Digital Research®

Artline®

Utilities Guide

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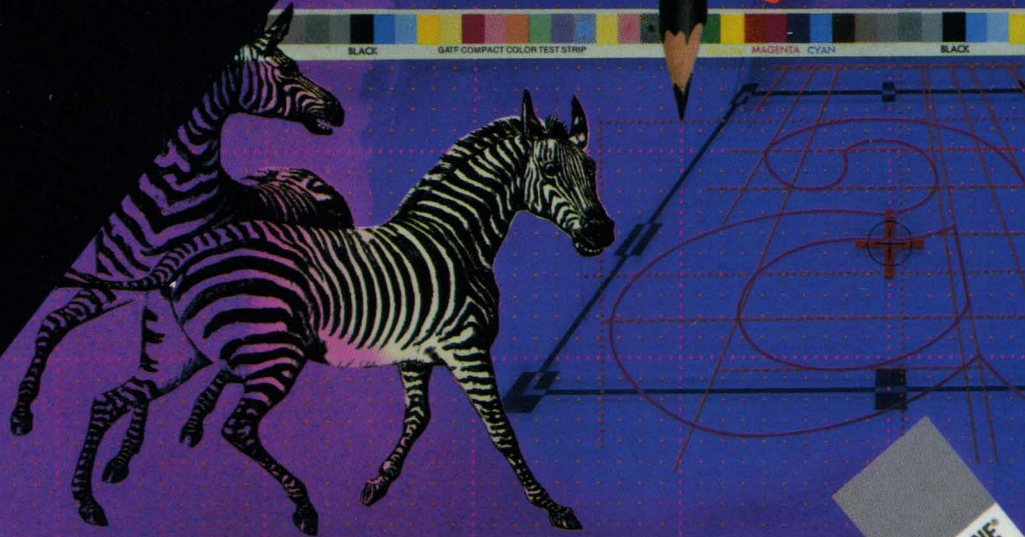
BLACK   GATF COMPACT COLOR TEST STRIP   MAGENTA CYAN   BLACK

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Artline®

Graphics Utilities Guide

O Digital Research.

NOTICE TO USER

TRADEMARKS

Artline Utilities Guide
First Edition: August 1990

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Preface

This book is your guide to the Artline 2.0 utilities. The utility programs described in this book are:

❑ Font Filter Conversion programs;

❑ Digital Research Output printing software;

❑ MAGICorp® slide and print service.

There are also appendices that list the Artline international character set, the methods for changing the .CNF files that you use for printing, and the font ID numbers for various typefaces.

Use this guide as a companion to the following Artline publications:

❑ *Artline Installation / Startup Tutorial.* A guide describing how to install Artline, utilities, and associated software; and a task-oriented tutorial demonstrating the creation and use of pictures.

❑ *Artline User Reference Guide.* A reference guide to menu commands, dialog options, and tools.

❑ *Artline Clip Art Gallery.* A pictorial reference guide to clip art libraries.

Font Filters
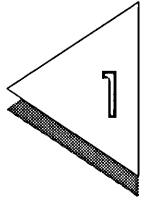
THIS chapter describes Artline's *font filters*, special programs that convert font files to the Artline AF4 format.

Filters are available for font files in these formats:

- ❑ Bitstream® Fontware™ .PFA
- ❑ Adobe® Type 1 .PFB
- ❑ Fontographer® .PFA

There are three font filters, each with a name intended to help you remember its function.

- ❑ The Bitstream Fontware conversion file is called BLDAF4.EXE ("From Bitstream .PFAs to build AF4").

- ❑ The Adobe Type 1 conversion file is called TP12AF4.EXE ("Type 1 to AF4").

- ❑ The Fontographer conversion file is called FGF2AF4.EXE ("FontoGrapher to AF4").

Running Font Filters

You can run font filters from the command line or by using the **To App** command in Artline. You should normally run the font filters from the command line if you have long path names, or if you want to use the various switch settings in converting fonts.

To Use the To App Command:

1. Choose the **To App** command from the File menu.

2. In the Run Application dialog, click on the Run button to display the Item Selector. Then follow these steps:

   — Open the ARTLINE directory, and then open the CONVERT sub-directory.

   — Double-click on the appropriate application file, which in this case is BLDAF4.EXE, to place it in the Run box, as shown below.

```
┌─────────────────────────────────────────────────────────┐
│                    Run Application                        │
│                                                           │
│  Run  │ C:\ARTLINE\CONVERT\BLDAF4.EXE              │      │
│                                                           │
│  ┌ Parameters ──────────┐  ┌ Application Type ──────┐    │
│    ○ Current File            ○ GEM                        │
│    ○ Current Image          ◉ DOS                         │
│    ◉ Request...                                           │
│    ○ None                    ☐ Full Memory                │
│  └──────────────────────┘  └───────────────────────┘    │
│                                                           │
│  ┌ Options ─────────────────────────┐                    │
│    ☒ Auto-Save Current Picture        ┌──────────┐       │
│    ☐ Return To Artline                │    OK    │       │
│                                       └──────────┘       │
│                                       ┌──────────┐       │
│                                       │  Cancel  │       │
│                                       └──────────┘       │
└─────────────────────────────────────────────────────────┘
```
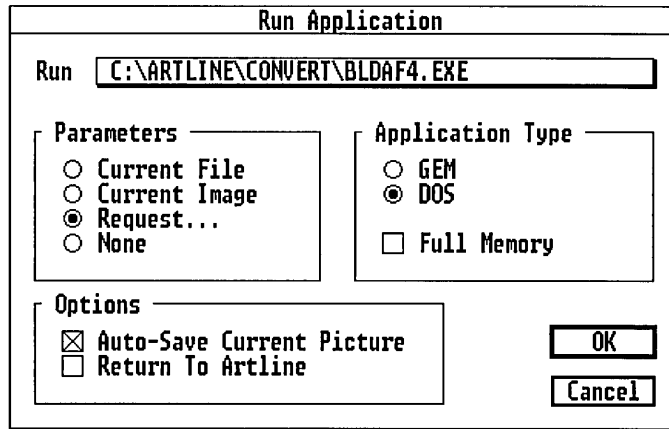
3. Select the following options in the Run Application dialog:

   — Request for Parameters.

   — DOS for Application Type;

   — Auto-Save Current Picture if you want to save a picture currently displayed in Artline before the font conversion begins;

   — Return to Artline if you want to return to Artline after the fonts are converted.

4. Click on OK to exit the dialog and then display the Command Line dialog.

5 In the Command Line dialog, type the path for the font conversion in this order (note that the space for the path is limited):

— In the left, or source, part of the Command Line field, type the name of the directory or sub-directory in which the PostScript fonts are stored. In the example shown below, the partial path \OUTLINES indicates that this directory is on the default drive, C.

