ChemStation software provides LAN-based instrument control and data acquisition for the 6850 and 6890 GCs and the 35900E A/D control module. You can easily control and monitor instruments by connecting them to a LAN on which the ChemStation PC resides. This allows the ChemStation PC to be located up to, for example, 100 meters from the instruments it controls on a supported stand-alone LAN or anywhere in the world on a TCP/IP based network supported by your network administrator.

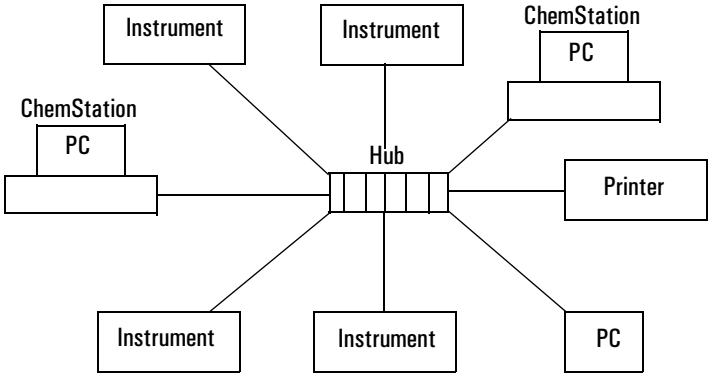
Each ChemStation can support up to four instruments on the LAN and any number of ChemStations can be attached to the LAN.

Installation of LAN boards

Before attaching your ChemStation PC or any of the instruments it will control to a LAN, verify that they have a LAN communications interface board (CIB) installed.

For details on installing a LAN board in your PC or in one of the instruments the ChemStation will control, see the documentation that accompanies the LAN card.

LAN cabling



The supported LAN configuration is an Ethernet IEEE 802.3 industry standard 10-Mbps 10Base-T local area network. Cabling between the hub and LAN boards can be category 3, 4, or 5 UTP with RJ-45 connectors. The maximum supported cable distance is 100 meters. The only supported server for this configuration is the CAG Bootp server delivered on the ChemStation install disk.

LAN configurations that do not meet these specifications must be supported by your network administrator.

PC LAN drivers

Your PC installation of Windows must have TCP/IP protocol support installed. See your Microsoft Windows documentation for details on installing TCP/IP-based protocol and the LAN board software drivers on your PC. Windows requires software drivers provided by the LAN board manufacturer.

Each LAN board on the LAN requires a unique IP address, subnet mask and default gateway. See the CAG Bootp server on-line documentation for help in assigning these numbers.

How to install the CAG Bootp server

The CAG Bootp server is used for the central administration and distribution of IP addresses for instruments. The CAG Bootp server does not have to be located on the same PC as a ChemStation. The server can be located on any PC that resides on the LAN. The PC on which the CAG Bootp server resides must be running Windows NT or Windows 2000, and must have TCP/IP protocol support installed.

To install the CAG Bootp server:

1. Start Windows and insert the ChemStation CD-ROM into the CD-ROM drive.
2. From the Start menu in the Task Bar, select `Start/Run`.
3. At the command line, type *drive*:`\bootp\Setup`, then click `OK` (e.g., D:\bootp\Setup).
4. Follow the prompts that appear to install the CAG Bootp server on the PC.
5. Start the program by selecting it from the Start menu, then select `Help Topics` from the Help menu for information on configuring the LAN using CAG Bootp server.

The CAG Bootp server must be running to initiate communication between an instrument and the ChemStation. After this initial communication, the server does not need to be running for proper communication between the ChemStation and the instruments it controls on the LAN. If the instrument is powered down, the CAG Bootp server must be running to connect the ChemStation PC to its respective instruments through the LAN.

3

Installing GPIB Interface Boards

- **6890, 5890 GCs**
- **35900 A/D module**

Digital vs. analog data acquisition

The ChemStation software achieves maximum performance with Agilent analytical equipment that has a LAN or GPIB communications interface board installed, acquiring data digitally.

However, other instruments and devices can also be used with the ChemStation by connecting them through one of the Analog-to-Digital converters, listed below:

- 35900C (requires a GPIB board)
- 35900D (requires Windows NT only)
- 35900E (requires a LAN or GPIB board)

To complete the communications link between the ChemStation on your PC and the analytical equipment connected to it, your PC must be equipped with the applicable communications board(s)—GPIB/LAN and/or 35900D.

Although the 35900D is compatible with the A.09.xx ChemStation, this module is no longer available from Agilent Technologies.

Installing a bundled package

If you purchased a bundled package from Agilent Technologies, your GPIB/LAN interface board, ChemStation software, and one instrument module are already installed. Go directly to *Configuring the 6850 GC, 6890 GC or 5890* in Chapter 6 to configure your new GC. If you need to add a module, refer to Chapter 5, “Adding or Changing a ChemStation Module".

Caution When using a GPIB board, make sure you have an available IRQ. IRQ conflicts will result in unpredictable system behavior.

Installing interface boards

Before installing the ChemStation software, make sure the computer hardware is setup with one or more of the following boards:

- GPIB 82341 board or GPIB 82350 board—Installation described on the following pages.
- 35900D board(s)—Installation described in the *Installing Your AD ChemStation* manual.
- LAN card—Installation described in Chapter 2.

GC and interface possibilities			
	LAN card	**82350 GPIB**	**82341 GPIB**
6850	Yes	No	No
6890A / Plus	Yes	Yes	Yes
6890N	Yes	No	No
5890	No	Yes	Yes
35900C	No	Yes	Yes
35900D	Obsolete	Obsolete	Obsolete
35900E	Yes	Yes	Yes

Installing the GPIB interface board

Since the 82350 GPIB or the 82341C GPIB boards can be installed in several different computers, the following instructions are general. If you have difficulty during the installation, consult your computer manual or dealer.

The 82341 GPIB board: This board requires the user to install the Standard Interface Control Library (SICL) after installation of the board. See *Configuring the 82341 GPIB board* upon completion of GPIB cabling. Because this board has partial plug-and-play capabilities, it is not necessary to set the switches.

The 82350 PCI high-performance GPIB interface card: This board requires a free PCI slot in your PC. To install it, follow the instructions provided with the board or the instructions for installing an 82341 board below. Place the board in any free PCI slot. After installation, install the I/O Libraries and configure the 82350 board as described later.

WARNING Disconnect your computer and all attached electrical devices before removing any covers. Be sure to wear the anti-static strap when installing the boards.

1. Turn off and unplug your computer, then remove the computer's cover(s).
2. Select any empty slot; however, it is best not to place the GPIB board next to a video board.
3. Write down the slot number you will use and store it for later use. (Some EISA computers require slot number and board type information after installation. For computers that require this information, refer to the appropriate installation documentation.)
4. Loosen the mounting screw and remove the selected empty slot's rear plate.
5. Holding the board by its edges, insert the board into its slot. Make certain that the board's edge connector is fully seated. Lock the board into place with the mounting screw.
6. Replace the computer's cover(s). Plug in, and restart the computer.

GPIB cabling

When connecting GPIB devices together, there are several basic rules to observe.

1. Whenever possible, turn off and unplug the computer and all attached devices before the GPIB cables are installed.
2. Before connecting any analytical instrument to a GPIB cable, consult the documentation supplied with each device and determine its GPIB address. No two devices connected to the ChemStation may have the same address. Write down each GPIB address. This information will be needed later.
3. Where possible, use GPIB cables that are two meters long or less.

   Cable (0.5 m) (part no. 10833D)
   Cable (1.0 m) (part no. 10833A)
   Cable (2.0 m) (part no. 10833B)
   Cable (4.0 m) (part no. 10833C)

Caution The ChemStation does not support GPIB extenders.

4. Connect one end of a GPIB cable to the computer's GPIB connector.

   Be certain that you properly tighten all GPIB connectors. A poor connection causes errors which are difficult to diagnose.
5. Connect GPIB devices in a “chain”. A chain occurs when a GPIB device is connected to the next GPIB device, and it is, in turn, connected to the next, and so on. Try to avoid “star” configurations (connecting all of the devices to a central point).

   Example: If you are installing a 35900C and you already have a 5890 GC installed, connect the 35900C to your 5890 GC. If you are installing only a 35900C, connect the 35900C directly to the GPIB card in your PC.

Configuring the 82341 or 82350 GPIB board

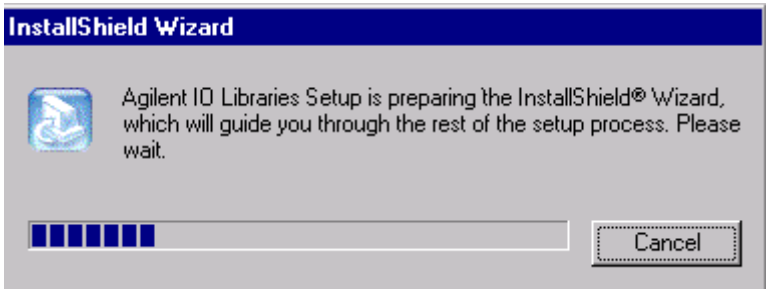
Configuring interface drivers in Windows NT 4.0

Installing new I/O Libraries

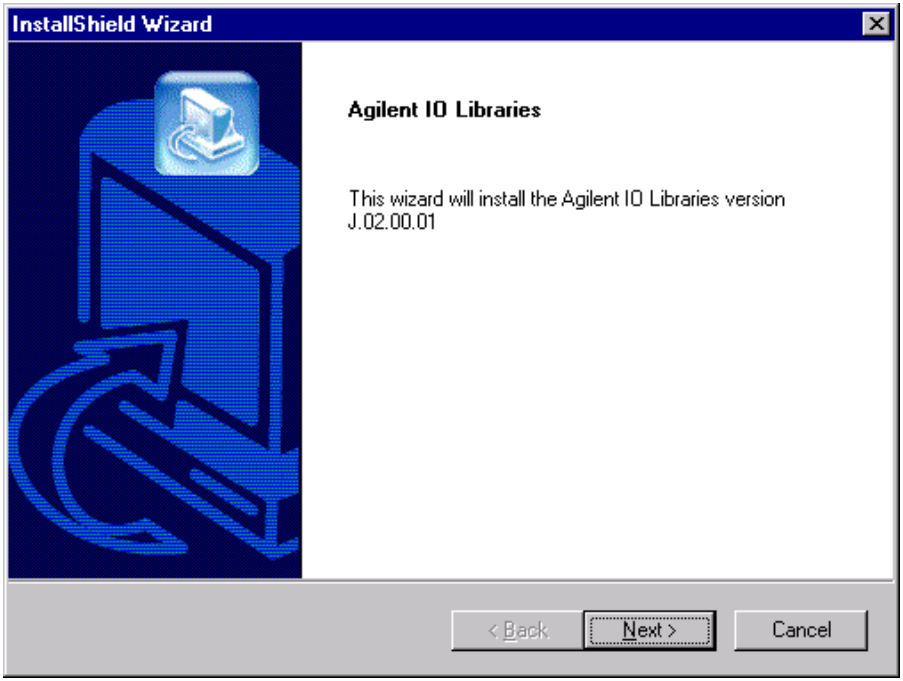
After installing the GPIB board in the computer, it is necessary to install the corresponding driver and configuration software, using the installation program located on the Agilent ChemStation CD-ROM in the **\GPIB** folder. The Agilent ChemStation A.09.01 and greater requires version J.02.00.01 of the I/O Libraries. These libraries are supported under both Windows NT 4.0 and Windows 2000 Professional. To install the I/O Libraries proceed with the following steps:

Caution Before performing this installation, you must turn OFF "plug and play" capability in the BIOS for the PC.

1. Using Windows Explorer, locate and start '**iolibs.exe**' in the **\GPIB** folder of your ChemStation CDROM. Follow instructions in the installation wizard. This will install the Standard Interface Control Library (SICL) on your computer, update the registry, and add a new Program Group named **Agilent I/O Libraries**. The installation wizard appears to begin the I/O Libraries installation:

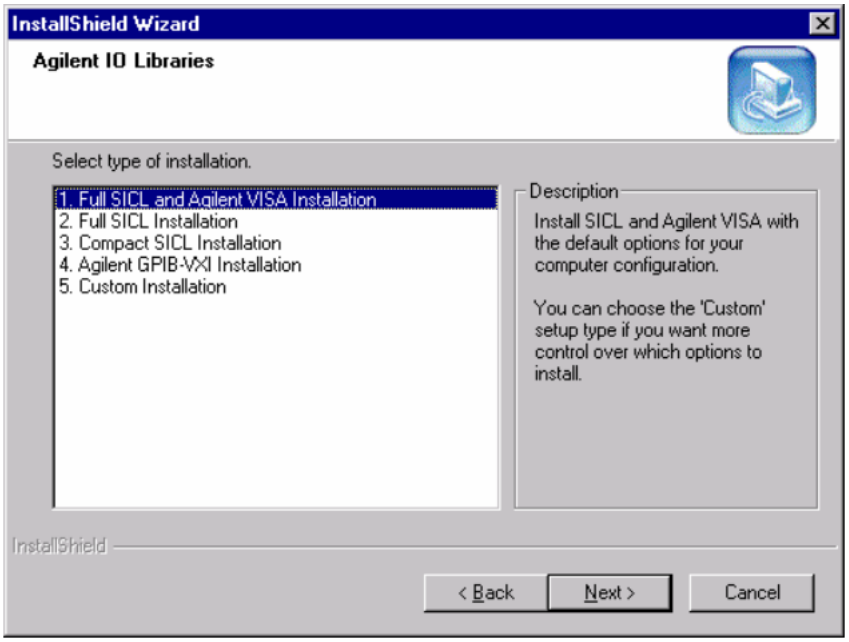


2. When the title screen appears, click **Next >** to go to the License Agreement screen. Then click **Next >** to accept license terms and to then display Readme Information:

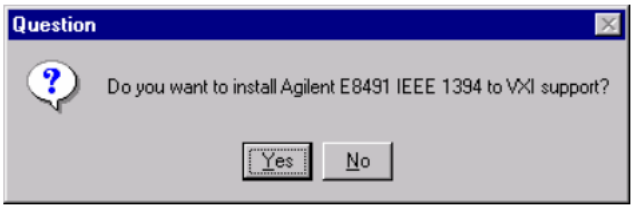


3. Click **Next >** to display the SICL installation directory screen. By default, SICL is installed in folder C:\Program Files\Agilent\IO Libraries. Click **Next >** if you accept the default setting, or select the folder you want and click **Next >** to display the VISA installation directory screen.
4. By default, VISA is installed in folder C:\program Files\VISA. Click **Next >** if you accept the default setting, or select the folder you want and click **Next >** to display the Select Type of Installation screen.

