42 Aero Camino
Goleta, Ca 93117
Ph (805)685-0066
Fax (805)685-0067
www.biopac.com
info@biopac.com

BIOPAC Systems, Inc.

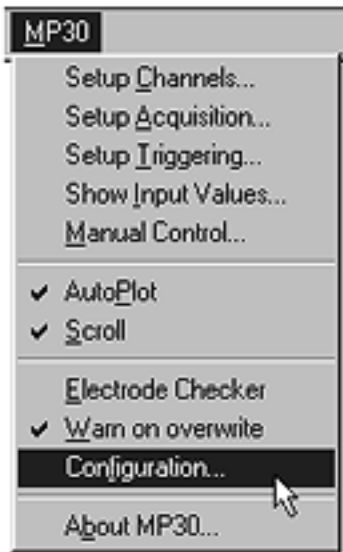# Upgrading from BSL Pro 2.xx to BSL Pro 3.0

This upgrade procedure assumes you already have a BIOPAC ISA100 card installed in your computer that has been successfully running the MP30 acquisition unit.
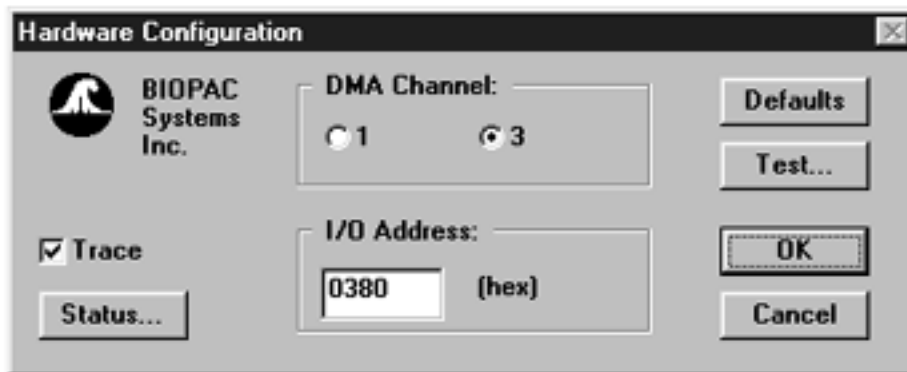
You will need to:

    a. Determine the I/O address of your currently installed ISA100 card.
    b. Insert the Installation disk and run the Installation Wizard.
    c. Change the I/O address software setting using Windows Device Manager.

UPGRADE installation

1. **Read this entire section** so you know what to expect.
   Don't go charging off without reading the quick review of the steps <u>before</u> you begin installation.
2. Turn your computer **ON** and start Windows.
   Your computer must be running Microsoft Windows 95.

- It is strongly recommended that you quit all Windows programs before installing the BSL *PRO* software.

3. **Before** you insert the installation disk:
       a. Activate your current **version (2.xx)** of the Biopac Student Lab *PRO*.
       b. Click on the **MP30** menu.
       c. Scroll to select **Configuration**

MP30

Setup Channels...
Setup Acquisition...
Setup Triggering...
Show Input Values...
Manual Control...

✔ AutoPlot
✔ Scroll

Electrode Checker
✔ Warn on overwrite
Configuration...

About MP30...

4. This will generate the "Hardware Configuration" dialog.

Hardware Configuration

BIOPAC
Systems
Inc.

DMA Channel:
○ 1   ● 3

Defaults

Test...

☑ Trace

Status...

I/O Address:
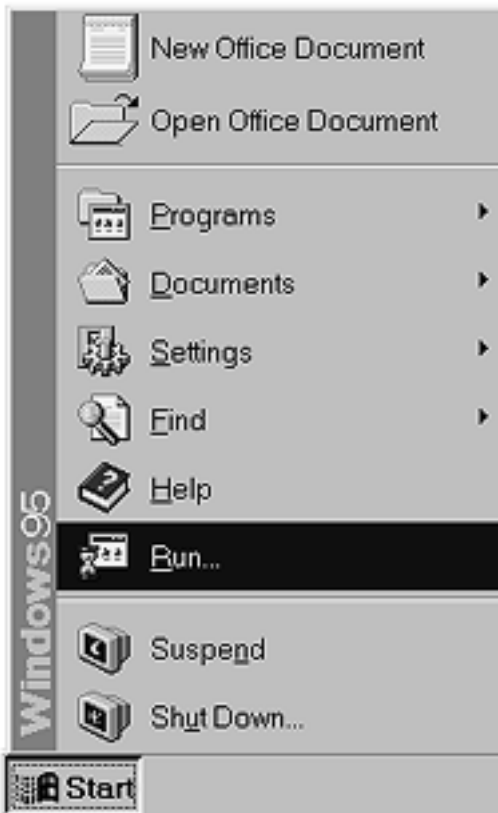0380   (hex)

OK

Cancel

The I/O address in the example is "0380" which is the default setting - your address may be different. You do not need to note the DMA channel.