— At the end of the source path, type the filename of the PostScript font (DFGQ in the example shown below), without its extension. Make sure that you insert a space at the end of the source path.

— In the right, or destination, part of the Command Line field, type the path to where the converted font will be stored (usually this will be the FONTS sub-directory of ARTLINE).

— At the end of the destination path, type the filename you want to assign to the converted font.

```
┌─────────────────────────────────────────────┐
│                Command Line                  │
├─────────────────────────────────────────────┤
│  Enter the command line for BLDAF4.EXE    :  │
│  ┌───────────────────────────────────────┐   │
│  │\OUTLINES\DFGQ \ARTLINE\FONTS\WINDSOR   │   │
│  └───────────────────────────────────────┘   │
│                                              │
│                       ┌────────┐ ┌────────┐  │
│                       │   OK   │ │ Cancel │  │
│                       └────────┘ └────────┘  │
└─────────────────────────────────────────────┘
```
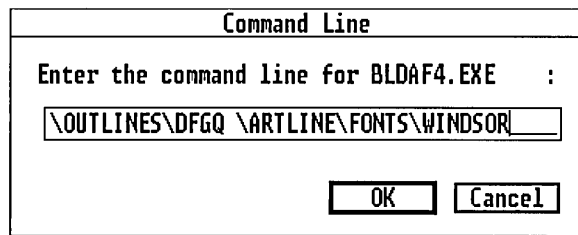
6 Click on OK to convert the font. You are prompted throughout the conversion process.

Bitstream Fontware Conversion

When generating Fontware files, set up the control panel for PostScript printer fonts only. You do not need to create screen fonts.

Bitstream Fontware PostScript printer font files have the extension .PFA. They can be created by versions 1.2 and 2.0 of the program. The version of Fontware that is used with GEM Artline generates .AFF files that cannot be converted to .AF4 files.

In addition to the font's .PFA file, you need two other files that should have been created at the same time. Both files have the same name as the .PFA file; they differ only in their extension.

❏ A font information file (.PFI) is required. BLDAF4 cannot create the .AF4 file without it.

❏ An Adobe font metric file (.AFM) must be present if you want to be able to kern characters. Kerning is discussed in the *Artline User Reference Guide*.

The command line for creating an Artline font file from a Bitstream Fontware file is:

BLDAF4 *PFA filename*[.PFA] [AF4 filename[.AF4]]

Square brackets indicate optional components of the command line:

❏ AF4 filename—if you do not provide an AF4 filename, the .AF4 file will be created with the same name as the .PFA file.

❏ File extension—the BLDAF4 program automatically looks for files with the .PFA extension and converts them to files with the .AF4 extension.

The following command line converts CUPQ.PFA—the Bitsteam Fontware file for ITC Galliard®—to a file called GALLIARD.AF4:

BLDAF4 CUPQ GALLIARD

Adobe Type 1 Conversion

Adobe Type 1 files—also called *binary* PostScript—have the extension .PFB. In the Adobe Type Library sets, the .PFB file is usually in the PSFONTS directory on the first disk of the set. The .AFM file, which contains the information that is required for kerning, is usually in the root directory of the third disk.

The command line syntax for converting Type 1 files is as follows:

> **TP12AF4 *PFB filename*[.PFB] [AF4 filename[.AF4]]**
>
> **[/I=x] [/W=x] [/A=OFF]**

Square brackets indicate optional components of the command line:

- AF4 filename—if you do not provide an AF4 filename, the .AF4 file will be created with the same name as the .PFB file.

- File extension—the TP12AF4 program automatically looks for files with the .PFB extension and converts them to files with the .AF4 extension.

- The /I= switch gives the font identifier number (font ID). This number makes it possible for you to use resident fonts when present in your printer or typesetter. Appendix C contains a complete list of font IDs.

   If you do not provide a font ID, TP12AF4 automatically supplies the default ID of 255. Taking the default can potentially lead to duplicate font IDs. See page 1-9.

❏ The /W= switch gives the weight of the font. The switch accepts these values:

— 0 = Roman
— 1 = Bold
— 4 = Italic
— 5 = Bold Italic

If you do not provide a weight value, the default value 0 (Roman) is supplied automatically.

❏ The /A=OFF switch turns off all warnings and alerts.

The following command line converts BDB_____.PFB (the Adobe Type 1 file for the Bodoni Bold typeface) to a file called BDNIBOLD.AF4:

TP12AF4 BDB_____ BDNIBOLD /I=36 /W=1

Fontographer Conversion

Fontographer files have the extension .PFA. The kerning files have the extension .AFM.

The command line syntax for converting Fontographer files is as follows:

FGF2AF4 *PFAfilename***[.PFA] [AF4filename[.AF4]]**

    [/I=x] [/W=x] [/A=OFF]

Square brackets indicate optional components of the command line:

❏ AF4 filename—if you do not provide an AF4 filename, the .AF4 file will be created with the same name as the .PFA file.

❏ File extension—the FGF2AF4 program automatically looks for files with the .PFA extension and converts them to files with the AF4 extension.

❏ The /I= switch gives the font identifier number (font ID). This number makes it possible for you to use resident fonts when present in your printer or typesetter. Appendix C contains a complete list of font IDs.

If you do not provide a font ID, FGF2AF4 automatically supplies the default ID of 255. Taking the default can potentially lead to duplicate font IDs. See page 1-9.

❏ The /W= switch gives the weight of the font. The switch accepts these values:

— 0 = Roman
— 1 = Bold
— 4 = Italic
— 5 = Bold Italic

If you do not provide a weight value, the default value 0 (Roman) is supplied automatically.

❏ The /A=OFF switch turns off all warnings and alerts.

The following command line converts BDB0024.PFA (a Fontographer-format file for the Bodoni Bold typeface) to a file called BDNIBOLD.AF4:

FGF2AF4 BDB0024 BDNIBOLD /I=36 /W=1

Duplicate Font IDs

If you do not provide a font ID when converting Adobe Type 1 or FontoGrapher font files, the conversion program automatically supplies the font ID 255. The next time you convert a font, you must provide a unique font ID, or you will encounter problems caused by duplicate font IDs.