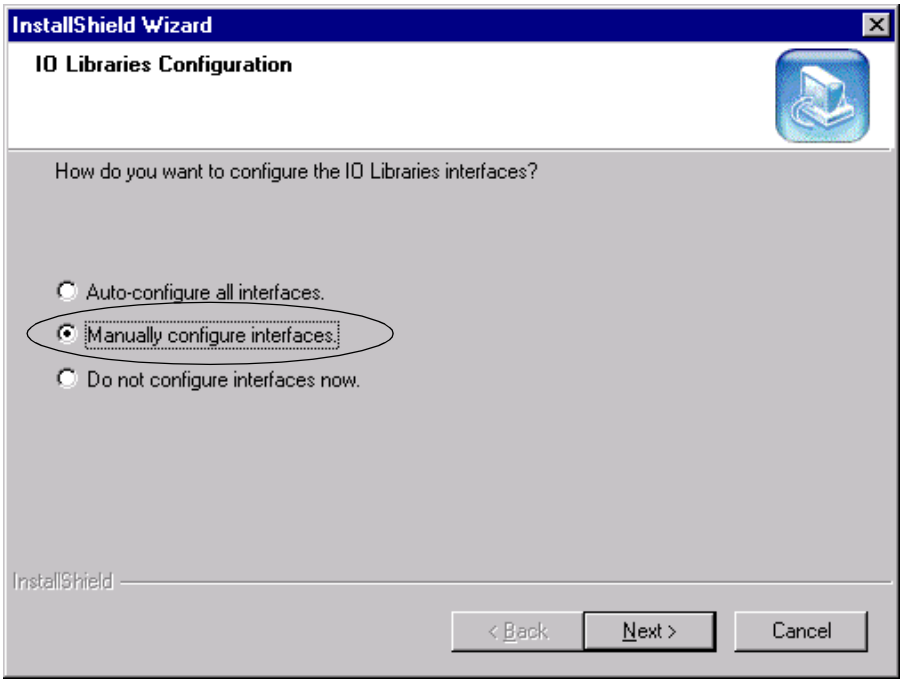
5. Choose installation **Option 1** for full installation of both SICL libraries and VISA components. Then click **Next >** to install Option 1:



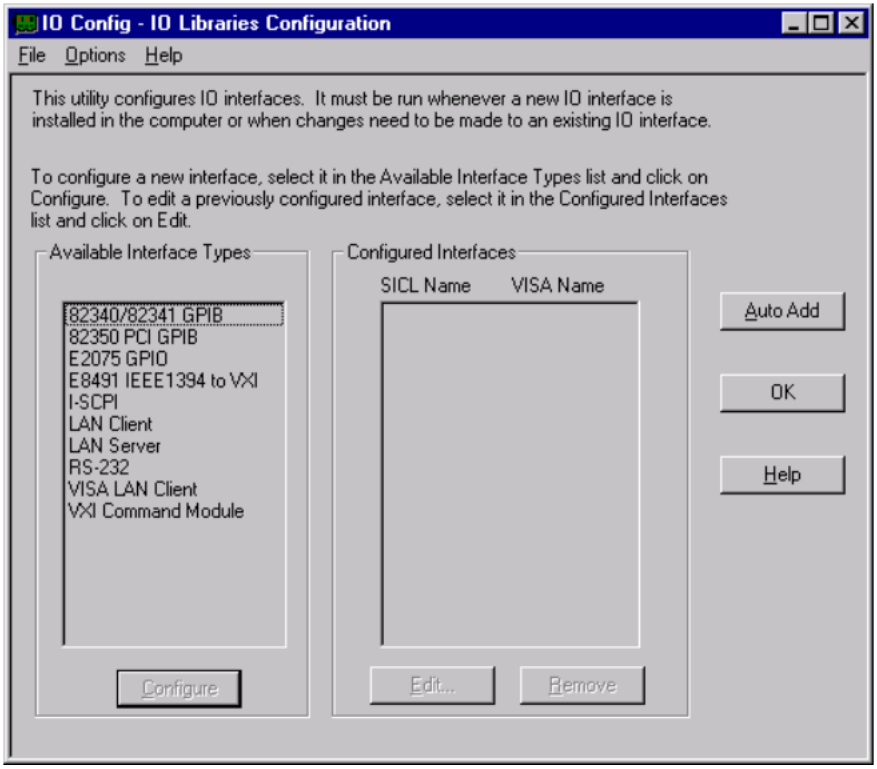
6. When prompted, select **Yes** to install E8491 IEEE 1394 to VXI support components. These are not needed for Agilent ChemStation configurations but can be installed without causing any problems:



7. Select **Manually Configure Interfaces** as shown in the following figure:



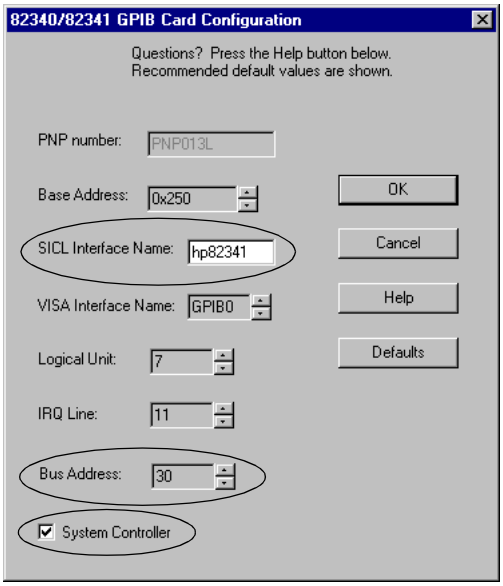
8. From the list of available interface types shown in the next screen, choose the appropriate one: i.e., either **82340/82341 GPIB** if you have an Agilent 82341C GPIB board installed, or **82350 PCI GPIB** if you have the Agilent 82350 GPIB board installed:

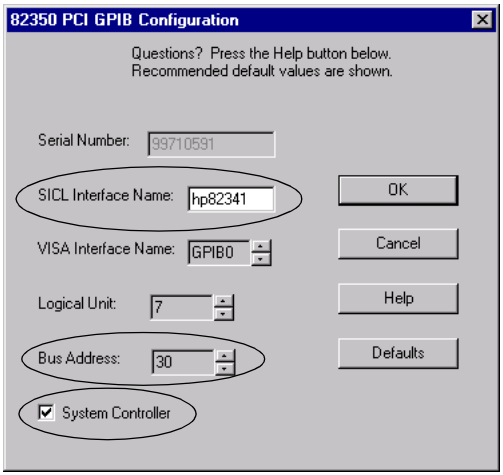


9. Select **Configure**. The configuration utility, now attempts to detect the selected GPIB interface in the PC to assign correct resources to the card.

10. Set the **SICL Interface Name** to **hp82341**, the **Bus Address** to **30**, and the **System Controller** flag as shown in the following figure. Note that appearance of the dialog differs slightly depending on the type of GPIB board installed.

Caution Type the **SICL Interface Name**, **hp82341**, in lower case letters for either GPIB card.





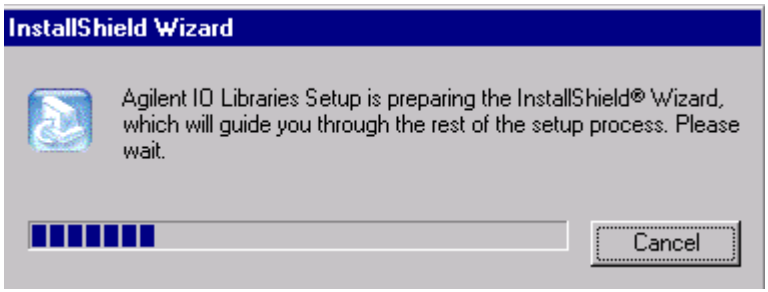
11. Select **OK**. The configured GPIB board should be listed under **Configured Interfaces** in the Interface Configuration Screen.
12. You have now successfully configured the GPIB Interface board. Restart the computer to complete the installation.

Note **If you replace an Agilent 82341 board with an Agilent 82350 board, or vice versa, first remove the configuration using the I/O Config Utility from the I/O Libraries Program Group before exchanging the board. After replacement, you must rerun the IO Config Utility to reconfigure correct drivers for the installed board.**

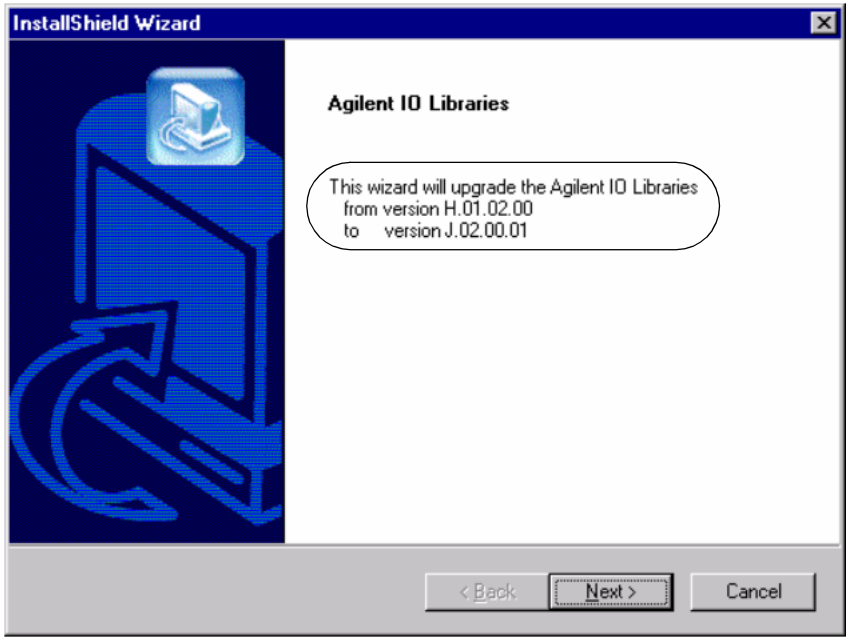
Upgrading existing I/O Libaries

After installing the GPIB board in the computer, it is necessary to install the corresponding driver and configuration software, located on the Agilent ChemStation CD-ROM in the **\GPIB** folder. The Agilent ChemStation A.09.01 and greater requires version J.02.00.01 of the I/O Libraries. These libraries are supported under both Windows NT 4.0 and Windows 2000 Professional. To install the I/O Libraries proceed with the following steps:

1. Using Windows Explorer, locate and start '**iolibs.exe**' in the **\GPIB** folder of your ChemStation CDROM. Follow instructions in the installation wizard. This will install the Standard Interface Control Library (SICL) on your computer, update the registry, and add a new Program Group named **Agilent I/O Libraries**. The installation wizard appears to begin the I/O Libraries installation:

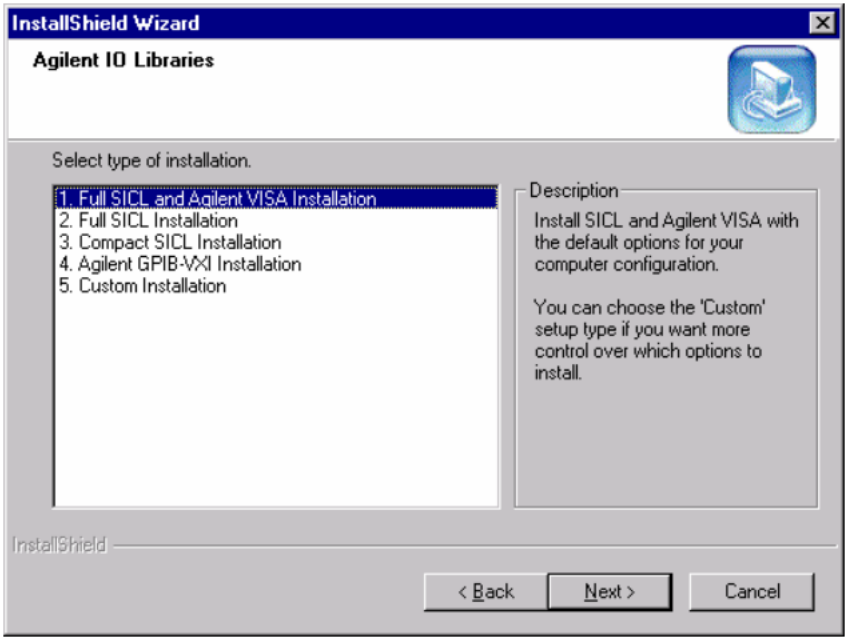


2. An Upgrade screen appears showing the current version installed and the new version to be installed:

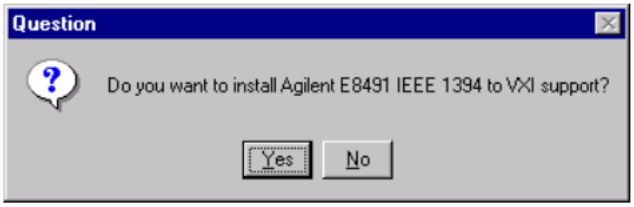


3. When the title screen appears, click **Next >** to go to the License Agreement screen. Then click **Next >** to accept license terms and to then display Readme Information.

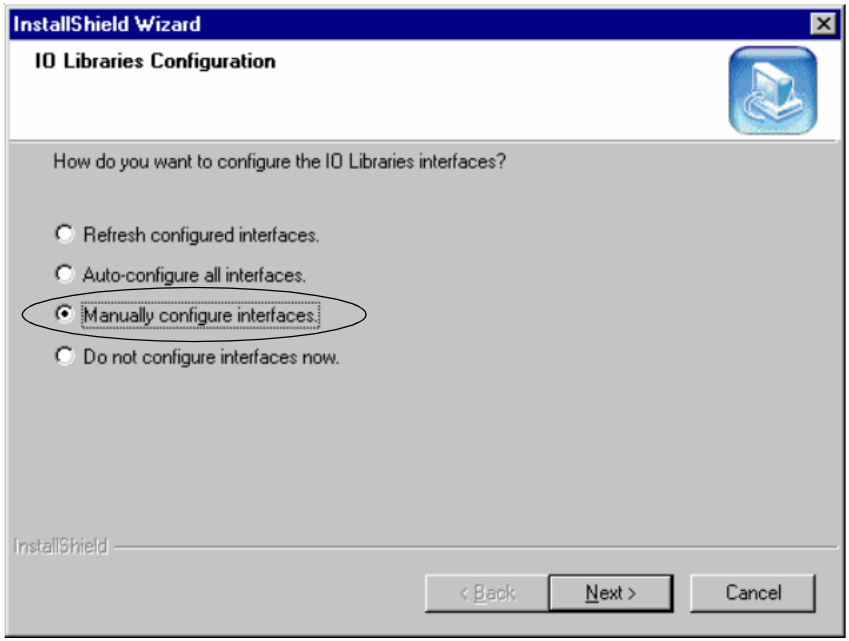
4. Choose installation **Option 1** for full installation of both SICL libraries and VISA components. Then click **Next >** to install Option 1:



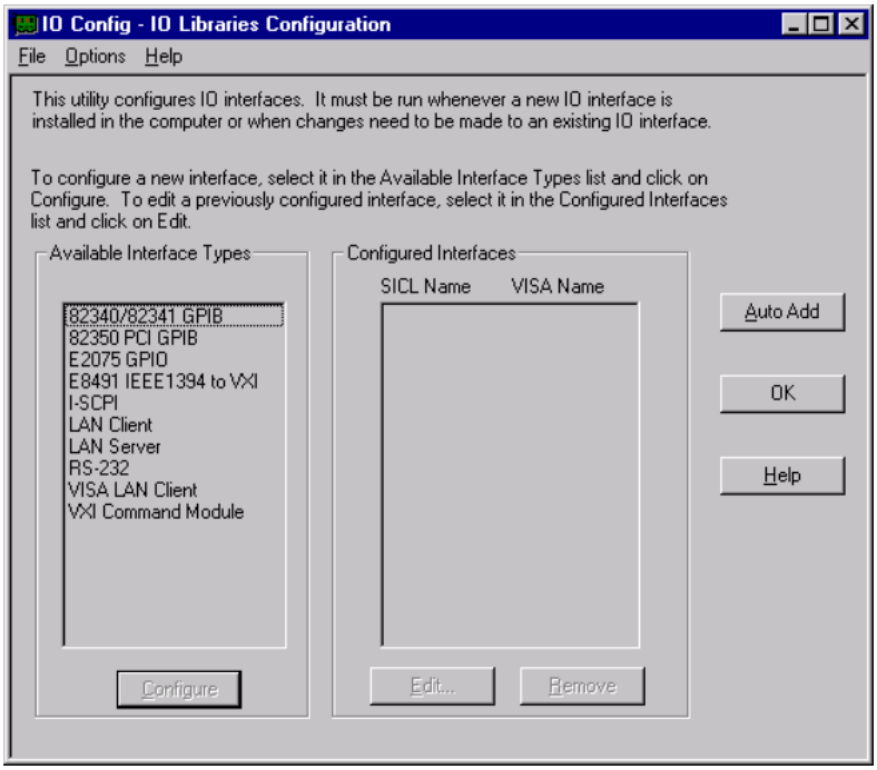
5. When prompted, select **Yes** to install E8491 IEEE 1394 to VXI support components. These are not needed for Agilent ChemStation configurations but can be installed without causing any problems:



6. Select **Manually Configure Interfaces** as shown in the following figure:



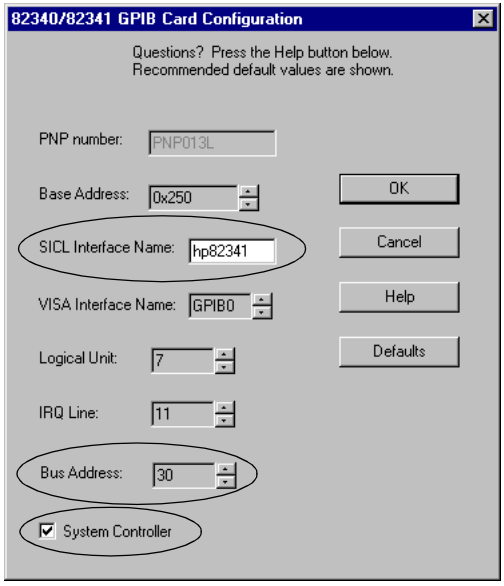
7. From the list of available interface types shown in the next screen, choose the appropriate one: i.e., either **82340/82341 GPIB** if you have an Agilent 82341C GPIB board installed, or **82350 PCI GPIB** if you have the Agilent 82350 GPIB board installed:

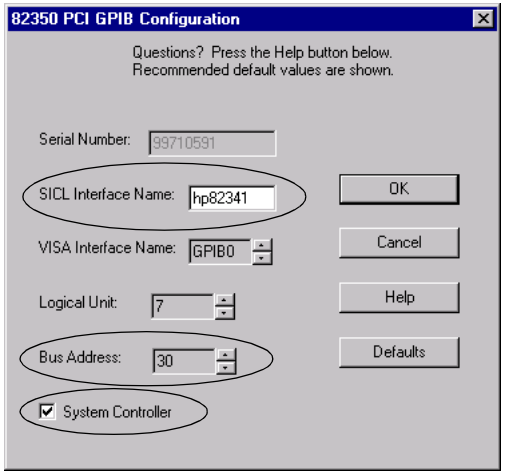


8. Select **Configure**. The configuration utility, now attempts to detect the selected GPIB interface in the PC to assign correct resources to the card.

9. Set the **SICL Interface Name** to **hp82341**, the **Bus Address** to **30**, and the **System Controller** flag as shown in the following figure. Note that appearance of the dialog differs slightly depending on the type of GPIB board installed.

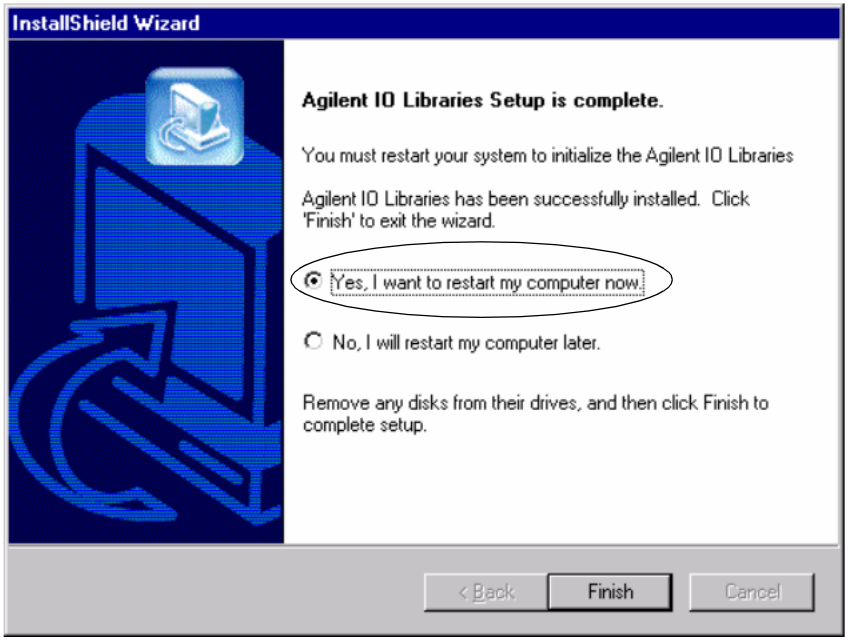
Caution Type the **SICL Interface Name**, **hp82341**, in lower case letters for either GPIB card.





10. Select **OK**. The configured GPIB board should be listed under **Configured Interfaces** in the Interface Configuration Screen.

11. You have now successfully configured the GPIB Interface board. Restart the computer to complete the installation.



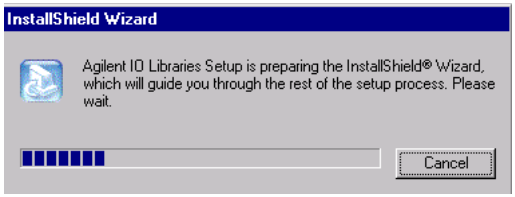
Configuring interface drivers in Windows 2000

Installing new I/O Libaries

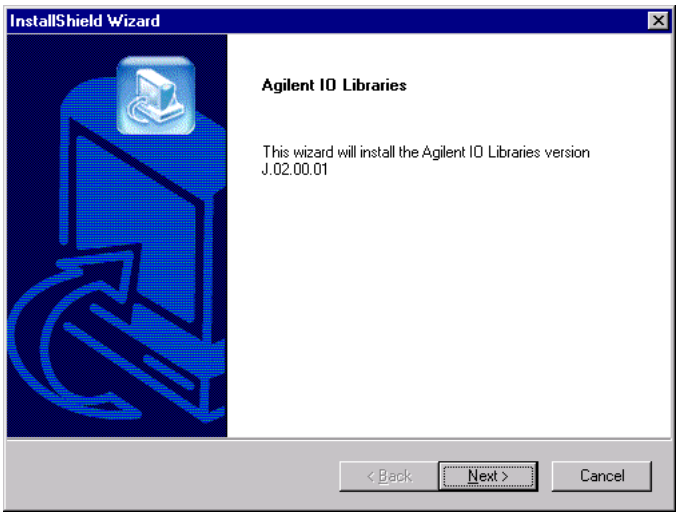
After installing the GPIB board in the computer, it is necessary to install the corresponding driver and configuration software, using the installation program located on the Agilent ChemStation CD-ROM in the **\GPIB** folder. The Agilent ChemStation A.09.01 and greater requires version J.02.00.01 of the I/O Libraries. These libraries are supported under both Windows NT 4.0 and Windows 2000 Professional. To install the I/O Libraries proceed with the following steps:

1. Turn the Computer ON. As Windows 2000 starts, the **Found New Hardware wizard** will start. At this time, select **Cancel**.

2. Using Windows Explorer, locate and start '**iolibs.exe**' in the **\GPIB** folder of your ChemStation CDROM. Follow instructions in the installation wizard. This will install the Standard Interface Control Library (SICL) on your computer, update the registry, and add a new Program Group named **Agilent I/O Libraries**. The installation wizard appears to begin the I/O Libraries installation:



3. When the title screen appears, click **Next >** to go to the License Agreement screen. Then click **Next >** to accept license terms and to then display Readme Information:

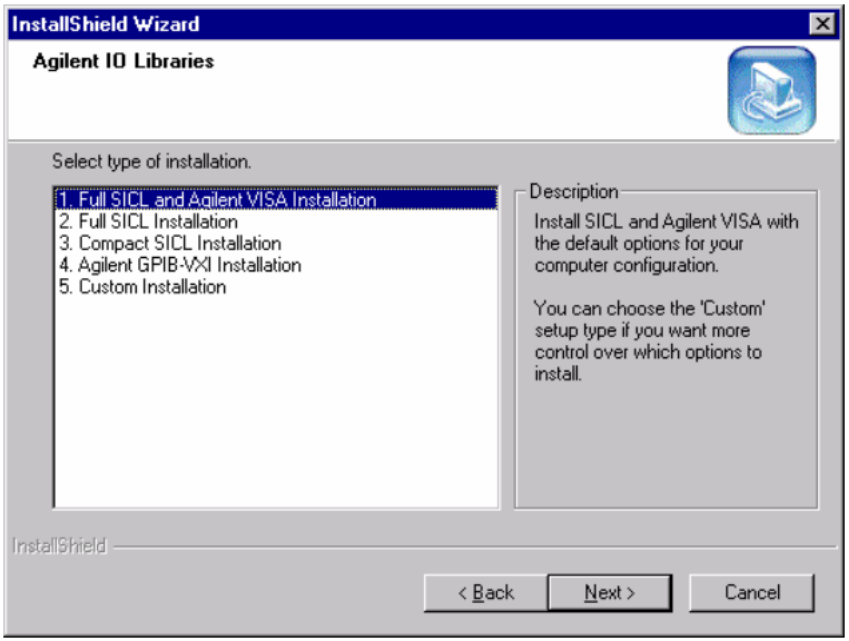


4. Click **Next >** to display the SICL installation directory screen. By default, SICL is installed in folder C:\Program Files\Agilent\IO Libraries. Click

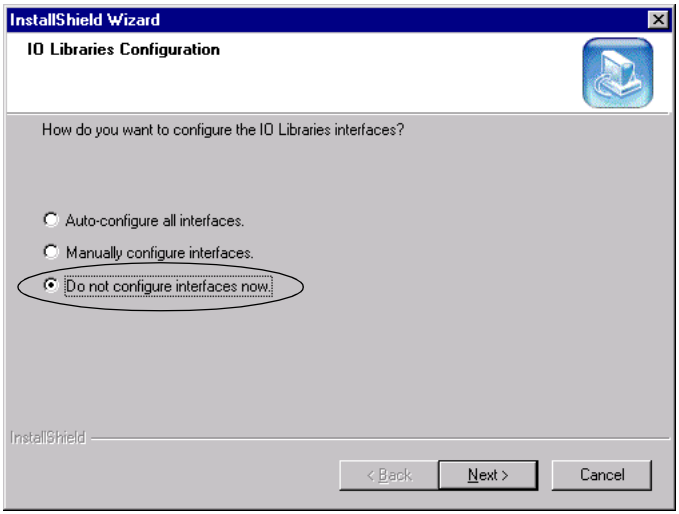
Next > if you accept the default setting, or select the folder you want and click **Next >** to display the VISA installation directory screen.

5. By default, VISA is installed in folder C:\program Files\VISA. Click **Next >** if you accept the default setting, or select the folder you want and click **Next >** to display the Select Type of Installation screen.

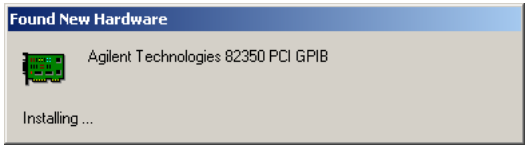
6. Choose installation **Option 1** for full installation of both SICL libraries and VISA components. Then click **Next >** to install Option 1:

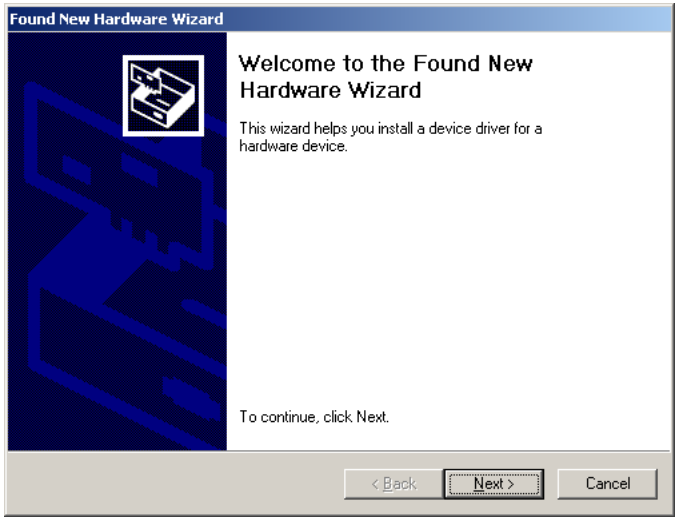


7. Select **Do not configure interfaces now** as shown in the following figure and click **Next >**.



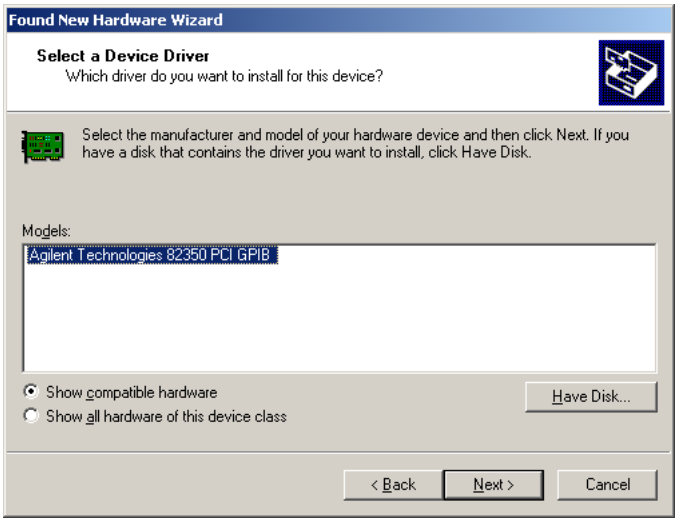
8. Power cycle the computer. As Windows 2000 starts, the **Found New Hardware** wizard will start. Click **Next >**:



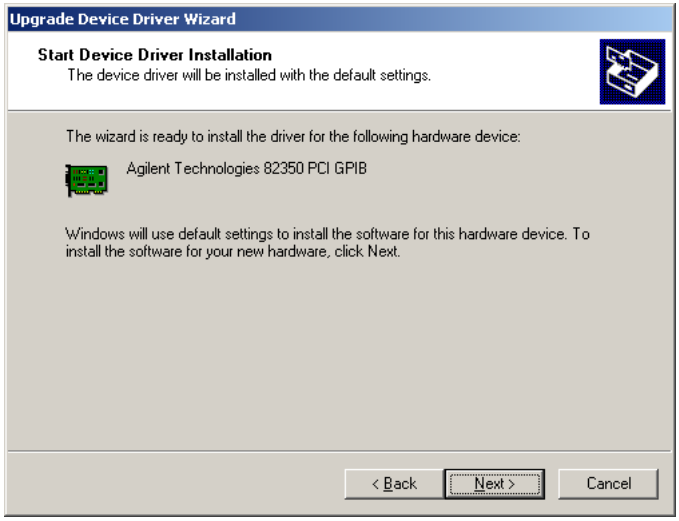


9. Select **Option 2** and click **Next >**:

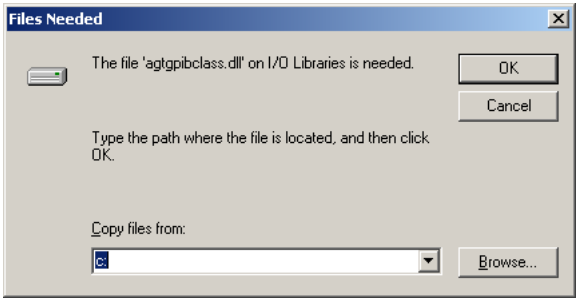
10. Click **Next >**:



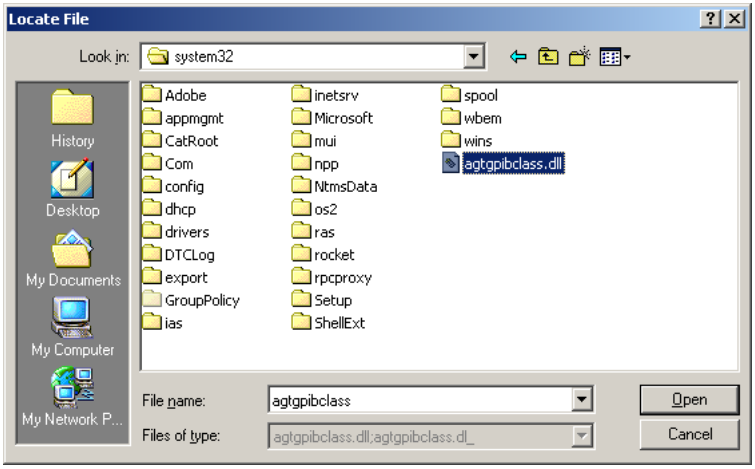
11. Click **Next >**:



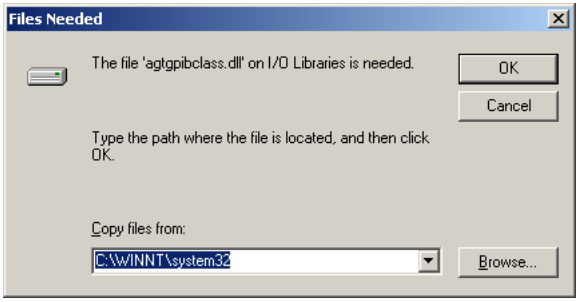
12. The wizard will ask for the location of the file **agtgpibclass.dll**:



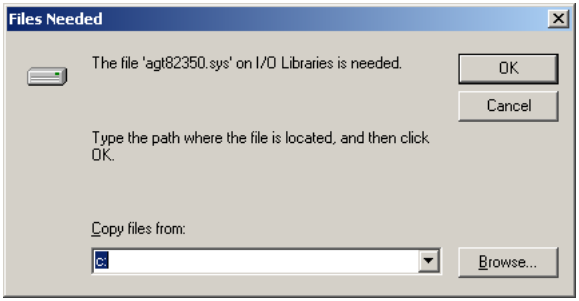
13. Browse to, and open, the folder **C:\windows\system32**:



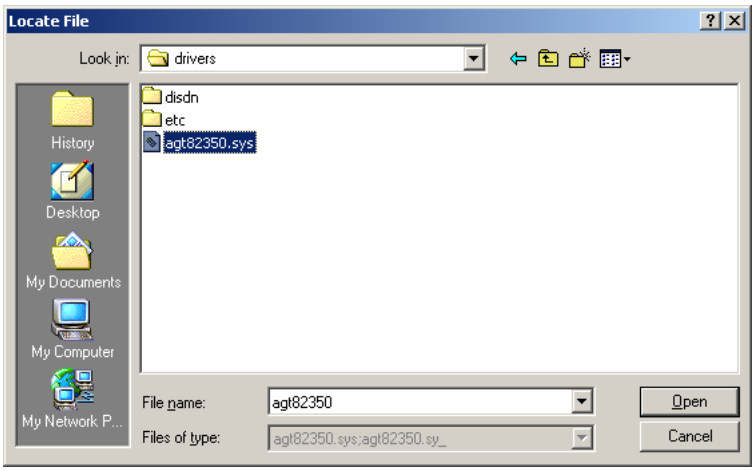
14. Select **OK**:



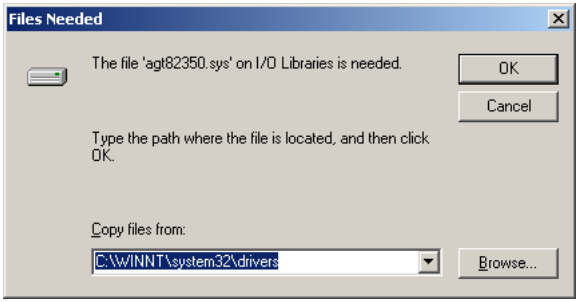
15. If an Agilent 82350 card is installed, the wizard will ask for the location of the file **agt82350.sys** as shown in the following figure. If an 82340C card is installed, the wizard will ask for the file **agt82340.sys**.



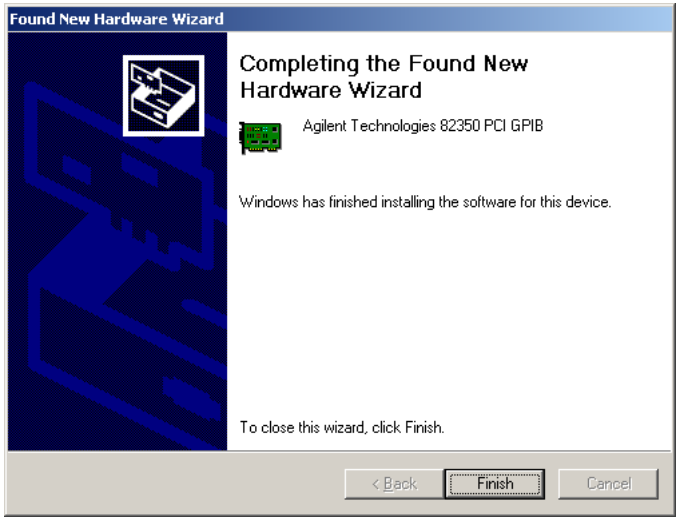
16. Browse to, and open, the folder **C:\windows\system32\drivers**:



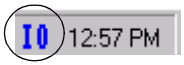
17. Select **OK**:



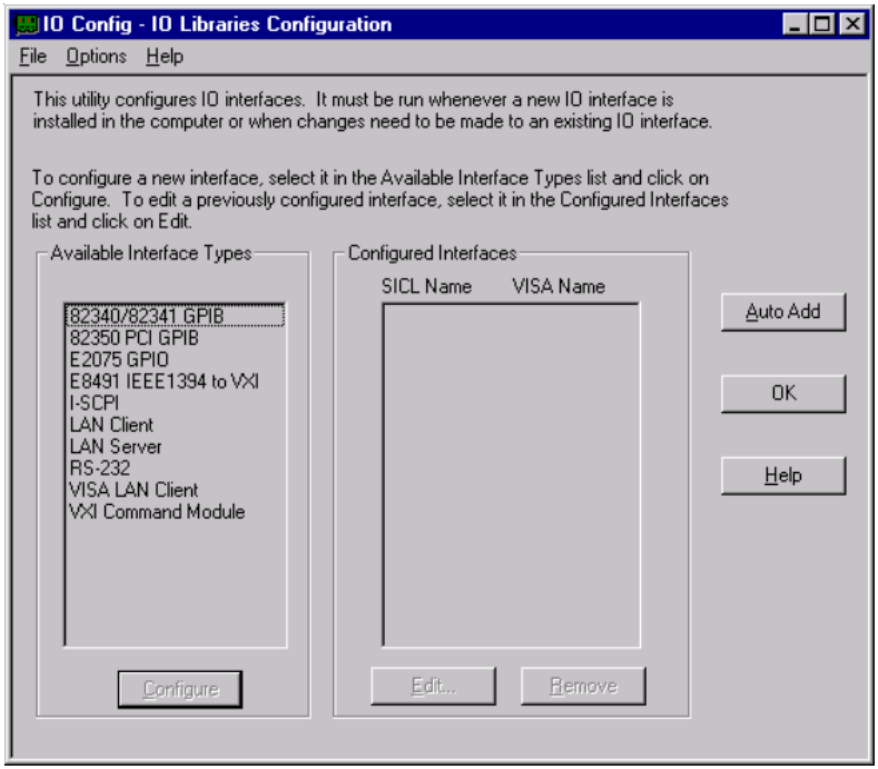
18. Select **Finish**:



19. Start the **IO Config Utility** by clicking the IO icon located on the Taskbar:



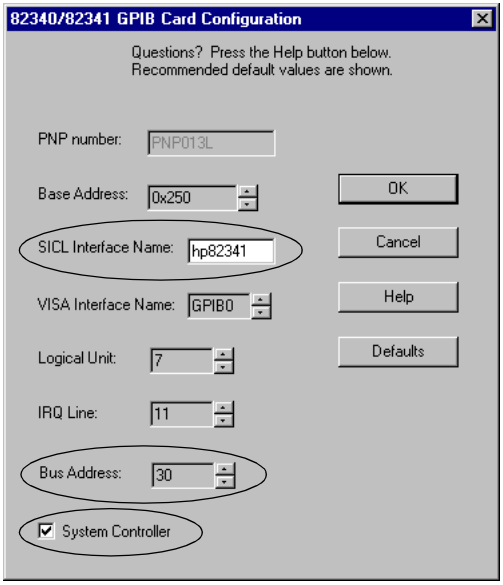
20. From the list of available interface types shown in the next screen, choose the appropriate one: i.e., either **82340/82341 GPIB** if you have an Agilent 82341C GPIB board installed, or **82350 PCI GPIB** if you have the Agilent 82350 GPIB board installed:

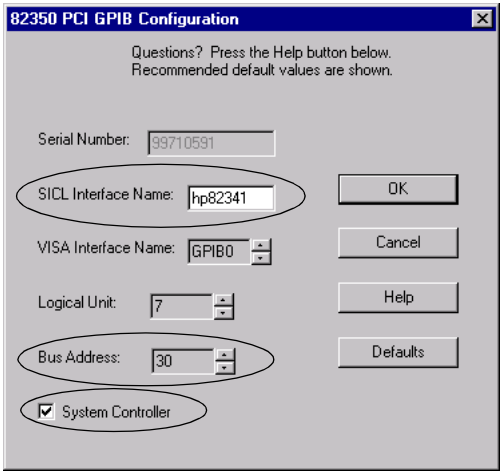


21. Select **Configure**. The configuration utility, now attempts to detect the selected GPIB interface in the PC to assign correct resources to the card.

22. Set the **SICL Interface Name** to **hp82341**, the **Bus Address** to **30**, and the **System Controller** flag as shown in the following figure. Note that appearance of the dialog differs slightly depending on the type of GPIB board installed.

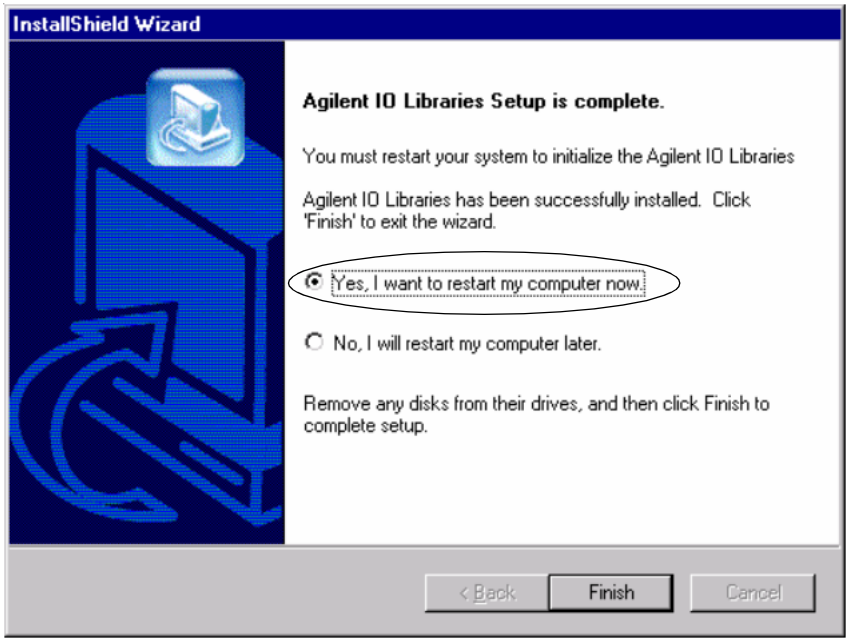
Caution Type the **SICL Interface Name**, **hp82341**, in lower case letters for either GPIB card.





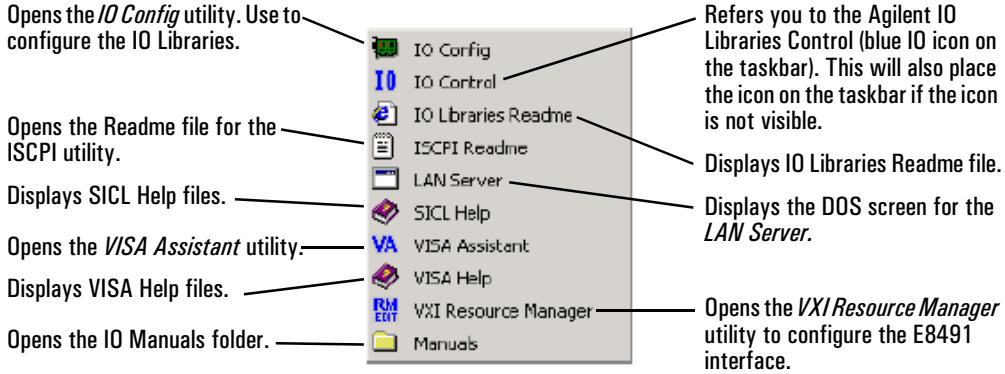
23. Select **OK**. The configured GPIB board should be listed under **Configured Interfaces** in the Interface Configuration Screen.

24. You have now successfully configured the GPIB Interface board. Restart the computer to complete the installation:



What was created during installation?

Depending upon the installation option selected, SICL and/or VISA components were installed, several program icons were created, and an Agilent IO Libraries Control was created. During installation, the Agilent IO Libraries program group was also created.



4

Installing the ChemStation

Overview

This section explains how to use the CD-ROM to:

- Install the Agilent ChemStation revision A.09.xx for the first time
- Upgrade existing ChemStation software to A.09.xx
- Install or upgrade the ChemStation as a Client/Server on a network
- Install the ChemStation Companion
- Install the LAN based user interface

If you are upgrading from the 3365 ChemStation, refer to the Appendix for details on backing up your data and method files before running this installation.

Listed below are a few other sources of information about the ChemStation that may be of interest to you when installing your system. Refer to them for additional information, if necessary.

- A **README** file and **Software Status Bulletin** contain information on items such as added new features, known work-arounds, and corrections that could not be included in this manual at the time of printing. To access the `readme.txt` file from the Start menu in the Task Bar, select `Programs/ChemStations/readme.txt`. The `readme.txt` file is also located in `\G2070\DISK1` folder of the ChemStation CD-ROM. The Software Status Bulletin is located in the `Support\SSB` folder of the ChemStation CD-ROM.
- An automatically updated *Logbook* contains error conditions discovered during operation and corrective actions (if required). To access, choose *Logbook* from the View menu, then double-click the entries. The most recent entries are at the top of the list.
- A *User-Contributed Library* comprising utilities and macros created by internal and user contributed sources to help you customize your installation to meet your specific needs. Each contribution has a README.TXT file viewed using any ASCII text editor.

