

CalComp Printer/Plotter Help System:

The CalComp Printer Driver is designed allow printing/plotting on all CalComp devices that support the 907/PCI Command Language.

The driver will search for a CDCL file to format your device to accept 907/PCI Commands. If a CDCL file does not exist it will create a CDCL file using the name CDCLINFO.INP. The driver will search for a CDCL file in the root directory of your "C" drive. The CDCL Header file does not support international settings of mm. The printer will always assume inches when sending the CDCL File to the device.

Please note that when defining a user defined size for paper, the assignment must be made in the Control Panel option and not while in an application. Applications may not correctly assign paper sizes if paper changes are made to user defined sizes while within an application. This includes custom paper size. When assigned in the control panel the custom paper sizes will also be setup and defined correctly.

1) Setup Dialog

2) Configuration Setup Dialog

3) Custom Paper Definition and Sizes

4) Pens and Colors

Overview

The WM_PAINT message

Custom Paper Definition and Sizes:

1) Width:

Select the width of the paper as defined in portrait mode. Maximum is 128 inches. For plotters or printers that handle stripping, you can set the width to be larger than the size specified by the media. This feature may not work on all devices and you should try a sample to verify it works on your device.

2) Height:

Select the height of the paper as defined in portrait mode. Maximum is 128 inches. For plotters or printers that handle stripping, you can set the heights to be larger than the size specified by the media. This feature may not work on all devices and you should try a sample to verify it works on your device.

3) Units:

This will change depending on the selection in the international settings in the Windows setup. See the Windows 3.X users manual for more information on this feature. The options are millimeters and inches.

4) OK Button:

Selecting this ACCEPTS ALL selections and returns you to the previous menu.

5) Cancel Button:

Selecting this CANCELS ALL selections and returns you to the previous menu.

Pens:

- 1) Pen:
Select each pen that you will use and configure it with color and width.
- 2) Color:
Select the color of the pen that is currently highlighted in the pen listbox.
In order for Keyboard Selection you must select a pen and then colors can be selected from the keyboard.
- 3) Pen Widths:
Select the Pen width of the currently selected pen in the pen list box.
To select a Pen Width you must first select a pen from the first column.
- 4) OK Button:
Selecting this accepts all selections and returns you to the previous menu.
- 5) Cancel Button:
Selecting this CANCELS ALL selections and returns you to the previous menu.
- 6) Summary Button:
Selecting this will show you all pens and the associated colors and pen widths

Setup Dialog:

This is the main dialog box for the user to select the following:

1) Select Printer:

This allows you to select the printer/plotter or emulation mode. The various printers and plotters are selectable keyboard or mouse. All utilize the CalComp 907/PCI language. As you select different devices, you will notice that some of the controls on the dialog boxes will become grayed. This means that the option is not available for the device you have selected. Also, the CalComp Windows driver utilizes the CDCL Header to send information to the devices capable of handling the option. You can tell if the device handles the CDCL header if the **Copies** control is enabled. After selecting a new device, select **OK** to ensure the proper CDCL Header file is generated.

2) Paper Size:

After Selecting a printer/plotter, the paper sizes supported are displayed in this list box. All ANSI, ISO, and ARCH sizes are displayed. The **Custom** entry in the list box provides you with custom length control for roll plotters. The maximum length you can plot in continuous roll is 128 inches. Double click on the **Custom** entry and the Size dialog box will be displayed.

3) OK Button:

Selecting this ACCEPTS ALL selections and returns you to the Printer Setup dialog box.

4) Cancel Button:

Selecting this CANCELS ALL selections and returns you to the previous menu.

5) Help Button:

Selecting this brings up this help system.

6) About Button:

Selecting this brings up the ABOUT dialog box to display driver information details.

7) Assign Pens Button:

Selecting this brings up the Assign Pens dialog box.

8) Configure Button:

Selecting this brings up the Configuration Setup dialog box.

9) Copies:

Select the number of copies you wish to make. The device must support CDCL commands to implement this option. You are allowed up to 99

copies through the driver. If you have a device that supports CDCL, take advantage of this function. It is typically faster than generating copies from the application. Some devices that support CDCL do not support multiple copies through the CDCL command. See your reference manual to determine the capabilities of your device.

10) Orientation:

Select the Orientation you want the plot to print. This is consistent with all Windows applications and printer drivers. Landscape mode is parallel with the X axis for plotters.

11) Mirror:

Selecting mirror allows plotting to occur mirrored. Use for this is to allow printing on back sides of vellum and other similar applications.

Keyboard input

Configure Setup Dialog:

This is the Advanced Configuration Setup Dialog box. From this dialog box you have more control over the communications, resolutions, and time out information utilized by the driver. Most of this information is included in the CDCL header file for those devices that support the CDCL header option.

1) Beginning Print Data Sync Character:

Select this to be used as the start sync character for each record sent to the device. This character can not be the same as the End-Of-Buffer Code and must be in the range of 0 to 7F Hex. The program will give you an error if you try to make them the same and will prompt you to enter another value.

2) Number of Sync Characters:

The Number of Sync Characters to be sent at the start of each record. The value can either be one or two.

3) Enable/Disable Checksum:

Selecting this option allows the device to use checksum error checking. The default is no checksum. In general this is not needed since windows controls the communications and will always check for proper transmission of each block of data.

4) Device Resolution:

Select the device resolution in device steps per inch. Each printer and plotter supported by this driver has predefined resolutions available in this control. Changing the resolution may either increase or decrease the amount of data sent to the device in printing objects such as area fills and wide lines and other similar objects. Lower resolutions may decrease the data flow and higher resolutions will increase the data flow. The option is not available for fixed resolution devices and is grayed by the driver. Any other settings will not allow device driver scaling. Scaling may still be accomplished by using the application to perform the scaling.

5) Job Timeout:

Selecting this option has no effect until a Windows bug is fixed. Select printer/plotter timeout in the printer/plotter setup dialog box.

6) OK Button:

Selecting this accepts all selections and returns you to the previous menu.

7) Cancel Button:

Selecting this CANCELS ALL selections from the current dialog screen and returns you to the previous menu.

Header file

The header file `WINDOWS.H`, found in the Software Development Kit (SDK), must be included in every Windows application. In this header file the prototypes of all Windows functions, many data types, the messages, and other constants are defined.