Fonts with duplicate IDs cannot be added to the font list in Font Manager. (See Chapter 9 of the *Artline User Reference Guide*.). After the first font is added to the font list, attempts to add others with the same ID result in the display of the alert shown below:

```
┌─────────────────────────────────────────────┐
│  👆   The typeface you want to install  [ OK ]│
│       is already installed as                 │
│       Bodoni.                                 │
│       Before installing this typeface         │
│       you should remove the existing one.     │
└─────────────────────────────────────────────┘
```
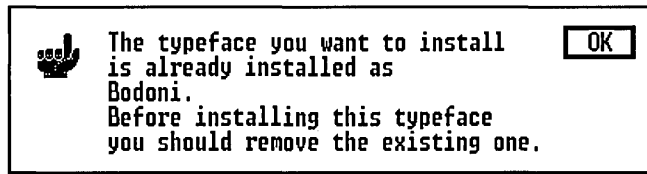
There are two ways you can avoid this situation:

❏ Use the correct ID for the font you are creating. Font IDs are listed in the table in Appendix C.

❏ If you cannot provide the correct font ID, specify a font ID for each new font that is one less than the ID given to the previous font—255, 254, 253, and so on.

Output
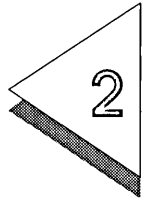
The Output application prints and displays files created with Artline (and with other Digital Research graphics applications).

With Output, you can:

❏ print one or several files;

❏ display files on your screen;

❏ make and save lists of files for later printing or display;

❏ redirect your output to a file for transmission over a network or to a remote device, such as a Linotronic™ phototypesetter.

Starting Output

To Start Output:

Display the File menu and choose the **To Output** command. The Output screen appears. The name of the file that was open in Artline automatically appears in the FILES TO PRINT list on the Output screen.

Output Screen

File Options Preferences			OUTPUT

untitled

```
          START              FILES TO PRINT          Remove name
         Postscript    C:\PT\CLIPART\INDUSTRY\BARN.GEM
                       C:\PT\CLIPART\INDUSTRY\BOLT.GEM
                       C:\PT\CLIPART\INDUSTRY\CAPITOL.GEM
                       C:\PT\CLIPART\INDUSTRY\CHEESE.GEM
     C:\...\INDUSTRY    C:\PT\CLIPART\INDUSTRY\COURTHSE.GEM    Copies:
   ◄   pictures   all
   AGRISYMB.GEM                                                    01
   BARN.GEM
   BOLT.GEM
   CAPITOL.GEM                                              DEVICES
   CHEESE.GEM
   COURTHSE.GEM                                              Genius
   CROPS.GEM
   DONTSIGN.GEM
   FIREXTIN.GEM
   GAVEL.GEM                                               Postscript
   GRAPES.GEM
   HAMMER.GEM
   LIGHTBLB.GEM                                             MagiCorp
   MICSCOPE.GEM
```
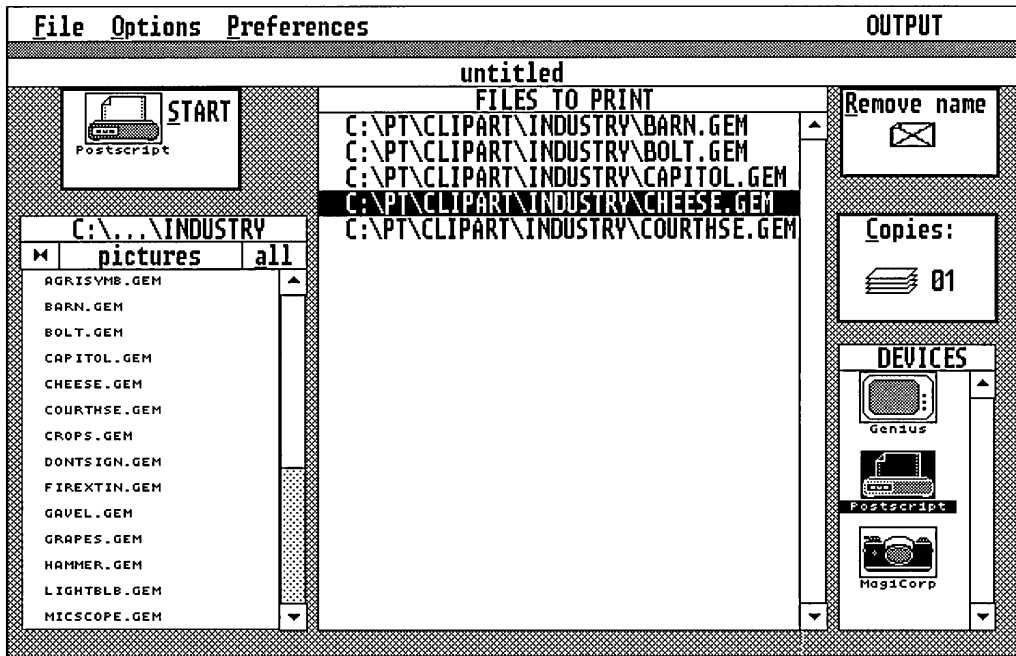
The components of the Output screen are:

❑ The START button begins the printing or displaying of a file.

❑ The menu bar lists the names of the Output menus.

❑ The title bar contains the full path specification of the current output list file, if one is open.

❑ The FILES TO PRINT list shows the names of files to print or display.

❑ The Remove name button removes selected files from the FILES TO PRINT list.

❑ The File Selector window lists the disk drives and directories from which you select files to add to the FILES TO PRINT list.

❑ The Copies button shows the number of copies to print.

❑ The DEVICES window contains icons representing the output devices you installed during Setup. Initially, the Output window appears in the center of the screen. You can move the Output window by dragging its title bar.

Printing

If you are in Artline, open the file you want to print. Then choose **To Output** from the File menu. When the Output screen appears, the filename appears in the FILES TO PRINT list.

To print the files:

1. Click on the icon of the device (in the DEVICES window) to which you want to send the file.

2. Click on the START button. (The keyboard shortcut is Alt-S.)

The time required to print files depends on the size of each file.

Other printing options:

❑ To add files to the FILES TO PRINT list, click on the filename(s) you want in the File Selector.

❑ To remove a filename from the FILES TO PRINT list, select the name, then click on the Remove name button. (The keyboard shortcut is Alt-R.) To remove more than one file, select the filenames with the Shift-click technique.

❑ To change the number of copies, click on the Copies button, use the Backspace key to clear the field, then enter the number of copies you want (up to 99). (Output resets the number of copies to 1 two minutes after the last document is processed.)

To Exit Output

The **To Artline** command from the File menu returns you to Artline. To exit Output and return to the operating system prompt, choose the **Quit** command.