Installation procedures

Use the following procedure to install or upgrade the ChemStation.

Note If you are installing the ChemStation revision A.09.xx on the same computer that contains your 3365 ChemStation, refer to the Appendix.

Installing a bundled package

If you purchased a bundled package from Agilent Technologies, your LAN card or GPIB interface board, instrument module, and ChemStation are already installed. Go directly to *Configuring the 6850*, *Configuring the 6890* or *5890 GC* in Chapter 6 to configure your new ChemStation. If you need to add a module, refer to Chapter 5, *Adding or Changing a ChemStation Module*.

Initial installation and upgrade

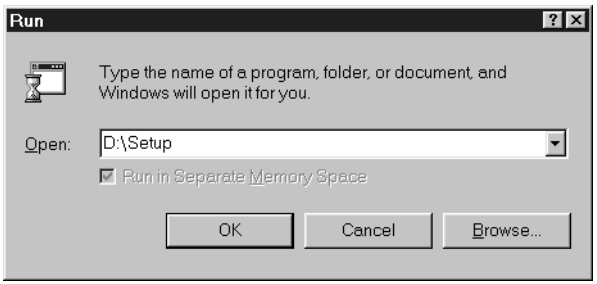
Before installing the ChemStation software, you will have to install one or more of the following boards in your computer:

- GPIB 82341 board or GPIB 82350 board—See Chapter 3, *Installing GPIB Interface Boards*
- 35900D board(s)—See the *Installing Your A/D ChemStation* manual
- LAN Communications Interface Board—see Chapter 2

Install the Windows NT or Windows 2000 operating system (and required service packs) on your PC. Refer to documentation delivered with your PC or with the operating system.

1. Start Windows.
2. Insert the ChemStation CD-ROM into the CD-ROM drive.
3. From the Start menu in the Task Bar, select `Start/Run`.

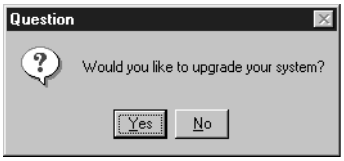
4. At the command line, type *drive*:\`Setup` (e.g., D:\Setup), then click `OK`. Select the drive where your CD-ROM resides.



5. **If you are performing an *initial installation***, skip to step 7.

   If you are *upgrading* existing ChemStation software, after a few seconds the Setup program will display the following prompt. Click `Yes` to have the Setup program update *the ChemStation software* on your PC.

   If you are *adding an additional module* or *changing an existing module*, after a few seconds the Setup program will display the following prompt. Click `No` and skip to step 7.



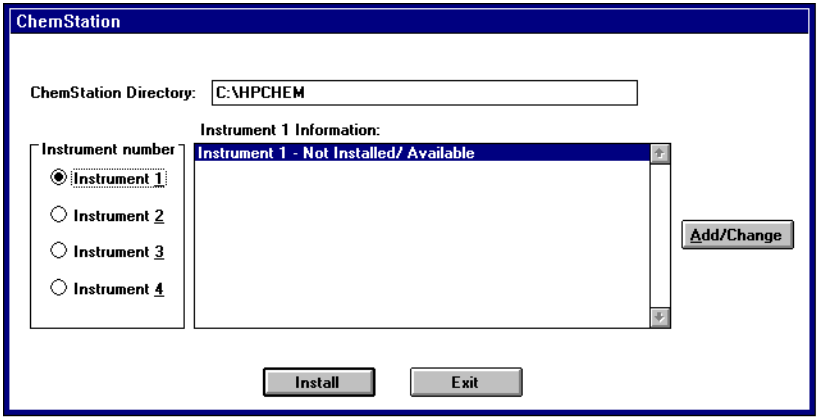
6. After your upgrade is complete, the Setup program prompts you to add any new instrument control modules.

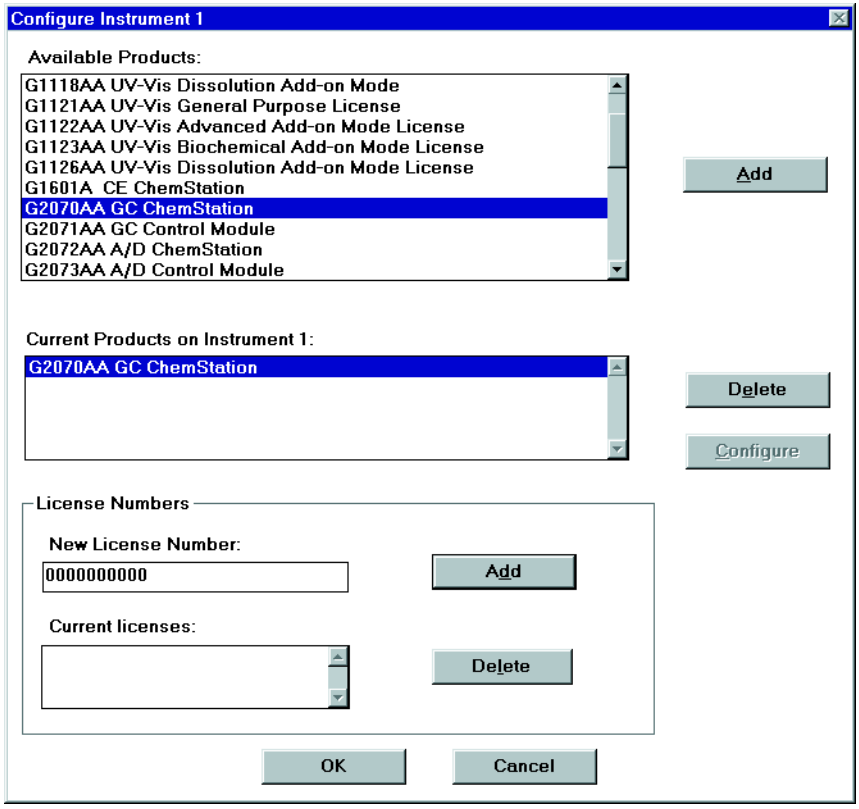
To complete the installation procedure and exit the Setup program
Click `No` and skip to step 11.

a. You may use the Configuration Editor at a later time to complete the instrument configuration.

b. *To add an additional module or change an existing module*
Click `Yes`.
After a few seconds, the Setup program will display a dialog box similar to the following.

7. To install your ChemStation on a different drive, change the default drive letter in the ChemStation directory field. It is recommended that you use \HPChem for the installation directory on this drive. Select an instrument number and click `Add/Change`.





- Select the instrument module to be installed from the list in the Available Products box and click `Add`.

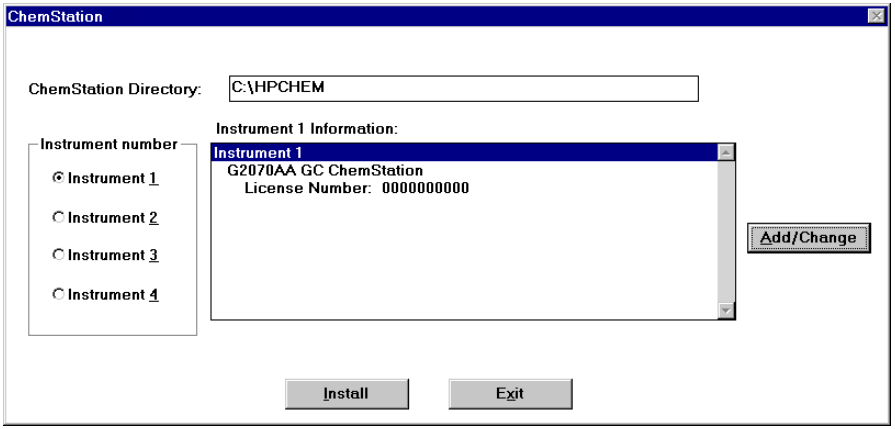
8. If you are *upgrading* your ChemStation, notice that the Setup program has identified your *existing* instruments and listed them as they were configured in your previous setup.

   - Enter the License Registration Number for the selected module in the New License Number field and click `Add`.

9. The applicable license numbers are printed on your Software Certificate and Registration Packet.

   - *To complete the addition of one instrument module* and *return to the previous screen*, click `OK`.

10. The following screen appears:



11. At this point you may choose:

    a. *To install another module* by repeating the procedure starting with step 7.

    - *To complete the setup process of the ChemStation* by clicking `Install`.

    b. **If you are performing an *initial installation***, the Setup program installs your ChemStation and instruments, displays an information dialog box reminding you to exit Windows and reboot your system before starting your ChemStation (click `OK`). The program will automatically send you to the Configuration Editor.

    See *Configuring the 6850, 6890, or 5890 GC* in Chapter 6 for details on how to configure your instruments, or

    To exit the Setup program Configuration Editor and return to Windows, select `File/Exit`.

    You may use the Configuration Editor at a later time to complete the instrument configuration.

If you are *upgrading your ChemStation*, the Setup program upgrades your ChemStation and instrument software, then prompts you to configure your instruments.

a. *To access the Configuration Editor and configure your ChemStation and instruments*, click `Yes`.

   See *Configuring the 6850, 6890 or 5890 GC* in Chapter 6, for details on how to configure your instruments, or

b. *To exit the Setup program and return to Windows*, click `No`.

   You may use the Configuration Editor at a later time to complete the instrument configuration.

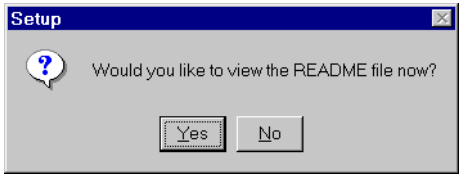
12. After you install the ChemStation software, you must exit Windows and reboot your system before the ChemStation installation and changes will go into effect.

Store your CD-ROM and license numbers in a safe place. These will be required if you have to reinstall your software or for future upgrades.

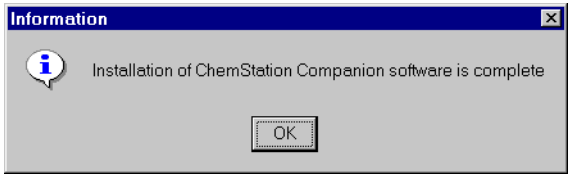
Installing the ChemStation Companion

After you have installed your ChemStation and rebooted your PC system, you are ready to install the ChemStation Companion.

1. Start Windows.
2. Insert the ChemStation CD-ROM into the CD-ROM drive.
3. From the START menu in the Task Bar, select `Start/Run`.
4. At the command line, type *drive*:`\Cmpanion\Setup.exe`, then click `OK`.



5. The ChemStation Companion gives you the option of viewing the README file at this time.
   a. *To view*, click `Yes`.
   b. *To continue*, click `No`.



6. Upon completion of ChemStation Companion installation, the following dialog box will appear:

   To exit the Setup program, click `OK`.

Installing or upgrading the ChemStation as a Client/Server

What is a Client/Server?

There are two ways of running the ChemStation. One is to have the ChemStation software reside on and be totally executed by the local personal computer. The alternative is to have the majority of the software installed on a computer (server) and only a small portion (mostly instrument related) on the local (or client) PC. This alternative is called a Client/Server.

Installing the software as a Client/Server gives you the advantage of installing and administering only one copy of the ChemStation software. Updating and GLP verification will be simplified. However, you will be dependent on the reliable operation of your network for communications between clients and server.

There are two parts to installing/upgrading the ChemStation as a Client/Server on a network:

- Installation/upgrade of the main ChemStation files on the network server
- Installation/upgrade and configuration of the ChemStation instrument files on the client PCs

Before you start the installation/upgrade, ensure that the network connections have been established and the server is available as a drive on the client PCs. Consult your local Agilent Office for information on supported network configurations and PC recommendations.

Server installation and upgrade

The procedure for installing/upgrading the ChemStation on a network server is very similar to a stand-alone PC. The only difference is that the ChemStation and additional software module instrument and license numbers are not assigned at this stage.

1. Start Windows and insert the ChemStation CD-ROM in a system accessible drive.
2. From the Start menu in the Task Bar, select `Start/Run`.
3. At the command line type *drive*:`\server\setup`, where *drive* is the CD-ROM drive (e.g., D:\server\setup), then click `OK`.

The Installation Location dialog box is displayed.

Notice that the installation default directory is `C:\HPCHEM`. The Setup program will automatically install the ChemStation software in the default directory unless you enter a different location for installation.

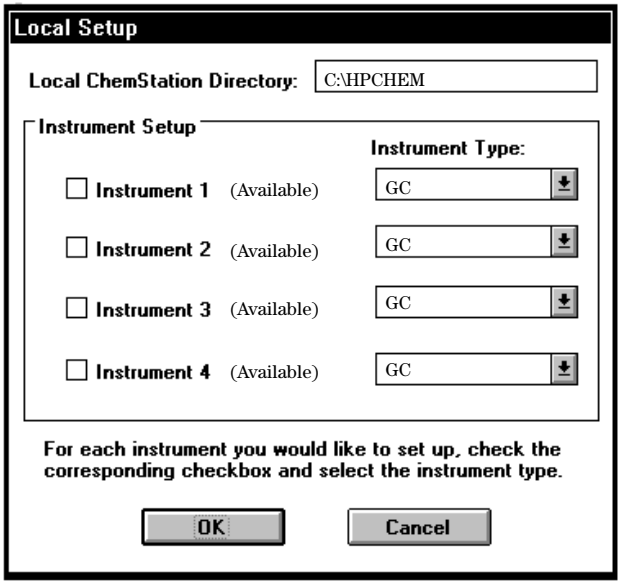
4. Enter the server drive as the location for the ChemStation installation. For example, `C:\HPCHEM`.
5. Continue to respond to the system prompts, as applicable.
6. Store your CD-ROM in a safe place. This will be required if you have to reinstall your software or for future upgrades.

Client installation and upgrade

When the ChemStation has been installed/upgraded on the server, you can set up the client software at each client PC.

1. From the Start menu in the Task Bar, select `Start/Run`.
2. At the command line, type `s:\hpchem\client\setup`, where *s*: is the designated drive mapped to the ChemStation files. Then click `OK`.

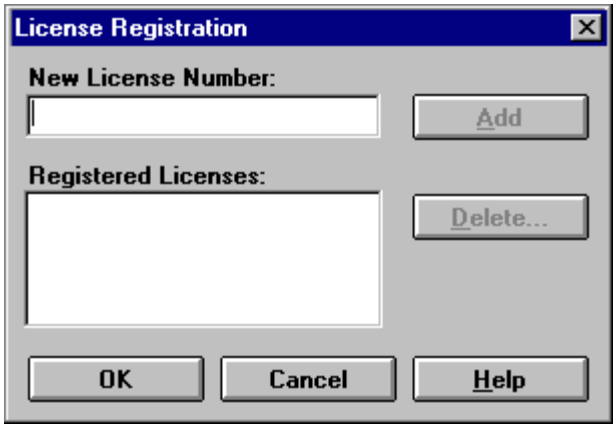
3. The Local Setup dialog box is displayed.



4. Enter the directory for the local (client) ChemStation (`C:\HPCHEM` is recommended).
5. If you are performing an *initial installation* or *adding a new module*, select the check box for each instrument that you want installed.
   - If you are *upgrading* your ChemStation, notice that the Setup program has identified your *existing* instruments and listed them as they were configured in your previous setup. If you do not want to add a new module, skip to step 8.
6. For each instrument to be set up, display the list of instrument types and select the desired instrument from the list.
7. Choose the `OK` button and the Setup program will install all of the necessary files from the server and set up the selected instruments on the client PC.

8. When prompted, type in the license number that accompanied each of your ChemStation software modules and click `Add`, then click `OK`.