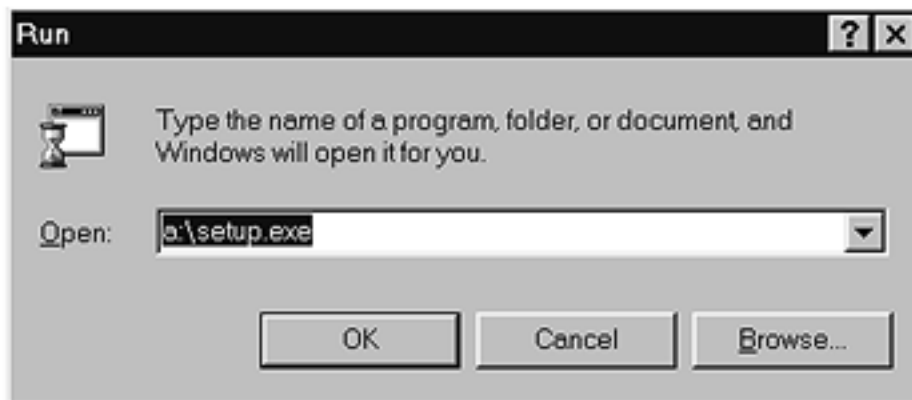Locate your I/O address and note it here:

_____

IMPORTANT!

Write the I/O address setting for the ISA100A here for future reference:

_____

5. **Quit** the Biopac Student Lab *PRO* V2.xx program and return to your desktop.
6. Insert the Biopac Student Lab *PRO* V3.0 Installation diskette.
7. Click on the **Start** menu and scroll to select the **Run** function.

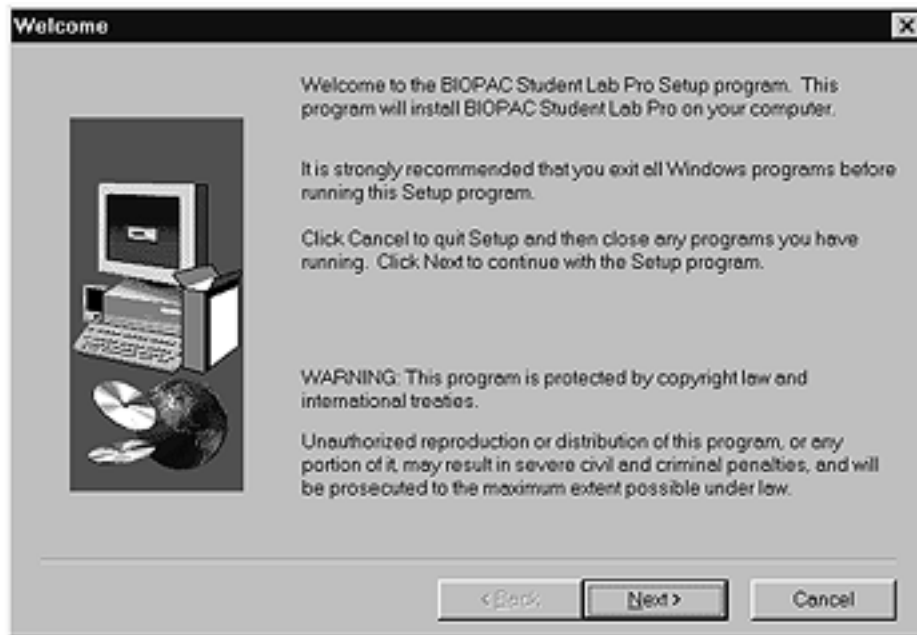8. This will generate a **Run** dialog. Type "**A:\SETUP.EXE**" (without the quotes) and click **OK**.

9. This will load the setup program. An "Installation Wizard" program will guide you through the installation process and prompt you with dialog boxes as required. Proceed with installation as prompted in the dialog boxes and accept the defaults except as noted in these instructions.

Not all the dialog boxes are shown here. Pay particular attention to the dialogs mentioned.

- This is the first screen you'll see when the Installation Wizard has been properly activated.

Click on the **Next** button to install the Biopac Student Lab *PRO* software.