File Selector

```
    C:\...RT\PEOPLE
 ⋈    pictures      all
  CLERK.GEM              ▲
  COMP_OPR.GEM
  DESK.GEM
  DRAFTER.GEM
  FARMER.GEM
  FILING.GEM
  MAILCARV.GEM
  MAN.GEM
  MAN1.GEM
  PHOTOGR.GEM
  READING.GEM
  STUDENT.GEM
  WOMAN.GEM
  WOMAN1.GEM            ▼
```
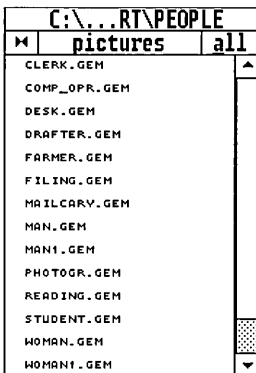
Use the File Selector to add filenames to the FILES TO PRINT list.

The current disk drive and directory are identified in the *directory line* of the File Selector. The example shown to the left displays the files in a sub-directory of drive C. On the directory line, long directory names are abbreviated so that only the last two letters of the name appear.

To find files in a different directory or drive:

❏ To open the next higher level in the directory path, click on the close box in the upper left corner. Thus, if the directory line reads `C:\CLIPART\PEOPLE` and you click on the close box, the directory line changes to `C:\CLIPART`. Directory names are preceded by an asterisk to distinguish them from filenames.

❏ To open a subdirectory, click on the subdirectory name.

❏ To change disk drives, click on the close box until the disk drive identifiers are listed; then click on the drive you want.

The directories, subdirectories, and filenames in the directory list are displayed in the following order:

❏ Directories and subdirectories display first and are marked by a backslash (\).

❏ Filenames are listed second, alphabetized by filename extension. Thus, .GEM files are alphabetized together and listed before .IMG files.

Click on each filename in the File Selector list that you want to print or display. To place all the files in a directory in the FILES TO PRINT list, click on the all box in the upper right corner of the File Selector window.

If the File Selector list contains more directories or filenames than can be displayed in the window, you can move the slider up or down to scroll the list:

❑ To scroll toward the top of the list, click on the up-arrow (at the top of the slider)—the directory list moves one filename for each click. Hold the mouse button down to move continuously toward the top of the directory list. To scroll toward the bottom of the list, click on the down-arrow (at the bottom of the slider)—the directory list moves one filename for each click.

❑ You can scroll the length of one window by clicking in the scroll box either below or above the slider.

❑ To scroll by larger segments of the list, drag the slider in the direction you want to move.

File Types

File types are categorized by file extension. To change the type of files listed in the directory window, click on the file box. For example, if the file type indicated is images, only files in the specified directory having the file extension .IMG will display in the directory list.

Duplicating Filenames

To use a filename more than once in the FILES TO PRINT list, click on the filename in the File Selector as many times as you want it to print.

Changing Filename Order

To change the position of a filename in the FILES TO PRINT list, click on the filename to select it, and then drag the filename to the new position in the list.

Creating Output Lists

To create an output file list:

1. Add filenames to the list in the FILES TO PRINT window.

2. Choose **Save as** from the File menu to display the Item Selector.

```
┌──────────────────────────────────────────────────────────┐
│ ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓ Item Selector ▓▓▓▓▓▓▓▓▓▓▓▓▓▓ │
│ Directory:                                                │
│ C:\CLIPART\*.LIS_____       │
│ ┌─┬────────────┐                                          │
│ │►│    *.LIS   │                                          │
│ │ ├──────────┬─┤                                          │
│ │ │          │▲│   Selection: │_____.__                │
│ │ │ GROUP1 .LIS│                                          │
│ │ │ GROUP2 .LIS│                                          │
│ │ │ ──────·──  │                                          │
│ │ │ ──────·──  │                                          │
│ │ │ ──────·──  │                                          │
│ │ │ ──────·──  │                       ┌──────┐           │
│ │ │ ──────·──  │                       │  OK  │           │
│ │ │ ──────·──│▼│                       └──────┘           │
│ │ │ ──────·──  │                       ┌────────┐         │
│ └─┴──────────┴─┘                       │ Cancel │         │
│                                        └────────┘         │
└──────────────────────────────────────────────────────────┘
```
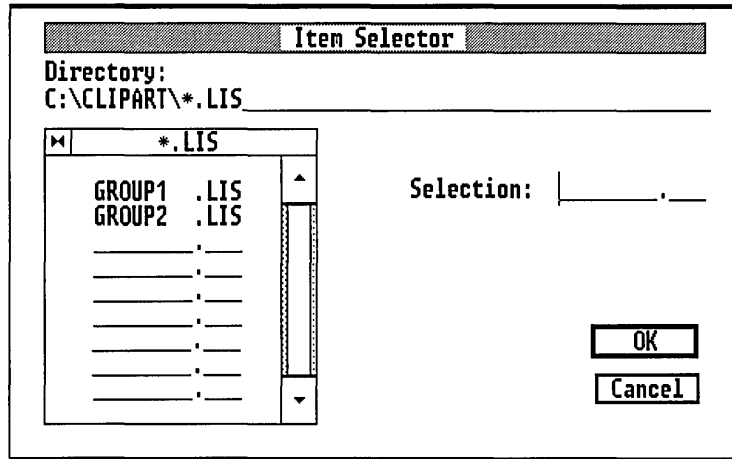
3. Enter a name for your list (up to eight characters) on the Selection line. Output automatically supplies the file extension .LIS when you exit the Item Selector.

4. Click on OK or press the **Enter** key to save your list.

Use **Save** to preserve subsequent changes to the list, and use **Save As** to save changes under a different name.

NOTE: Whenever you use the list, the files in it must be present in the same directory and have the same filenames as when the list was created. If you rename, move, or delete one of these files, you must update the output list.

Opening Output Lists

To open an output list:

| 1 | Choose the **Open** command from the File menu. |

| 2 | In the Item Selector, find and select the output list filename. |

When you open an output list, Output displays the filenames in the FILES TO PRINT list. The title bar shows the location and name of the list.

Displaying Files

To send one or more files to your display:

| 1 | Select the files with the File Selector. |

| 2 | When all the files are listed in the FILES TO PRINT window, click on the display icon in the DEVICES window. |

| 3 | Click on the START button to begin displaying the selected files. |

| 4 | After the first file displays, click the mouse button to advance to the next one. Press the **Esc** key to cancel the display. |

Menus

You can display menus and choose commands with the mouse, or you can use the keyboard.

To "un-display" a menu chosen with the mouse, click outside the menu.

File Menu

Use the File menu to open and save .LIS files and to quit
Output.

```
┌─────────────────────────┐
│ File                    │
│  New                    │
│  Open...                │
│ ~~~~~~~~~~~~~~~~~~~~~~~~ │
│  Save                   │
│  Save as...             │
│ ~~~~~~~~~~~~~~~~~~~~~~~~ │
│  To Artline             │
│  Quit                   │
└─────────────────────────┘
```
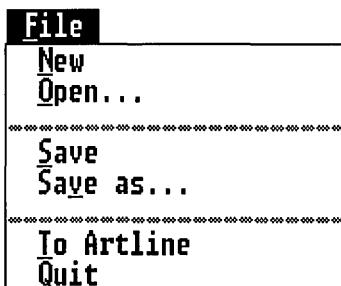
New Command

The **New** command clears all filenames from the FILES
TO PRINT list and from the title bar.