   The license registration number is printed on the Software Certificate and Registration Packet that was shipped with your copy of the ChemStation software.



9. The Setup program installs or upgrades your ChemStation and instruments, then prompts you to configure your instruments.

   a. *To access the Configuration Editor and configure your instruments*, click `Yes`.

      See *Configuring the 6850 GC, 6890 GC, or 5890 GC* in Chapter 6 for details on how to configure your instrument.

   b. *To exit the Setup program and return to Windows*, Click `No`.

      You may use the Configuration Editor at a later time to complete the instrument configuration.

10. After you install and configure the ChemStation software, exit Windows and reboot your system before starting the ChemStation so the changes go into effect.

    Store your license numbers in a safe place. They will be required if you have to reinstall your software or for future upgrades.

Installing the Control Charts reports

In order to use this feature you must have Microsoft Excel 97 installed.

After you have installed your ChemStation and rebooted your PC system, you are ready to install the ChemStation Control Charts feature.

1. Start the ChemStation.
2. At the ChemStation command line, type `MACRO STARTCHT.MAC GO`, then press `Enter`.
3. A dialog box providing information about the installation appears.
4. Select `Help` from this dialog box for information about using Control Charts with your ChemStation.
5. Select `OK` to install Control Chart feature to your ChemStation. This process adds "Control Charts" to your reports menu.

5

Adding or Changing a ChemStation Module

Adding or changing modules

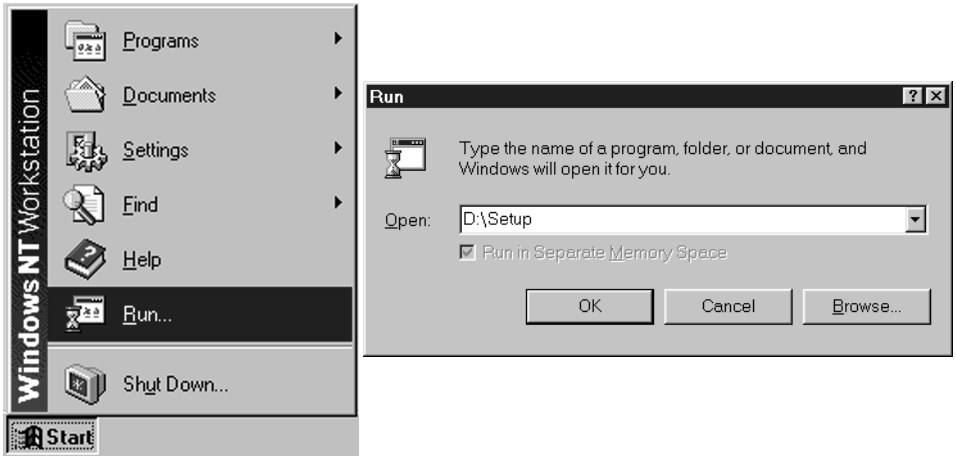
Once you have installed the ChemStation, you may install or change instrument control modules as described below.

Caution

Advanced power management features of the PC BIOS must be disabled for the ChemStation to perform instrument control and data acquisition. See your PC's operating manual.

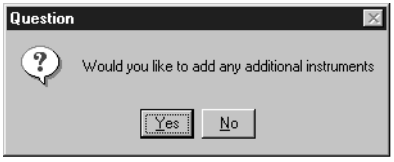
Energy Star compliant PC's must have the Energy Save features disabled to prevent loss of data during high data collection periods. I/O errors will result in the loss of data.

1. Start Windows.
2. Insert the ChemStation CD-ROM into the CD-ROM drive.
3. From the Start menu in the Task Bar, select `Start/Run`.
4. At the command line, type *drive*:`\Setup` (e.g., D:\Setup), then click `OK`.



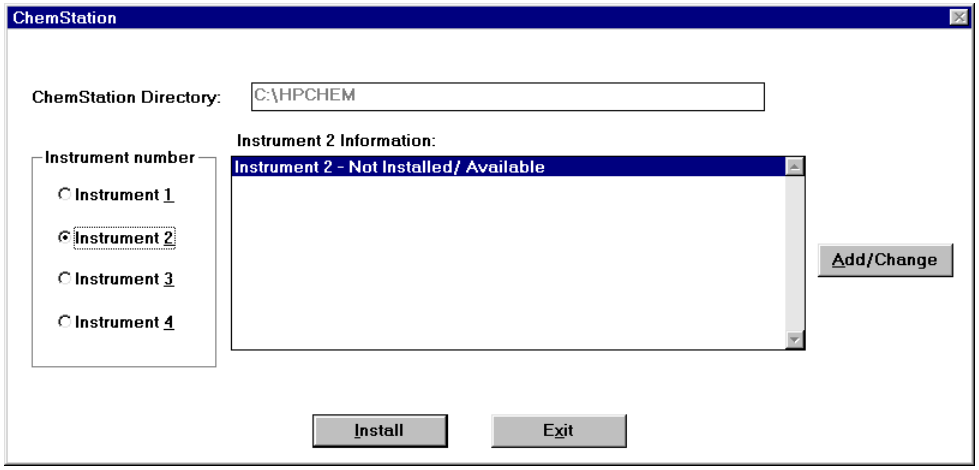
5. After a few seconds the Setup program will display the following prompt:
   a. *To update all existing ChemStation software* on your PC, click `Yes` and continue with step 6.
   b. *To add an additional module or change an existing module*, click `No` and continue with step 6.

6. After a few minutes, the Setup program prompts you to add any new instrument control modules:
   a. *To exit the Setup program*, click `No` and then select exit.
   b. *To add or change a module*, click `Yes`.

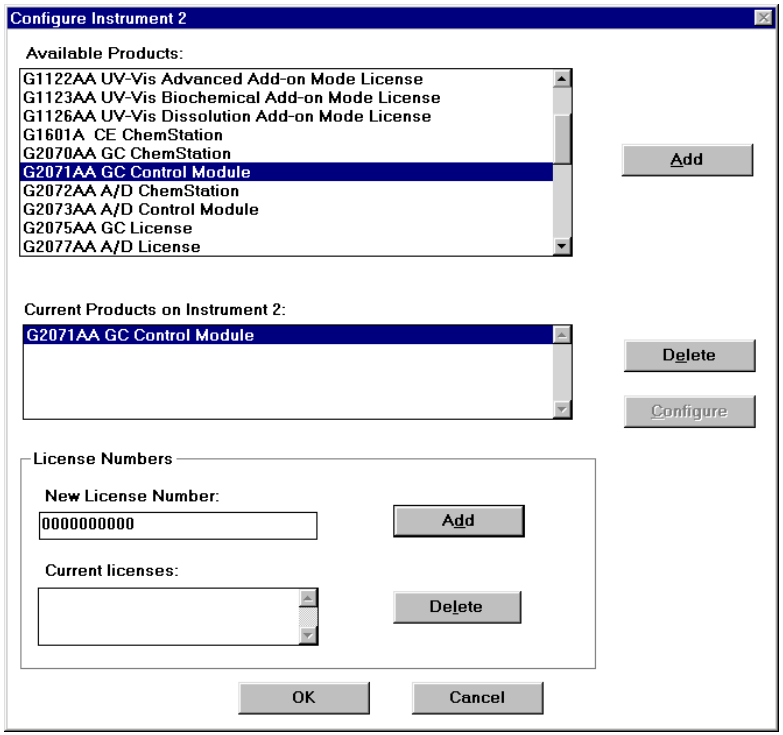


7. After a few seconds, the Setup program will display dialog boxes similar to the following.

Select an instrument number for the instrument module you want to add or change and click `Add/Change`.



8. The following dialog box will then be displayed.



a. *To add or change a module*, select the appropriate instrument module from the list of available products in the Configure Instruments dialog box. Click `Add`.

   Notice that the Setup program has identified your *existing* instruments and listed them as they were configured in your previous setup.

b. Enter the License Registration Number for the selected module in the New License Number field. Click `Add`.

   The license numbers are printed on your Software Certificate and Registration Packet.

9. *To select the instrument module and return to the previous screen*, click `OK`.

   a. *To install another module*, repeat step 6.

   b. *To complete the setup process of the ChemStation*, click `Install`.

10. The Setup program upgrades your ChemStation and instruments then prompts you to configure your instruments.

    a. *To access the Configuration Editor and configure your ChemStation and instruments*, click `Yes`.

       See *Configuring the 6850, 6890 or 5890 GC* for details on how to configure your instruments.

    b. *To exit the Setup program and return to Windows*, click `No`.

       You may use the Configuration Editor at a later time to complete the instrument configuration.

11. After you add the instrument module(s), shut down and restart the computer before using the ChemStation.

    Remove and store your CD-ROM and license numbers in a safe place. These will be required if you have to reinstall your software or for future upgrades.

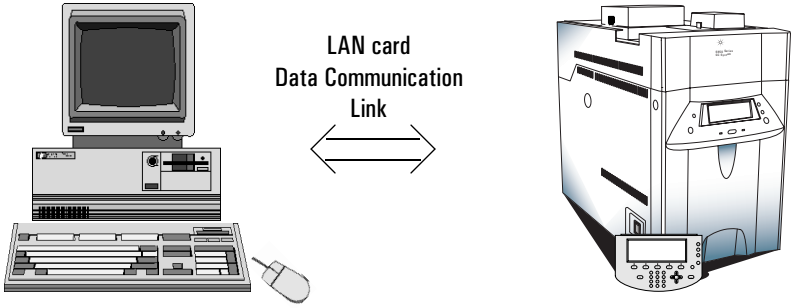
6

Configuring the Instruments

Putting the system together

This chapter describes how to complete the communications link between your PC and the 6850/6890/5890 GC using the Configuration Editor.

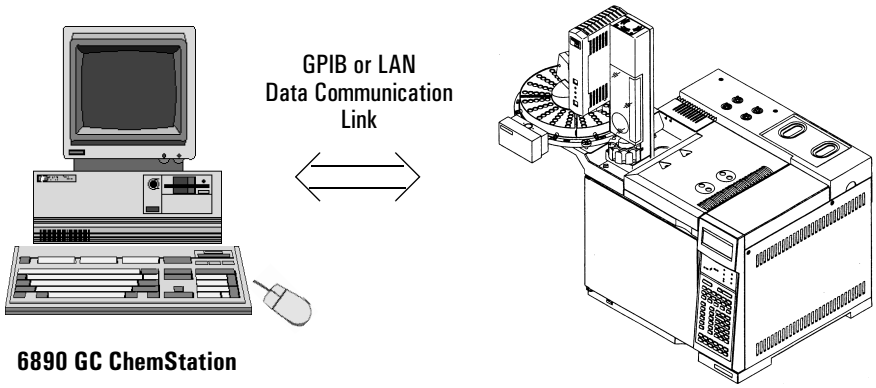
If you are going to control other instruments from your ChemStation, consult the instrument's installation guide for configuration details.



6850 GC ChemStation

6850 GC Chromatograph

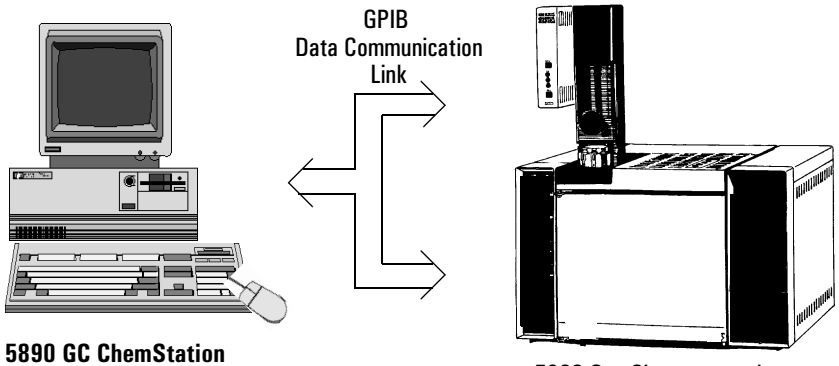
Automatic Liquid Sampler



6890 GC ChemStation

6890 Gas Chromatograph

Automatic Liquid Sampler



5890 GC ChemStation

5890 Gas Chromatograph

During the configuration process you will define the:

- GPIB board's select code or LAN board IP address
- Instrument type and options

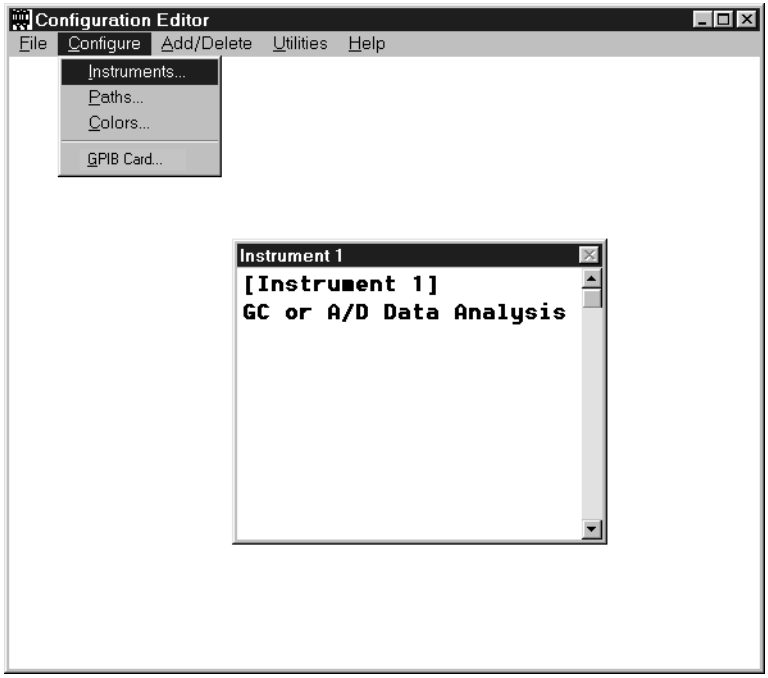
Starting the Configuration Editor

The 6850, 6890, and 5890 GC instruments must be configured as described below prior to their operation.

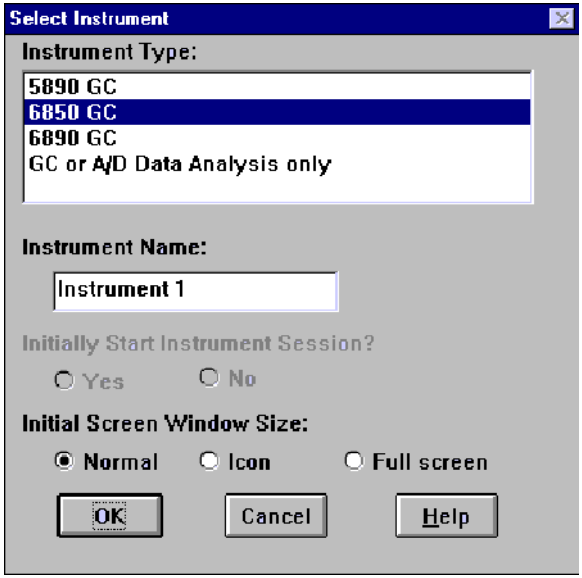
1. Turn on all equipment connected to the ChemStation.
2. Access the Configuration Editor Main Menu.
   a. From the Start menu in the Task Bar, select `Start/Programs/ChemStations/Configuration Editor`, or
   b. Click `Install` at the end of the module software Setup program (described in Chapters 4 and 5).

Configuring the 6850 GC

1. At the Configuration Editor's opening screen, highlight the title bar of the 6850 GC instrument and select `Configure/Instruments`.