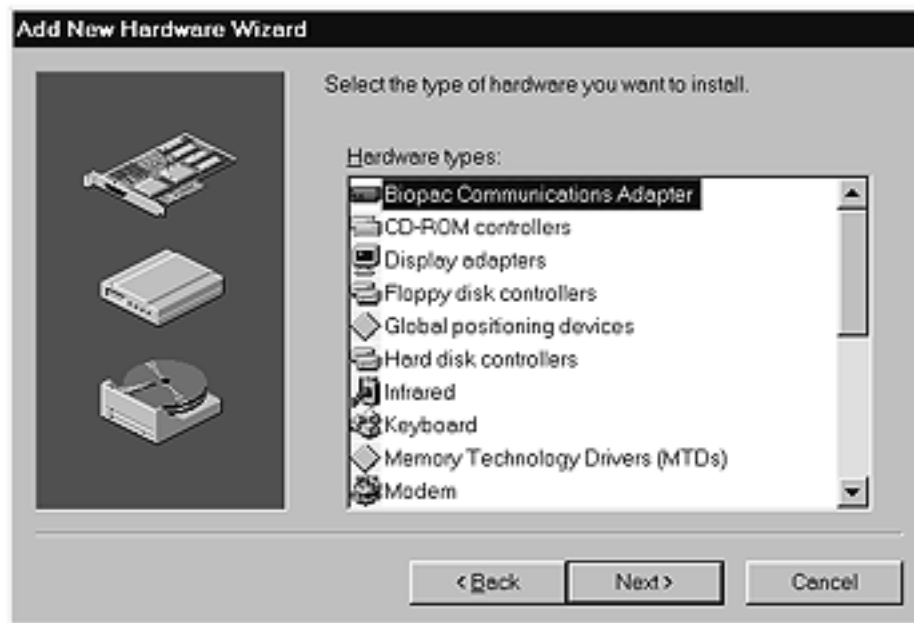Clicking **Cancel** will terminate the installation process and exit Setup.

10. Do not have Windows search for your new hardware. The Wizard program defaults to "Yes" but you should click in the circle next to "**No**" so a dot appears and then click **Next**.

11. The type of hardware you want to install is the **Biopac Communications Adapter**. Select "Biopac Communications Adapter" and click **Next**.

Add New Hardware Wizard

Select the type of hardware you want to install.

Hardware types:

- Biopac Communications Adapter
- CD-ROM controllers
- Display adapters
- Floppy disk controllers
- Global positioning devices
- Hard disk controllers
- Infrared
- Keyboard
- Memory Technology Drivers (MTDs)
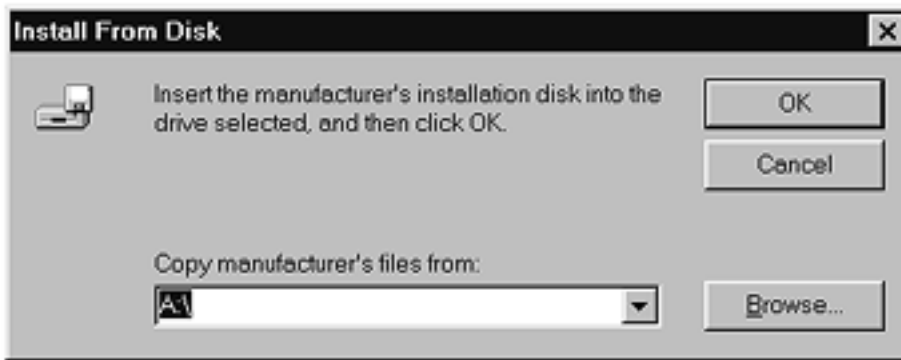- Modem

[< Back] [Next >] [Cancel]

12. The following sequence identifies the manufacturer and model of your hardware. Your screen may not have any models listed, or may not include the BIOPAC ISA100 Card.
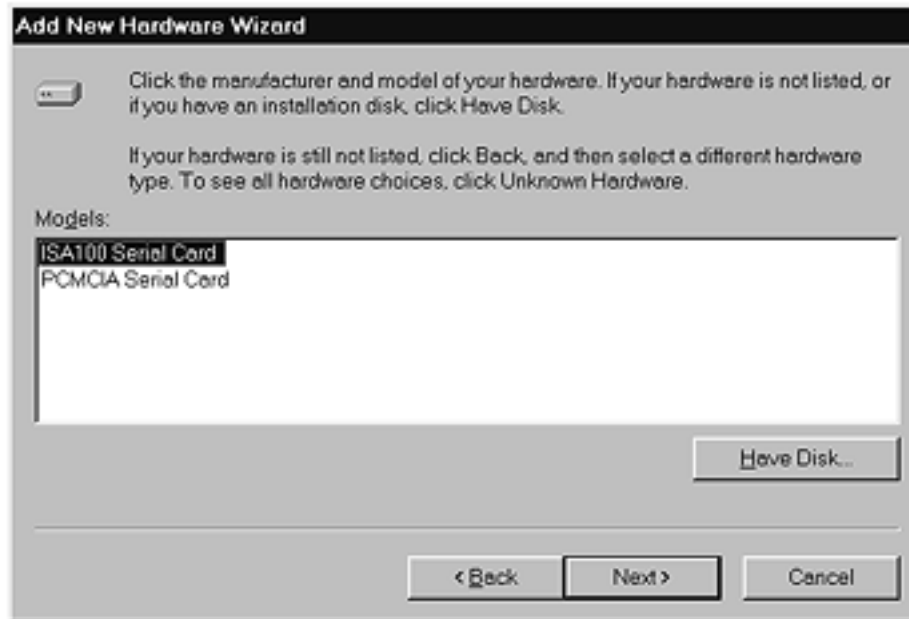
   Click the **Have Disk** button.