Open Command

The **Open** command displays the Item Selector, in which
you select files to add to the FILES TO PRINT list. If you
select a file while the the FILES TO PRINT list contains
one or more filenames, the file is appended to the list.

Save Command

The **Save** command saves the current output list in a file
under the name appearing in the title bar.

Save As Command

The **Save as** command displays the Item Selector. Use
this command to name and save an output list for the
first time, or to save an existing output list under a new
name.

To Artline command

The **To Artline** command returns you to Artline.

Quit Command

The **Quit** command exits Output and returns you to the operating system prompt.

Abandon/Save Alert

When you choose the **New, Open,** or **Quit** command after making changes to an output list file, Output displays the Abandon alert. (It displays only if you have selected the .LIS Changes box by using the **Global** command from the Options menu.)

```
┌──────────────────────────────────────────────────┐
│  ▄▄    Abandon/Save edited .LIS file? │ Abandon │ │
│ ▐██▌                                  └─────────┘ │
│                                       ┌─────────┐ │
│                                       │  Save   │ │
│                                       └─────────┘ │
│                                       ┌─────────┐ │
│                                       │ Cancel  │ │
│                                       └─────────┘ │
└──────────────────────────────────────────────────┘
```
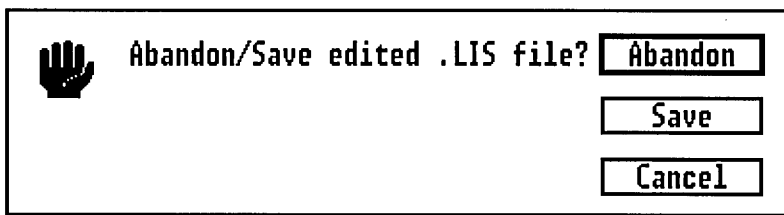
With this alert, you have these options:

Abandon

Output abandons any changes you have made to the output list file and carries out the selected command.

Save

The output list file is saved under its current name, or a name you select, before your original command executes.

Cancel

The command is canceled and the output list remains as it was.

Options Menu

Use the commands on the Options menu to set device printing options.

```
Options
  Global...
  Page Scale...
  File Label...
  Network settings
  ─────────────────
  Save preferences
```
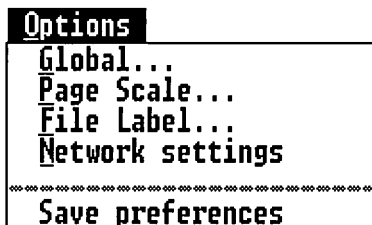
Global Command

The **Global** command displays the Global Options dialog.

```
┌─────────────────────────────────────────┐
│          Global Options                  │
│  ┌───────────────────────────────────┐  │
│  │  Print pages  [001]  through [999] │  │
│  │                                    │  │
│  │  ⊠  Confirm .LIS changes           │  │
│  └───────────────────────────────────┘  │
│              [ ? ] [ Cancel ] [ OK ]     │
└─────────────────────────────────────────┘
```
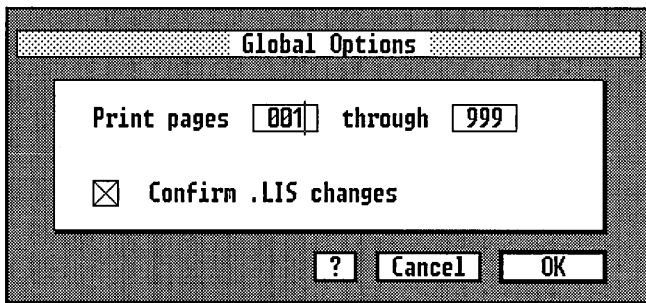
Print pages numbered 001 through 999

Prints a range of pages from a document. To set a page range, click on the number you want to change, use the **Backspace** key to clear the field, then type the new number. (The numbers refer to the sequential number of consecutive pages, not to any page numbering scheme used in the document.)

Confirm .LIS changes

If you click on this box, Output displays the Abandon alert whenever you make changes and then choose **New, Open,** or **Quit**. If you don't click in the box, the alert will not display.

Page Scale Command

The **Page Scale** command displays the Printer Page Scale Options dialog.
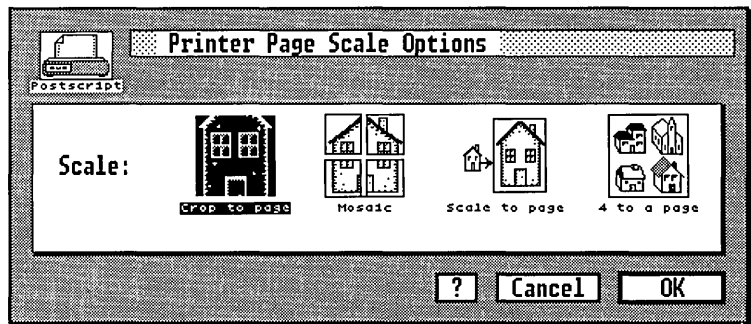
Crop to page

Prints the picture in its actual size and centers it on the page. Any part of the picture that does not fit on the page is cropped.

Mosaic

Prints the picture at its actual size, over as many pages as necessary. You can use the Mosaic option to print segments of the picture on several pages and then paste the segments together to form the picture at its original size.

Scale to page

Enlarges or reduces the picture to fit on one full page.

4 to a page

Prints pictures from four files on the same page; each picture is scaled to occupy one-quarter of the page.