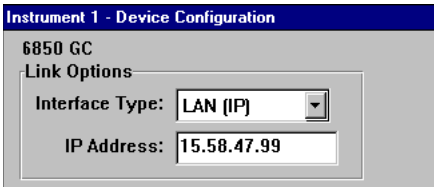


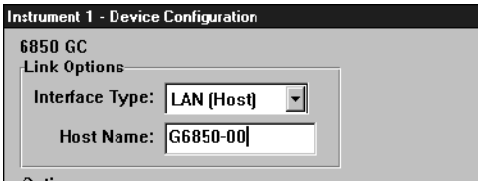
2. Select the *6850 GC* instrument.



3. Accept the instrument name, or type a new one in the *Instrument Name* field.
4. Select the Initial Screen Window Size.
   - `Normal` fills most of the screen
   - Minimized is an `Icon`
   - `Full screen` fills the entire screen.
5. To accept the setting and display the Device Configuration dialog box, click `OK`.

6. Configure the Instruments LAN interface card.

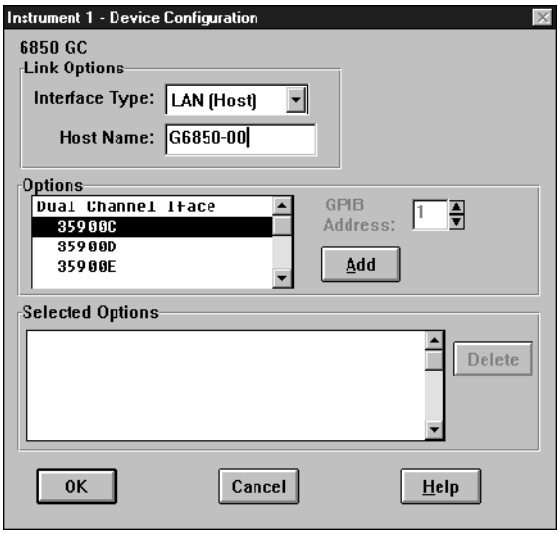




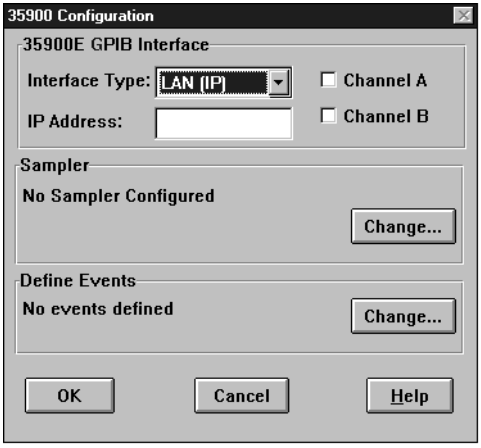
Define your link option:

- For a LAN IP address, select *LAN (IP)* as the Interface type and enter the IP address for the 6850 GC controlled by the ChemStation.
- For a Host Name, select *LAN (Host)* as the Interface type and enter the Host Name for the 6850 GC controlled by the ChemStation.

For assistance in assigning an IP number or Host Name to your 6850 GC, see the online help accompanying the CAG Bootp server.



7. To set up a 35900E dual channel interface as 1 or 2 GC detectors, select your interface board from the Options group box, and click `Add`.



From the 35900E Interface Device Configuration screen in the Link Options box, select an Interface Type and appropriate LAN parameters. See the online help of the CAG Bootp server for the IP address or see your Network Administrator for a Host Name.

35900 C/D Interface Devices—See Configuring the 6890 GC instructions for information about Configuring 35900 C/D GPIB devices.

8. Return to the Device Configuration dialog box by clicking `OK`.

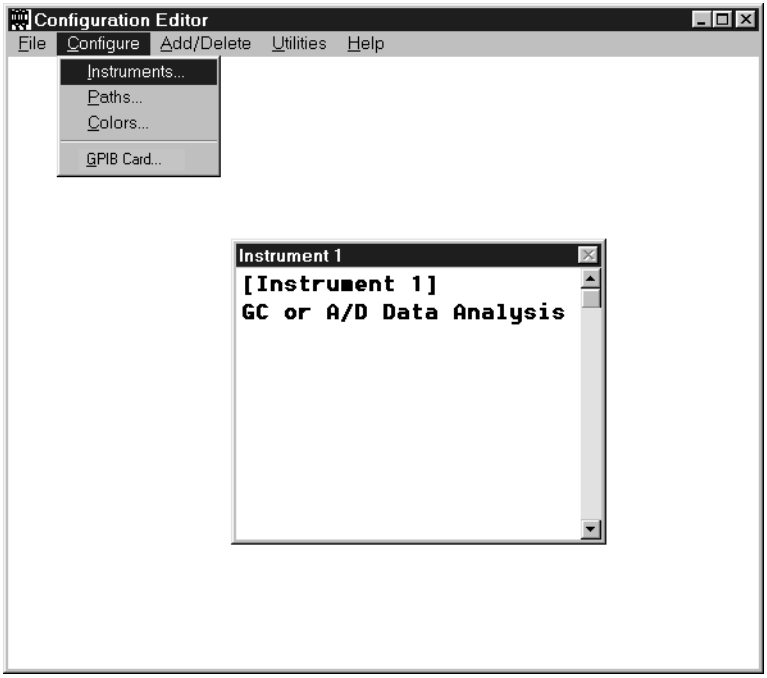
Saving the configuration

1. Verify the Configuration.
   a. Check that the information displayed in the Device Configuration dialog box is correct.
   b. *To change these selections*, highlight the appropriate option and click `Modify` or `Delete`, as necessary.
2. Exiting the Device Configuration dialog box:
   a. *To return to the Configuration Editor main menu*, click `OK`.
   b. *To configure another instrument*, repeat the Configuring process.
3. When you have finished configuring the instrument(s) and are ready to save the new instrument configuration(s):
   a. Select `File/Save`.

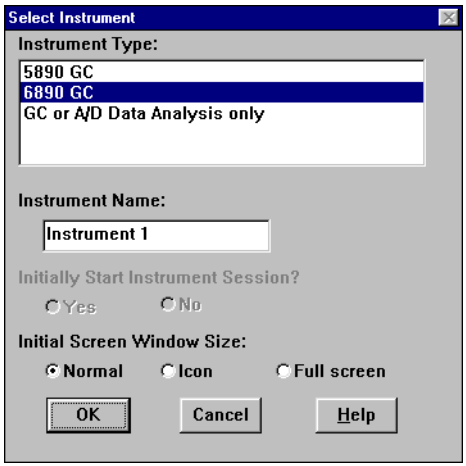
   b. Select `File/Exit` to return to Windows.
4. After you configure the ChemStation software, be sure to exit Windows and reboot your system before starting the ChemStation so the changes go into effect.

Configuring the 6890 GC

1. At the Configuration Editor's opening screen, highlight the title bar of the 6890 GC instrument and select `Configure/Instruments`.



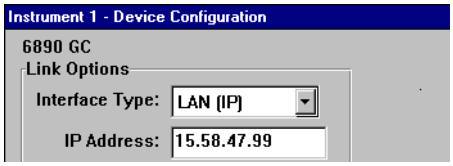
2. Select the *6890 GC* instrument.

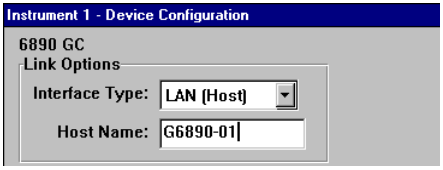


3. Accept the instrument name, or type a new one in the *Instrument Name* field.
4. Select the Initial Screen Window Size**.**
   - `Normal` fills most of the screen
   - Minimized is an `Icon`
   - `Full screen` fills the entire screen.
5. To accept the setting and display the Device Configuration dialog box, click `OK`.

6. Configure the Instruments interface card.

LAN-based instrument



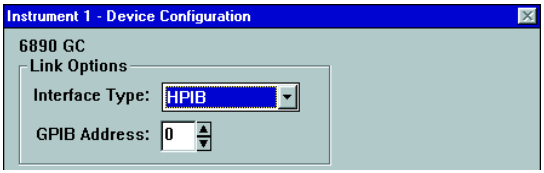


Define your link option:

- For a LAN IP address, select *LAN (IP)* as the Interface type, and enter the IP address for the 6890 GC controlled by the ChemStation.
- For a Host Name, select *LAN (Host)* as the Interface type and enter the Host Name for the 6890 GC controlled by the ChemStation.

For assistance in assigning an IP number or Host Name to your 6890 GC, see the online help accompanying the CAG Bootp server.

GPIB based instrument

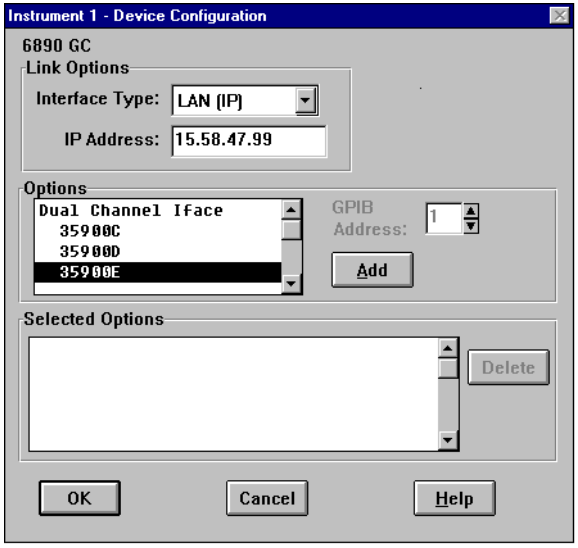


Select GPIB (or HPIB) as the interface type and then select a GPIB address.

Each instrument controlled by your ChemStation must have a unique GPIB address, (i.e., the GPIB card in the ChemStation PC cannot have the same address as the GPIB card in the 6890 GC). If you are unsure of how to obtain this address, refer to your 6890 GC instrument manual.

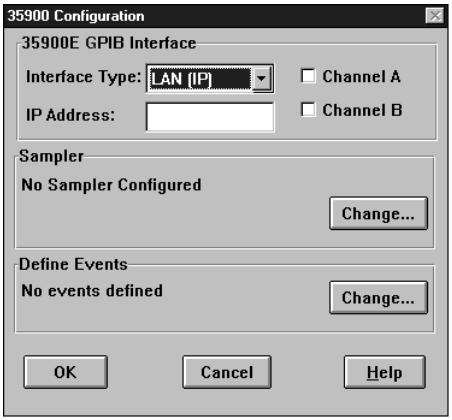
If you change the GPIB address shown here (in order to prevent duplication) complete this configuration, then turn the instrument off and reboot your system so the change goes into effect.

7. To set up a 35900C/D/E dual channel interface as 1 or 2 GC detectors, select your interface board from the Options group box, and click `Add`.



From the 35900E Interface Device Configuration screen in the Link Options box, select an Interface Type and a appropriate GPIB address or LAN parameters. See the online help of the CAG Bootp server for the IP address or see your Network Administrator for a Host Name.

From the 35900 C/D Interface Device Configuration screen in the Link Options box, select the GPIB Interface Type.



Select one or two detectors by clicking in the space provided next to Channel A and B.

Modifications can be made to the areas indicated by clicking on `Change`.

8. Return to the Device Configuration dialog box, by clicking `OK`.

Saving the configuration

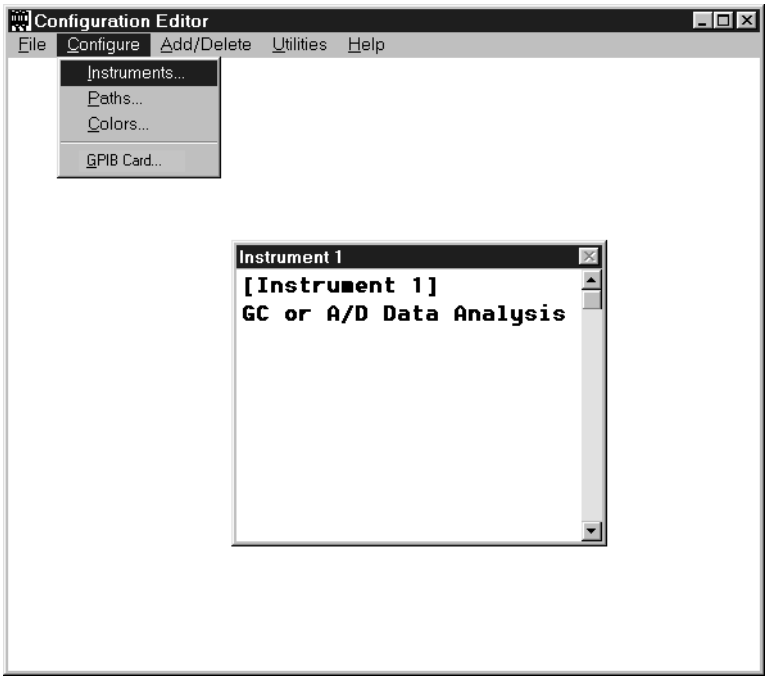
1. Verify the Configuration.
   a. Check that the information displayed in the Device Configuration dialog box is correct.
   b. *To change these selections*, highlight the appropriate option and click `Modify` or `Delete`, as necessary.
2. Exiting the Device Configuration dialog box:
   a. *To return to the Configuration Editor main menu*, click `OK`.
   b. *To configure another instrument*, repeat the Configuring process.
3. When you have finished configuring the instrument(s) and are ready to save the new instrument configuration(s):
   a. Select `File/Save`.

   b. Select `File/Exit` to return to Windows.
4. After you configure the ChemStation software, be sure to exit Windows and reboot your system before starting the ChemStation so the changes go into effect.

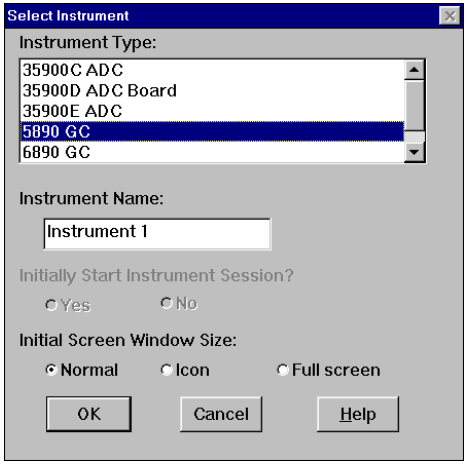
   Remember: If you changed the 6890 instrument GPIB address in Step 6, then turn the GC off and on again so that the change goes into effect.

Configuring the 5890 GC

1. At the Configuration Editor's opening screen, highlight the title bar of the 5890 GC instrument and select `Configure/Instruments`.

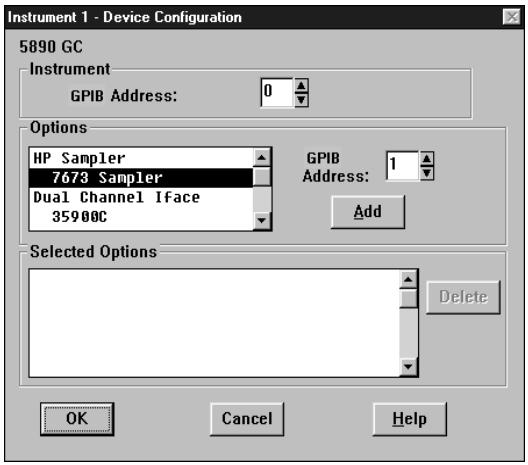


2. Select the *5890 GC* instrument.



3. Accept the instrument name, or type a new one in the *Instrument Name* field.
4. Select the Initial Screen Window Size.
   - *Normal* fills most of the screen
   - Minimized is an *Icon*
   - *Full screen* fills the entire screen.
5. To accept the setting and display the Device Configuration dialog box, click OK.