Add New Hardware Wizard

Click the manufacturer and model of your hardware. If your hardware is not listed, or if you have an installation disk, click Have Disk.

If your hardware is still not listed, click Back, and then select a different hardware type. To see all hardware choices, click Unknown Hardware.

Models:

- BIOPAC ISA100 Serial Card
- BIOPAC PCMCIA Serial Card
- ISA100 Serial Card
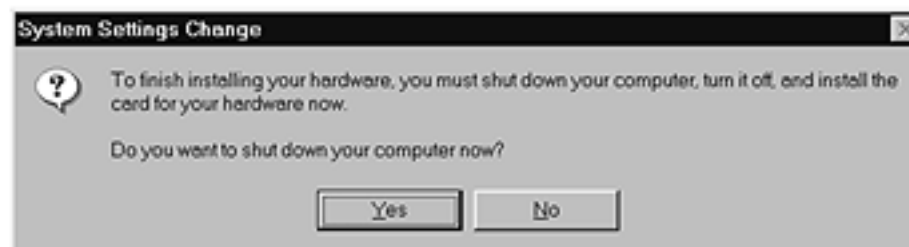- PCMCIA Serial Card

[Have Disk...]

[< Back] [Next >] [Cancel]

13. Your **Installation Disk** should still be in the drive. If necessary, use Browse… to redirect the Wizard to the Installation Disk. Then click **OK**.

Install From Disk

Insert the manufacturer's installation disk into the drive selected, and then click OK.

OK

Cancel

Copy manufacturer's files from:

A:\

Browse...

14. Select ISA100 Serial Card and click Next.

Add New Hardware Wizard

Click the manufacturer and model of your hardware. If your hardware is not listed, or if you have an installation disk, click Have Disk.

If your hardware is still not listed, click Back, and then select a different hardware type. To see all hardware choices, click Unknown Hardware.

Models:

ISA100 Serial Card
PCMCIA Serial Card

Have Disk...

< Back   Next >   Cancel

15. Do **NOT** shut down your computer at this prompt. Click **No** and finish the Wizard prompts.

System Settings Change

To finish installing your hardware, you must shut down your computer, turn it off, and install the card for your hardware now.

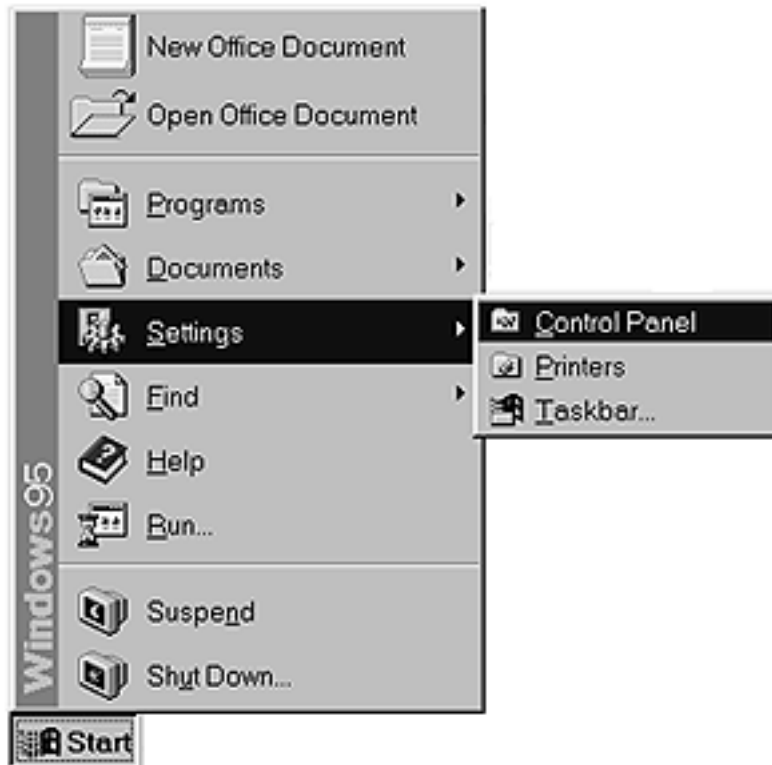Do you want to shut down your computer now?

