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## Duplex Printing

Duplex (two-sided) printing is available as an option for the IBM 4039 Laserprinter.

The default selection is "None" for single-sided printing. If you want to print in duplex mode, you should determine how your finished document will be bound:

"Long-edge" binding setup in portrait orientation is used for conventional layouts in book binding. Long-edge in landscape orientation is often used in accounting and spreadsheet applications because pages can be flipped through as on a clipboard.

"Short-edge" binding setup in portrait orientation is often used for calendar-like books. Short-edge in landscape orientation is another variation of conventional book layouts.

**Binding** refers to the process of joining a stack of printed sheets with stitches (staples), three-hole, glue or some other means.

## **Fast Printing Direct to Port**

Fast Printing Direct to Port uses the "Fastbytes" enhanced parallel interface protocol which allows faster data transfer to the printer. To get the maximum benefit, this option should be checked and the printer's Parallel Protocol should be set to Fastbytes.

**Note:** This option is only available when Windows is in Enhanced (386) mode.

To set the printer's Parallel Protocol, using the front panel (from the **READY** screen):

- 1) select **MENUS**,
- 2) select **SETUP MENU**,
- 3) select **MORE** until **Parallel Protocol** is displayed,
- 4) select **Parallel Protocol**,
- 5) select **Fastbytes**,
- 6) press **READY**.

## **Print TrueType As Graphics**

If your document contains a lot of graphics but not a lot of repeated TrueType text, it is recommended that you use this feature. If your document does not contain a lot of different TrueType fonts, printing them as graphics requires less printer memory and may speed up printing time.

This option is also useful if you want to print graphics over text such that only the exposed portion of a character is displayed.

### **To print TrueType fonts as graphics**

- 1 In the printer setup dialog box, choose the Options button.
- 2 In the Options dialog box, select the Print TrueType As Graphics check box
- 3 Specify any other options you want.
- 4 Choose the OK button.

**NOTE:** For the **Print TrueType as Graphics** option to be available the **Graphics Resolution** must be set to **300 dots per inch**.

## **Dithering**

The Dithering setting affects the amount of detail in the graphics images. The overall appearance of graphics is affected by the combination of the Graphics Resolution, Dithering and Contrast Control settings.

Contrast Control

## **Contrast Control**

The Contrast Control setting determines the degree of difference between levels of gray. The overall appearance of graphics is affected by the combination of the Graphic Resolution, Dithering and Contrast Control settings.

### Dithering



## **Use Printer Patterns**

When "Use Printer Patterns" is selected the printer driver can use the printer's built in gray scale patterns. This is usually faster than having the printer driver send the patterns to the printer as graphic images. Using the printer's built in patterns does reduce the selection of gray scale patterns available to the printer driver. Also, with some applications, white text on black or gray backgrounds may be missing when Use Printer Patterns is selected.

## **Optimize for Performance**

Selecting Optimize for Performance configures the printer driver to minimize the application/printer driver overhead. In most cases, printing performance is increased. However, with some applications, selecting Optimize for Performance can result in missing or incorrect overlay of text and/or graphics.