File Label Command

The **File Label** command displays the Printer Preferences: File Label dialog.

```
┌──────────────────────────────────────────────────┐
│  ┌───┐  ▓▓ Printer Preferences: File Label ▓▓     │
│  │   │                                             │
│  └───┘                                             │
│  Postscript                                        │
│   ┌──────────────────────────────────────────┐    │
│   │ ⊠  Print File Label                       │    │
│   │     ┌──── File label position ────┐       │    │
│   │     │  ○ Left   ⊙ Center  ○ Right  │       │    │
│   │     └──────────────────────────────┘       │    │
│   │                                            │    │
│   │       □  Include path                      │    │
│   │       □  Include date & time               │    │
│   └──────────────────────────────────────────┘    │
│                      [ ? ] [ Cancel ] [   OK   ]   │
└──────────────────────────────────────────────────┘
```
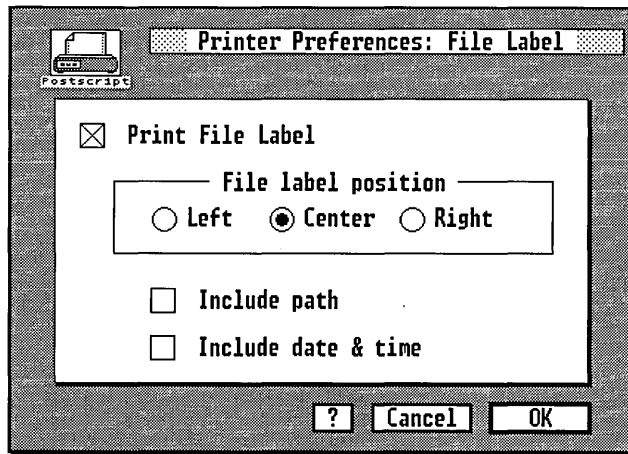
Print File Label

Prints a filename at the bottom of each page in the position you choose—Left, Center, or Right.

Include path

Includes the complete path name in the file label.

Include date & time

Includes the operating system's date and time stamp in the file label.

Network Settings Command

The **Network settings** command is not applicable to Artline because it can be only be used by network users.

Save Preferences Command

The **Save preferences** command saves:

❏ All Options menu dialog settings;
❏ The currently selected device;
❏ All device preferences set in the Preferences menu dialogs, not just those set for the currently selected device.

The next time you start Output, the preferences you saved last will be in effect.

To restore Output to the default preferences (those existing when you first installed Artline), exit to the command line and then enter these commands:

CD \ARTLINE⏎

DEL OUTPUT.INF ⏎

The first command accesses the ARTLINE directory, and the second command deletes the file in which your Output preferences are stored. A new .INF file is created each time you use Output.

Preferences Menu (Screens)

The commands listed in the Preferences menu depend on the selected output device. If the device is a screen, the Preferences menu lists only the **Screen** command.

Screen Command

The **Screen** command displays the Screen Preferences dialog.
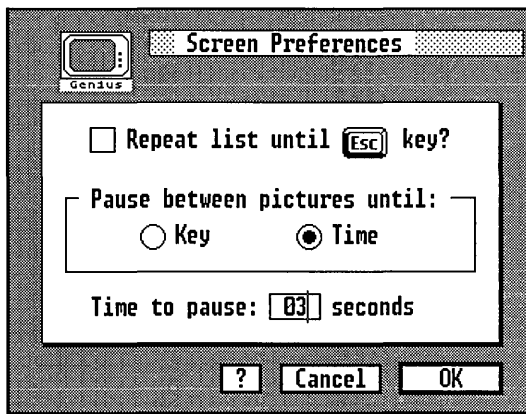
Note that the icon for the currently selected screen appears in the upper left corner of the dialog.

Repeat list until Esc key?

When this option is turned on, the files in the Output list are displayed repeatedly until you press the **Esc** key.

Pause between pictures until:

Key

You must press one of the keys listed in the following table to display the next or previous file in the list. You can also click the mouse button to display the next file.

This table lists the Output keyboard shortcuts to use when you are displaying files:

To display the next file:	To display the previous file:
Tab	PgUp
PgDn	Shift-Tab
Return	Backspace

Time

This option sets Output to cycle automatically through the output list, displaying each document for the time specified in the "Time to pause" field described next.

Time to pause:

To change the setting, use **Shift-Del** or the **Backspace** key to clear the field, and then type the number of seconds to pause between files or pages (from 0 to 99 seconds). Once you start output to the screen, you can stop the display by pressing the **Esc** key.

Preferences Menu (Printers and Plotters)

The commands listed in the Preferences menu depend on the selected output device. If the device is a printer or plotter, the Preferences menu lists four commands specific to printers and plotters.

```
┌─────────────────┐
│ Preferences     │
│  Paper size...  │
│  Paper tray...  │
│  Port selection...│
└─────────────────┘
```
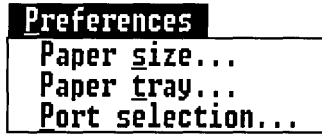
Note that the icon for the selected printer or plotter appears in the upper left corner of each dialog displayed by these commands.

Paper Size Command

The **Paper size** command displays the Printer Preferences: Paper Size dialog.
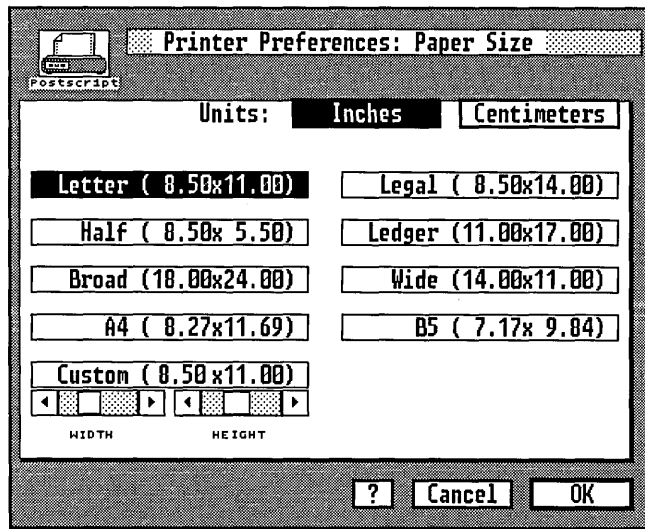
Click on the button that indicates the size you want. To view the sizes in metric, click on the Centimeters button.

To set a size that is not listed, click on the Custom button and then set the page width and height with the scroll bars under the button. The minimum setting is 2 inches (5 centimeters); the maximum is 25 inches (63.5 centimeters).

You can change the settings by moving the slider, by clicking in the scroll bar, or by clicking the left- or right-arrow. Clicking in a bar changes the value by 0.5 inch or 0.5 centimeter. Clicking on the arrows changes the value by .01 inch or .01 centimeter.