Yes   No

16. The Wizard will locate an available address and generate a schematic of the proper DIP switch settings for your ISA card. Ignore this schematic and click **Finish**.

Do NOT restart your computer at this prompt. You need to use Device Manager to establish the proper I/O address for your ISA100A before restarting. Select the **No** option and click on **Finish**.

17. **Eject** the BSL *PRO* Installation disk.
18. Click on the Windows **Start** menu, scroll to select **Settings**, and then drag to select **Control Panel**.
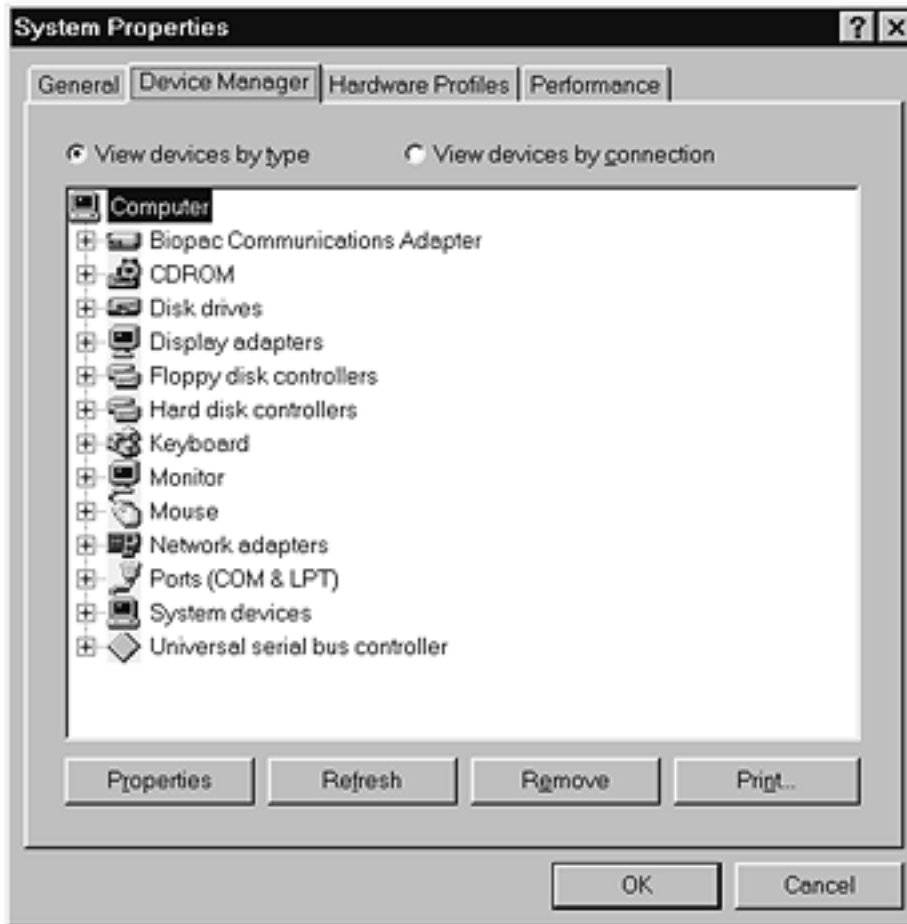
19. Double-click on the **System** icon in the "Control Panel" folder.
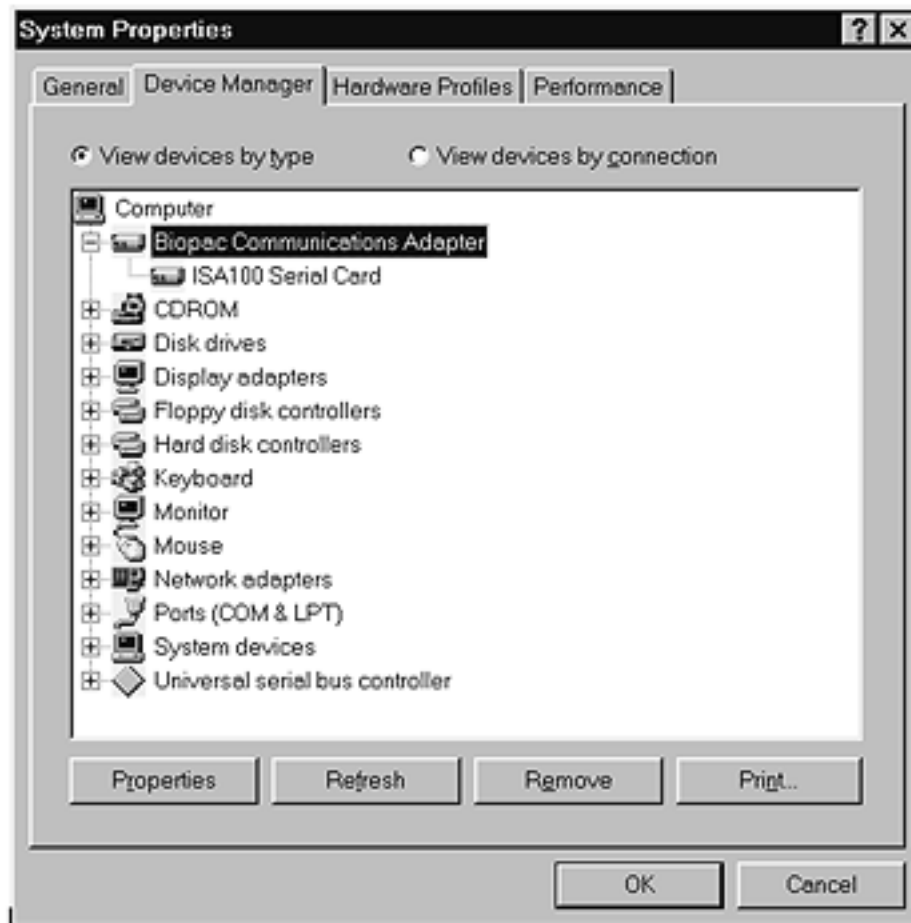