6. Select a GPIB address.

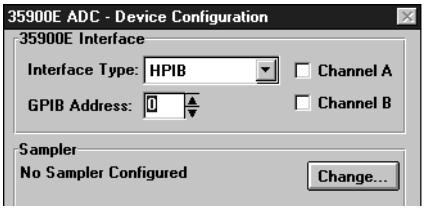


Each instrument controlled by your ChemStation must have a unique GPIB address, (i.e., the GPIB card in the ChemStation PC cannot have the same address as the GPIB card in the 5890 GC). If you are unsure of how to obtain this address, refer to your 5890 GC instrument manual.

If you change the GPIB address shown here (in order to prevent duplication) complete this configuration, then turn the instrument off and reboot your system so the change goes into effect.

7. *To configure your 5890 GC with a sampler*, select the sampler from the Options group box. Select a GPIB address for this sampler and click `Add`.

8. *For a Dual Channel Interface*, select the `35900C/D/E` from the Options group box, and click `Add`.



9. For the 35900E, select the *GPIB* (or HPIB) as the interface type.

10. Enter the GPIB address (or Select Code).
11. Select the appropriate channel(s) to be used.

    If you are unsure how to obtain the GPIB address or channel, refer to the technical documentation that accompanied your dual interface.
12. Select *Change* if you need to make any modifications to the entries.
13. Press `OK` to return to the Device Configuration dialog box.

Saving the configuration

1. Verify the Configuration.
   a. Check that the information displayed in the Device Configuration dialog box is correct.
   b. *To change these selections*, highlight the appropriate option and click `Modify` or `Delete`, as necessary.
2. Exiting the Device Configuration dialog box:
   a. *To return to the Configuration Editor main menu*, click `OK`.
   b. *To configure another instrument*, repeat the Configuring process.
3. When you have finished configuring the instrument(s) and are ready to save the new instrument configuration(s):
   a. Select `File/Save`.

   b. Select `File/Exit` to return to Windows.
4. After you configure the ChemStation software, be sure to exit Windows and reboot your system before starting the ChemStation so the changes go into effect.

   Remember: If you changed the 5890/6890 instrument GPIB address in step 6, turn the GC off and on again so that the change goes into effect.

7

Validating and Starting the ChemStation

ChemStation Installation Qualification

Overview

After installing the ChemStation system software on your computer and configuring the instruments, you can verify that the software is installed correctly.

Installation Qualification

The ChemStation Installation Qualification utility uses factory delivered installation reference files to verify the existence, correctness, and integrity of the required ChemStation system files (executable program files, binary register files, macro files, initialization files, help files, and customized report templates). This process is called Installation Qualification (IQ).

File integrity is verified by comparing the installed file with the original file recorded on Agilent Technologies' installation master. The file details of the installation master are delivered on so-called *reference files*. Modified or corrupted files are detected by the IQ utility.

The integrity of the reference files themselves is also tracked. If the Installation Qualification Utility is supplied with a reference file that was modified after its generation, this will be flagged in the report under the optional qualification section marked *invalid reference files*.

In addition, the IQ utility checks the version code of the ChemStation executable system files (*.EXE, *.DLL).

The appropriate ChemStation IQ icon is added to your ChemStation drop box.

ChemStation Installation Qualification utility execution

The calculations for all ChemStation system files may take several minutes. A dialog box indicates the name of the system file that is currently being analyzed.

ChemStation IQ utility results

The ChemStation Installation Qualification utility displays the qualification results on the screen and can optionally generate a report of its findings.

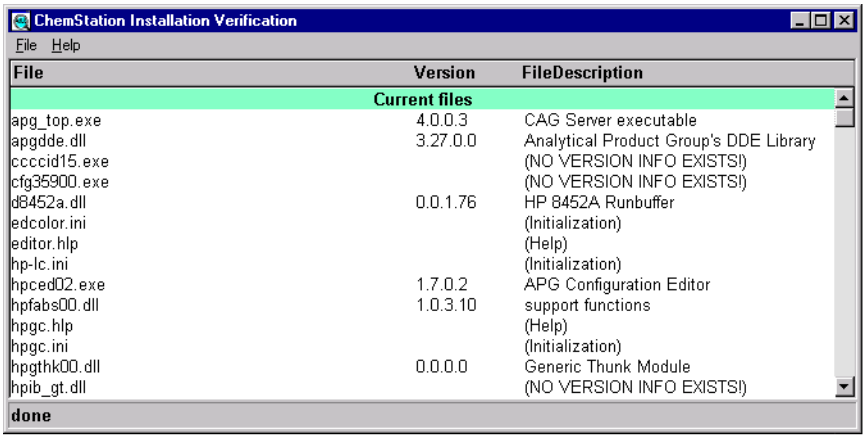
On a complete and consistent installation, the installation qualification runs without any error messages and no files are reported missing or modified.

If the qualification report lists files as missing or modified, the installation qualification utility displays the error message Installation Qualification completed with error(s) in the message line.

The ChemStation Installation Qualification reports the following file categories:

File categories reported by ChemStation Installation Qualifications

File category	Explanation	Required action
Identical files	Required files exist and passed the version and integrity check.	No action required.
Missing files	Files are missing that are required to run the ChemStation.	Reinstall the ChemStation.
Modified files	Files have been corrupted or modified.	Reinstall unless you have intentionally customized or updated ChemStation files, then generate a new installation qualification reference file for customized or updated ChemStation installations.
Invalid reference file	The original reference file is corrupt or has been modified after creation.	Reinstall the original reference file.



The printed report contains the license registration numbers used on the system that was checked. It also lists the reference files (name and date code) that were used for the installation qualification.
Example report:

ChemStation
Installation Verification

Verification result
Installation verification completed successfully.
All ChemStation files retrieved with the correct version.

Installed licenses
...

Root directory
c:\hpchem

Reference files
...

Invalid reference files
...

Ambiguous references
None

Current files
...

apg_top.exe	4.0.0.3	CAG Server exectuable

...

Generating an Installation Qualification reference file on a customized installation

The ChemStation has an open system that allows knowledgeable users to add their own customizing code. In regulated environments, such adaptations, additions, or modifications are generally documented. For your own tracking purposes, you can use the ChemStation Installation Qualification utility to generate a reference file listing for the customized system. You can use this reference file to qualify the completeness and integrity of the customized ChemStation and use it as a tracking document for future modifications. The program scans for files with the extensions *.dlc, *.dll, *.drv, *.enu, *.exe, *.hlp, *.ini, *.mac, *.mcx.

For example, in order to create the file contents list along with the corresponding file checksums for your existing installation:

- Check your install of GC before running this reference file.
- Under Windows, click `Run`

- Execute the Installation Qualification utility with the following command line options:

```
C:\HPCHEM\SYS\HPVERI00.EXE -f custom.ref
```

Add the resulting reference file to your project documentation. To automatically run an Installation Qualification test using the new reference file, set up an icon with the following command line specification in its properties:

```
C:\HPCHEM\SYS\HPVERI00.EXE -r custom.ref
```

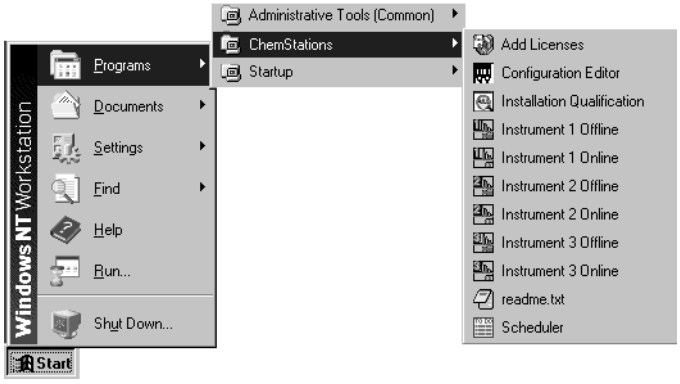
For a complete description of the command line syntax of the Installation Qualification utility, refer to its help file (`C:\HPCHEM\SYS\HPVERI.HLP`).

See the Installation Qualification help system for a complete description of the Installation Qualification utility's command line options. The Installation Qualification does not check method files, sequence files, or data files. These files are stored in Agilent Technologies' proprietary, unalterable binary formats.

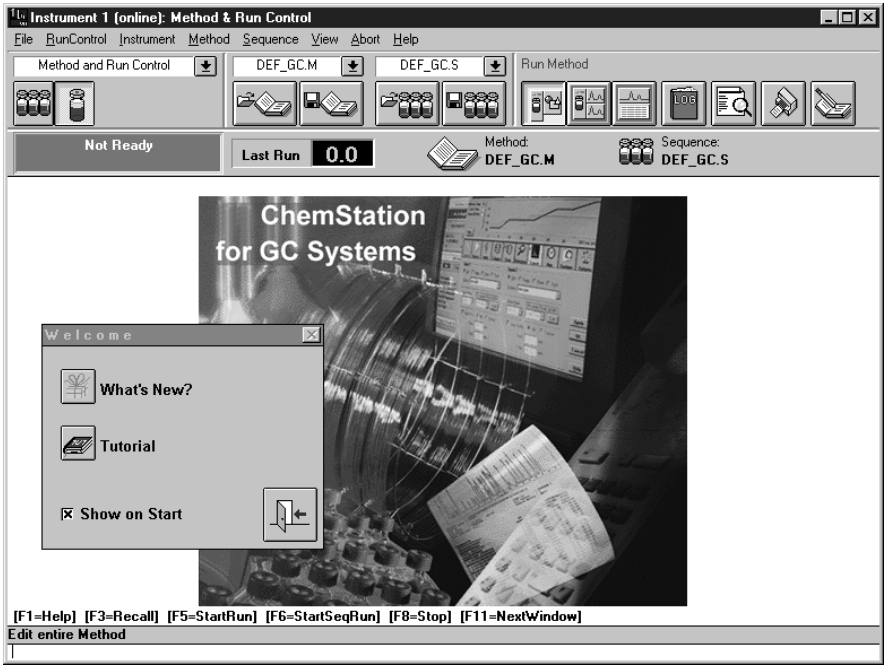
Starting the ChemStation

After installing and configuring the ChemStation software, and rebooting your system, you may start an online instrument session of the ChemStation.

1. From the Start menu in the Task Bar, select `Start/Programs/ChemStations/` and select the appropriate instrument.



You will see the opening screen similar to the one shown below.



- Look in *What's New* for an overview of new features with the A.09.xx revision of the ChemStation.
- Choose *Tutorial* to start a self-paced, hands-on introduction to the ChemStation.
- Deselect the *Show on Start* box if you do not want the Welcome dialog box to be displayed when the ChemStation starts up in the future.

2. Click the *door* in the Welcome box to enter the ChemStation.

Response Center Support Services resolves problems and maximizes performance

If you experience problems starting the ChemStation or want assistance in maximizing your performance, call the Agilent Technologies Analytical

Response Center. This service is available worldwide from centers based in Australia, Europe, and the USA.

The Agilent Technologies network of Analytical Response Centers (ARCs) provides access to support professionals who help you resolve operational difficulties and offer both assistance and advice on running Agilent analytical software. Traditionally, this support is given over the telephone but may also be extended to remote support via modem when you authorize it.

Your Agilent analytical software includes complimentary Response Center support for a period of 90 days after installation of the product. The duration of the support may be extended to one year or longer at very competitive rates. In addition, you can sign up for a material update service entitling you to automatically receive any software revision upgrades when they are released along with regular delivery of the Software Status Bulletins containing important information on known problems and available work-around solutions for your Agilent analytical software.

For more information on how to register for these services, please contact your local Analytical Support Representative.

Your local Analytical Support Representative will also provide information on available consulting, customizing, development and training services on Agilent analytical software products.

Agilent Technologies Response-Center support and update services are subject to your local country's prices, terms, and conditions ruling at the time you place your order.

Calling the Agilent Analytical Response Center

When you call the Agilent Analytical Response Center, please be at your computer and have the product documentation at hand.

We recommend that as much of the following information be readily available:

- Registration packet label with product number, revision code, and license registration number of your analytical software
- The exact wording of any error messages the system produced

- A list of the applications that were running when the problem occurred

Contact your local sales and service provider.

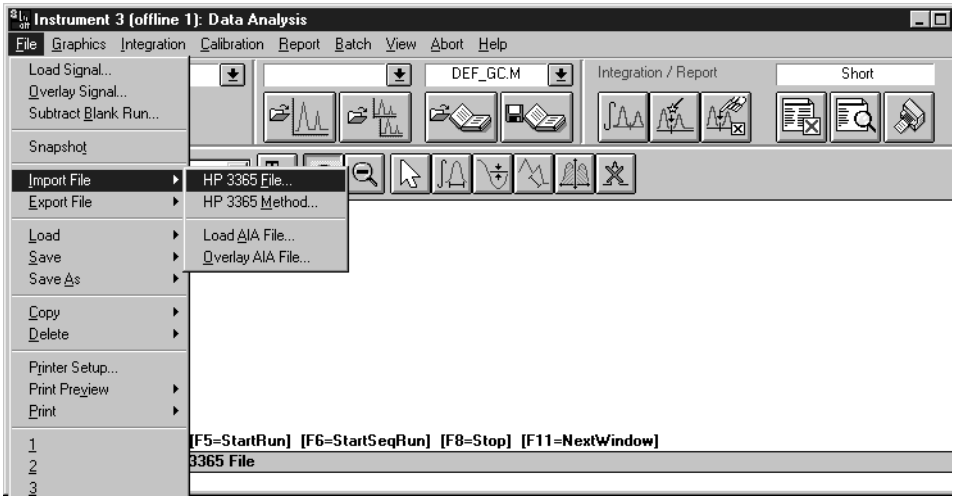
Appendix A

The 3365 ChemStation

Importing data and method files

After the ChemStation software is installed and configured, you may import the data and method files that were used in your 3365 ChemStation, as described below.

1. Choose the instrument for storing your data and method files, and open it from the Start menu in the Task Bar by selecting `Start/Programs/ChemStations/`, then select the appropriate instrument. After a short while, the opening screen will be displayed. The open screen defaults to the Method and Run Control View, in the short menu mode.
2. Select `View/Data Analysis`, to change to the Data Analysis View.
3. Select `View/Full Menu`, to display all menu options.
4. Choose `File/Import File`.



5. Select the applicable import option, then complete the prompts as requested. When you are finished, the import function will locate, convert, and place a copy of the converted file(s) in the directory you specify.

6. **For additional details** on this and many other new and enhanced capabilities of the ChemStation, read the readme.txt file after the installation is complete.

   To access the readme.txt file from the Start menu in the Task Bar, select `Programs/ChemStations/readme.txt`.

About This Edition

First edition, 3/02

This handbook is for A.09.xx revisions of the ChemStation software, where xx is a number from 00 through 99 and refers to minor revisions of the software that do not affect the technical accuracy of this book.

This handbook supersedes Part Numbers G2070-91005, G2070-91006, and G2070-91007.

The handbook printing date and part number indicate the current edition. The printing date changes when a new edition is printed.

Agilent Technologies

In This Book

Use this handbook when you install the ChemStation for the first time or when you make changes to an installed system. This handbook describes how to install the initial software, how to add further instrument modules, how to configure your analytical system, and how to verify that the installation and configuration are complete and operational.

Printed in USA.

G2070-91009