Paper Tray Command

The **Paper tray** command displays the Printer Preferences: Paper Tray dialog.

```
┌──────────────────────────────────────────┐
│  ┌─────┐  ░░ Printer Preferences: Paper Tray ░░  │
│  │  ▣  │                                     │
│  └─────┘                                     │
│  Postscript                                  │
│  ┌────────────────────────────────────────┐ │
│  │  ⊙  Default - Main Tray or Continuous Form │ │
│  │  ○  Manual Feed                         │ │
│  │  ○  Optional Tray  [ #1 ]               │ │
│  └────────────────────────────────────────┘ │
│                    [ ? ] [ Cancel ] [  OK  ] │
└──────────────────────────────────────────┘
```
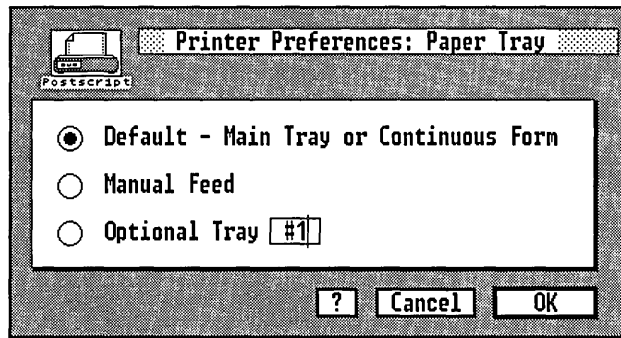
Default - Main Tray or Continuous Form

This option directs single-sheet output (typically on a laser printer) to the paper tray designated as the default. This is also the option to choose for continuous form or roll paper on dot-matrix and similar printers.

Manual Feed

This option sets your printer or plotter for a manual feed
option, or for a pause between pages. This is useful with
single-sheet printers and most plotters.

Optional Tray

This option allows you to print from a tray other than the
printer's main tray. To specify a tray number, use **Shift-
Del** or the **Backspace** key to clear the field and then
type the tray number.

Port Selection Command

The **Port selection** command displays the Printer Prefer-
ences: Port Selection dialog.

```
┌──────────────────────────────────────────────────────┐
│  ┌──┐    ▒▒ Printer Preferences: Port Selection ▒▒▒   │
│  │  │                                                  │
│  └──┘                                                  │
│  Postscript                                            │
│  ┌──────────────────────────────────────────────────┐ │
│  │  ┌ Send output to: ──────┐                        │ │
│  │  │ ● File                │                        │ │
│  │  │ ○ Serial: COM1        │                        │ │
│  │  │ ○ Parallel: LPT2      │                        │ │
│  │  └───────────────────────┘                        │ │
│  │  Directory: C:\PT_____  │ │
│  │       File: PRINTSPL.&&&                           │ │
│  └──────────────────────────────────────────────────┘ │
│                          [ ? ] [ Cancel ] [   OK   ]   │
└──────────────────────────────────────────────────────┘
```
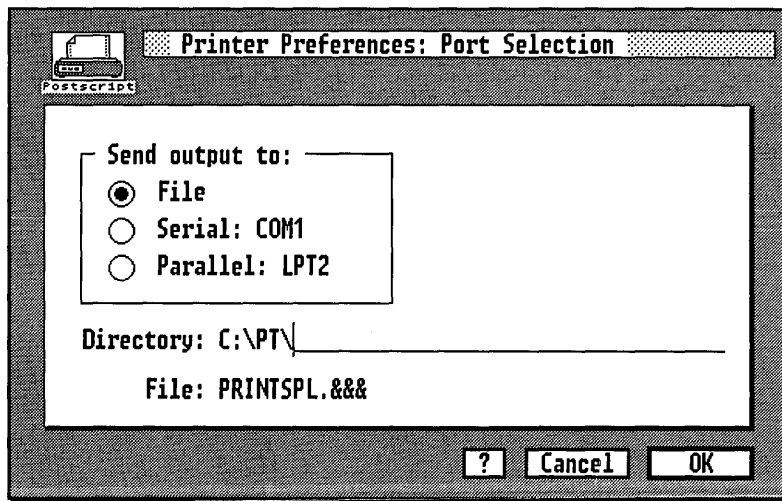
Send output to:

These options redirect your output to a file or to a device
other than the one specified in your installation.

File

The output is redirected to a file. When you select File, the two dimmed fields at the bottom of the dialog become available:

❏ Directory:

Enter the full path specification of the file in this field. By specifying a disk drive identifier other than the current drive, you can create the file on another disk.

❏ File:

Enter the name of the file in this field.

Serial or Parallel

To redirect your output to a device connected to a port other than the one specified in your installation, click on the Serial or Parallel button and then enter the port number for the target device.

For example, to print to a parallel device connected to LPT5, click on the Parallel button and then type **5** in the LPT field.

Preferences Menu (Cameras)

If you installed a camera device, click on the icon for this device in the DEVICES window. In the Preferences menu, the **Film** and **Color** commands become available.

```
┌─────────────────┐
│ Preferences     │
├─────────────────┴──────┐
│   Film...              │
│   Color...             │
└────────────────────────┘
```

Film

When you choose the **Film** command, Output displays the Camera Preferences: Film dialog. In this dialog you specify the type of film you will use.

```
┌──────────────────────────────────────────────────────┐
│ [📷]  ▓▓ Camera Preferences: Film ▓▓▓▓▓▓▓▓▓▓▓▓▓       │
│ Polaroid Cam                                          │
│  ┌─────────────────────────────────────────────────┐ │
│  │   Film Type                     Lightness        │ │
│  │  ⦿ Polaroid 669/691                [-3]          │ │
│  │  ○ Polaroid Polachrome                           │ │
│  │  ○ Polachrome HC                   [-2]          │ │
│  │  ○ Polaroid 339 Autofil            [-1]          │ │
│  │  ○ Reserved for future use         [ 0 ]         │ │
│  │  ○ Reserved for future use                       │ │
│  │  ○ Reserved for future use         [+1]          │ │
│  │  ○ Reserved for future use         [×2]    [ ? ] │ │
│  │  ○ Reserved for future use         [+3]    [ OK ]│ │
│  │                                          [Cancel]│ │
│  └─────────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────────┘
```
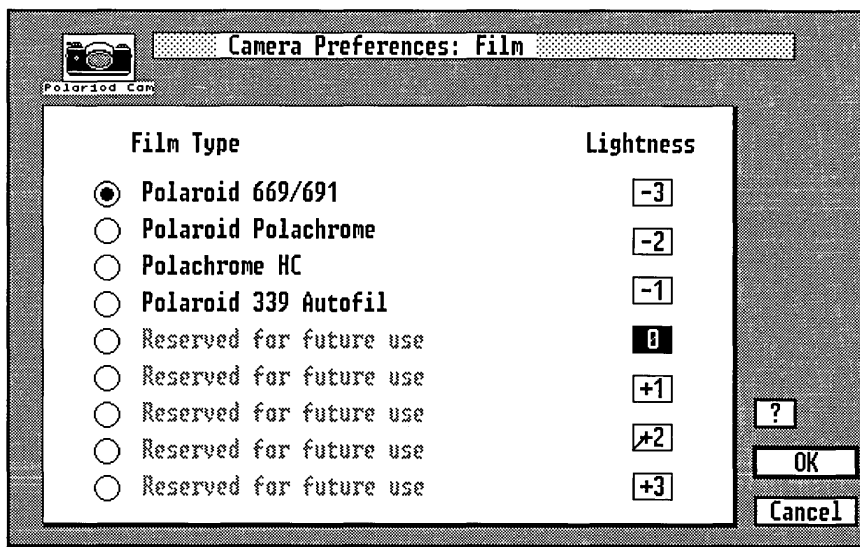
Film Type

Click on the button for the film type you will use. The film types listed are device-dependent.