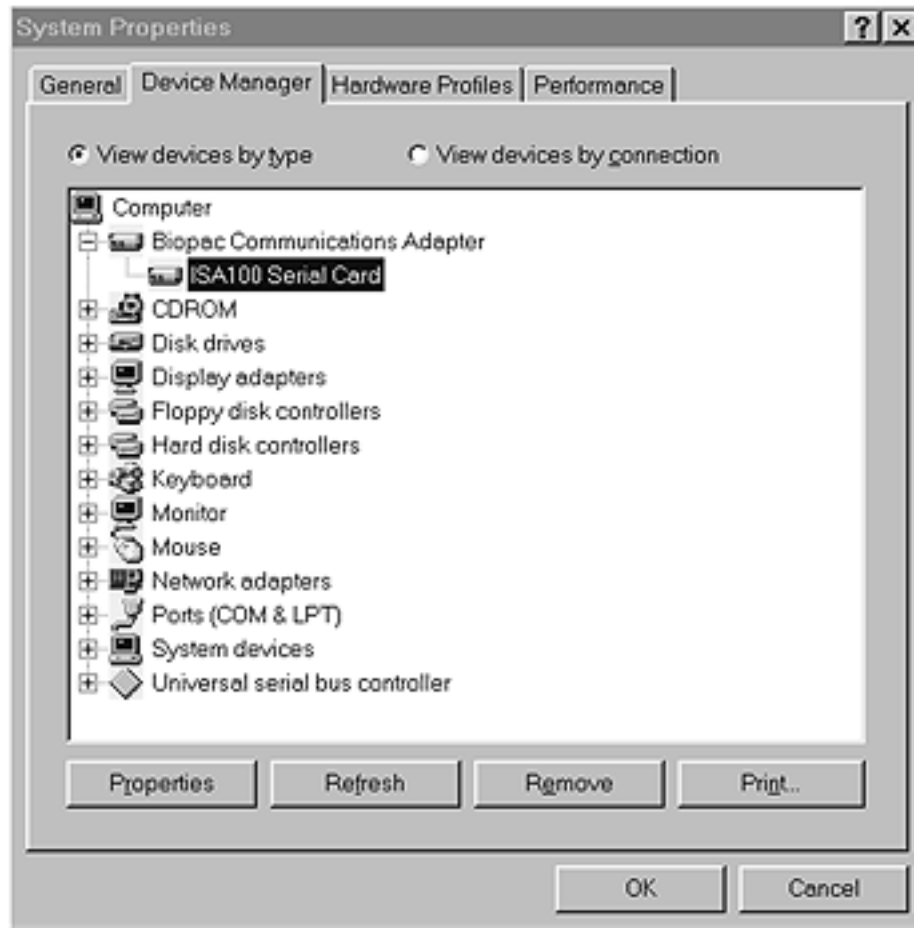20. This will generate the **System Properties** window.

Click on the **Device Manager** tab to bring that screen to the front.

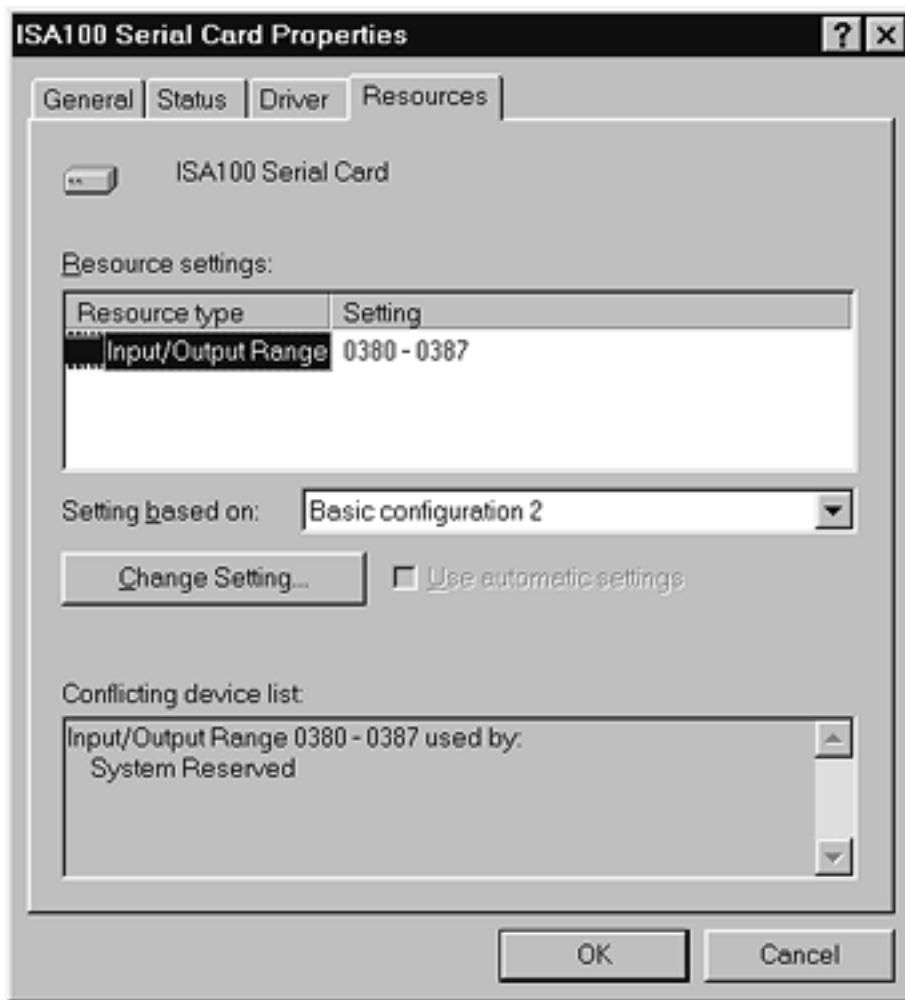21. Double-click on the **Biopac Communications Adapter** option to select it.

22. Double-click on the **ISA100 Serial Card** option to select it.

23. This will generate an "ISA100 Serial Card Properties" dialog box.

Click on the **Resources** tab to bring that screen to the front.

Then click on the **Change Setting** button (mid-screen).

ISA100 Serial Card Properties

General | Status | Driver | Resources

ISA100 Serial Card

Resource settings:

Resource type	Setting
Input/Output Range	0380 - 0387

Setting based on: Basic configuration 2

Change Setting... ☐ Use automatic settings

Conflicting device list:

Input/Output Range 0380 - 0387 used by:
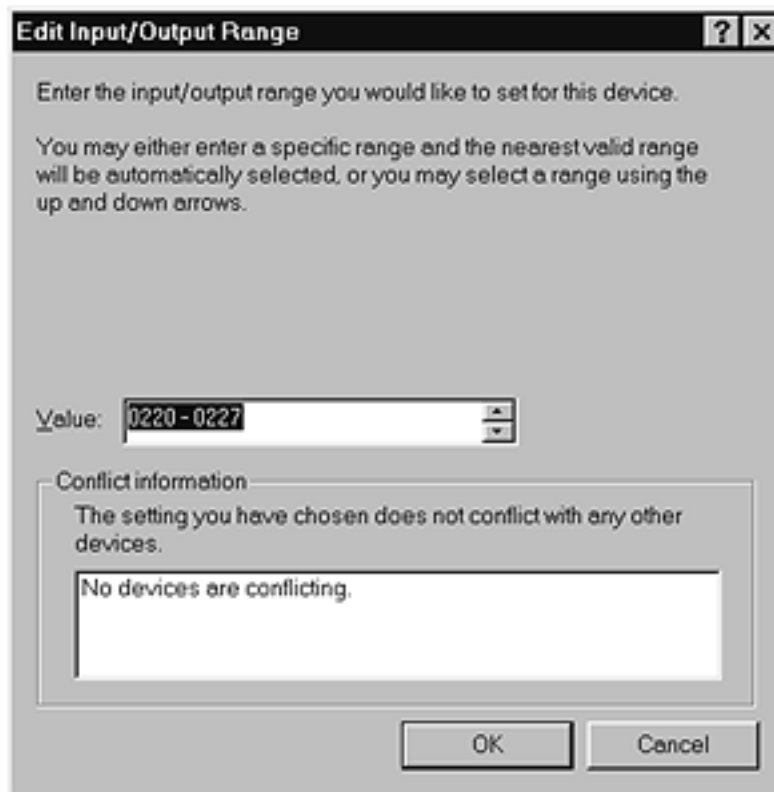   System Reserved

OK   Cancel

24. This will generate an "Edit Input/Output" range dialog.

Locate the **Value** box (mid-screen) and use the scroll arrows to locate the address for your ISA100A card.

25. Locate the I/O address you noted in Step 4 before you began the installation program.
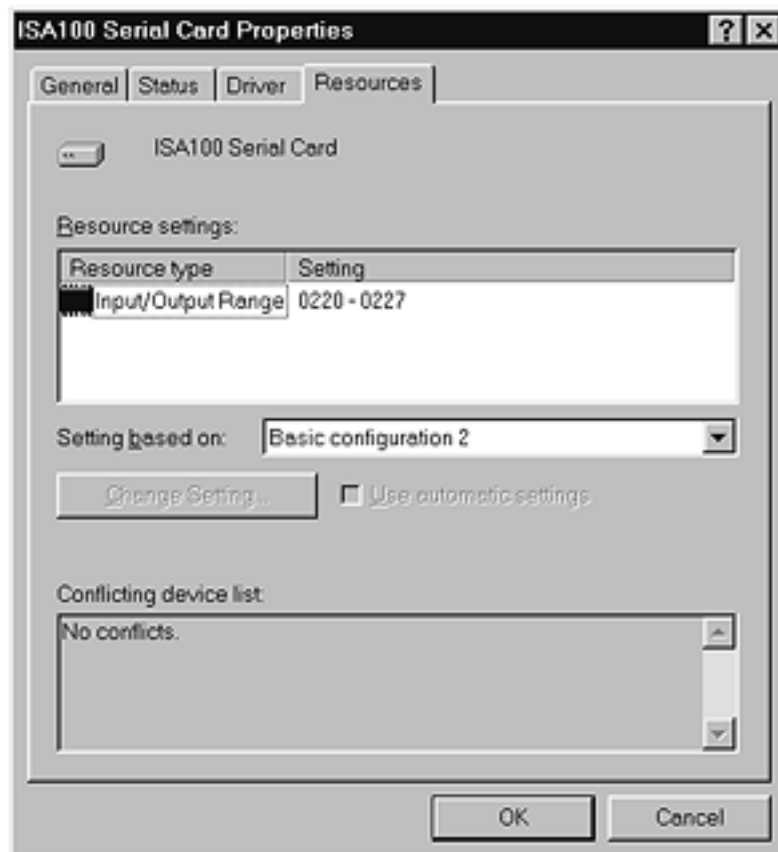
Edit Input/Output Range

Enter the input/output range you would like to set for this device.

You may either enter a specific range and the nearest valid range will be automatically selected, or you may select a range using the up and down arrows.

Value: 0380 - 0387

Conflict information

The setting you have chosen conflicts with the following device(s):

System Reserved

OK   Cancel

26. Review the "Conflict information" section (bottom of screen) to confirm that there is no conflict with your ISA100A address and click **OK**.

Edit Input/Output Range

Enter the input/output range you would like to set for this device.

You may either enter a specific range and the nearest valid range will be automatically selected, or you may select a range using the up and down arrows.

Value: 0220 - 0227

Conflict information

The setting you have chosen does not conflict with any other devices.

No devices are conflicting.

OK   Cancel

>>> IMPORTANT NOTE <<<

If your address does show a conflict, you may be using the ISA100 card for other or older BIOPAC programs or hardware. Complete this procedure and restart your computer. If the BSL *PRO* will not run, see the "Trouble Shooting" section.

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27. Review the **Resource settings** box (mid-screen) to confirm that the assigned address matches the I/O address you intended to assign and click **OK**.

28. Click **Yes** to shut down your computer. (You do not have to change the settings on your ISA card.)

29. **Restart** your computer. Turn your computer power on again.

30. Run the **Biopac Student Lab *PRO* V3.xx** program.

See "Working with the BSL *PRO* Software" in your Biopac Student Lab *PRO* Manual for detailed information about starting the software and warnings.

[Return To Application Note Menu](#)