Lightness

This setting lets you vary the exposure of your pictures. The 0 setting is average for most films. Experiment with your equipment to determine which settings are best.

Color

When you choose the **Color** command, the Camera Preferences: Color dialog appears.

```
╔══════════════════════════════════════════════════╗
║   ┌────┐    ░░░Camera Preferences: Color░░░░░░░░   ║
║   │ 📷 │                                           ║
║   └────┘                                           ║
║  Polaroid Cam                                      ║
║                                                    ║
║  Color index: [ 0 ][ 1 ][ 2 ][ 3 ][ 4 ][ 5 ][ 6 ][ 7 ]  ║
║               [ 8 ][ 9 ][ 10 ][ 11 ][ 12 ][ 13 ][ 14 ][ 15 ]  ║
║                         Current Color Setting      ║
║  Basic color: [White][Black][ Red ][Green][Blue][Cyan] ║
║               [Yellow][Magenta][Brown][Orange][Grey][Purple] ║
║    Intensity: [Light][2][3][4][5][6][7][8][9][Dark]  ║
║                                                    ║
║    ┌─────────────────┐                             ║
║    │   Red: 100 %    │                             ║
║    │ Green: 031 %    │          [ ? ][Cancel][ OK ]║
║    │  Blue: 031 %    │                             ║
║    └─────────────────┘                             ║
╚══════════════════════════════════════════════════╝
```
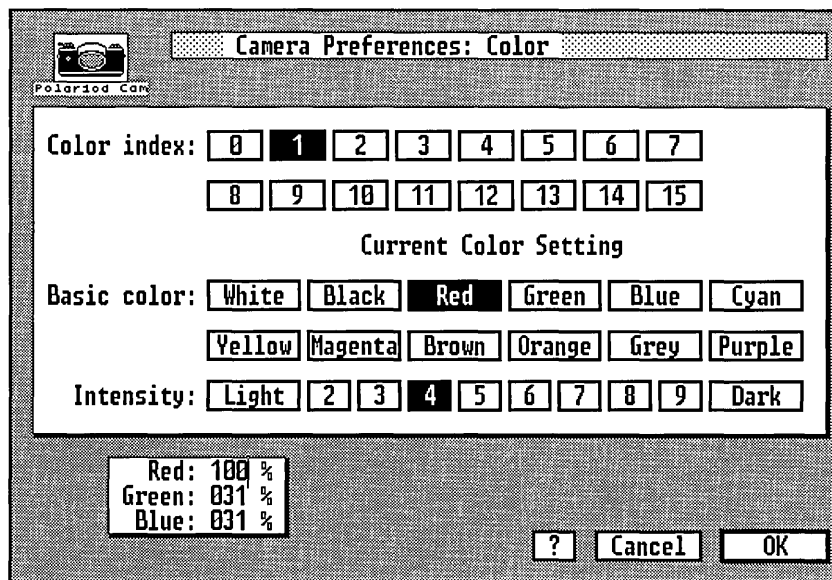
In this dialog you can change the colors your camera produces. But other factors can affect your results, such as the film type, the speed rating, the film age, the ambient temperature, and the humidity.

Color index

Use this option to identify the color associated with the color code used in Artline. For example, yellow is the default color associated with 6.

Basic Color

Use this option to change the color associated with a selected color index number. For example, you could change color 6 from yellow to blue.

Intensity

Use this option to make the color darker or lighter. Higher numbers decrease the color intensity, while lower numbers increase it.

RGB Percentages

In the percentage counters at the lower left of the dialog you can change the amount of red, green, or blue in a selected color . Use the **Backspace** key to delete the current setting and then enter a new setting.
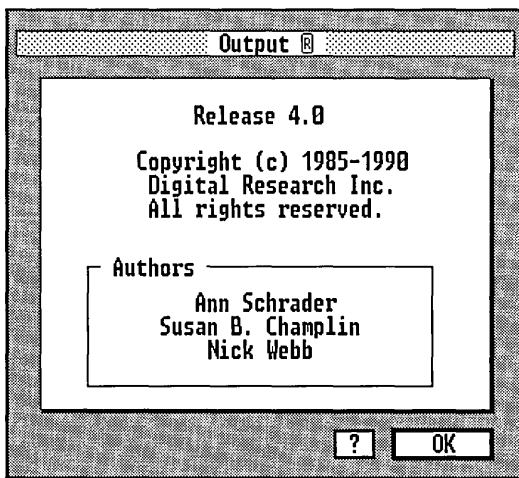
You create new colors by specifying percentages of red, green, and blue. However, the existing Basic color and intensity settings may become irrelevant because they are based on standard values. Also, because cameras and films vary, you may have to experiment to get the exact colors you want. The following table shows the results of various RGB combinations:
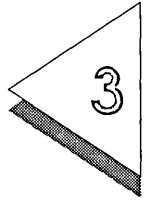
Red	Green	Blue	Result
100%	0%	0%	Pure Red
0%	0%	100%	Pure Blue
0%	0%	0%	Black
100%	100%	100%	White

Output Menu

Output Info Command

The **Output Info** command displays a dialog that identifies the version number of the Output you are using. Refer to this number when you call for technical support.

```
                 Output ®

               Release 4.0

          Copyright (c) 1985-1990
           Digital Research Inc.
           All rights reserved.

      ┌ Authors ──────────────────┐
      │        Ann Schrader       │
      │      Susan B. Champlin    │
      │         Nick Webb         │
      └───────────────────────────┘

                          [ ? ] [  OK  ]
```

MAGICorp

This chapter describes how to use the MAGICorp Service with Artline.

MAGICorp Service

You use the Service to send your Artline pictures for conversion to one of the following media:

- ❑ 35mm slides
- ❑ color photo prints
- ❑ color laser prints
- ❑ color transparencies

The MAGICorp Slide Service driver is a special device that you can install when you install Artline.

To use the MAGICorp Service you must have a MAGICorp site code (described below). You may send your Artline files by modem or by diskette. To send by modem, you must have a Hayes™-compatible modem installed on your system. When you send by diskette, the diskette is not returned.

Site Code

If you are using MAGICorp for the first time, you must obtain a 5-digit site code from MAGICorp to open a billing account.
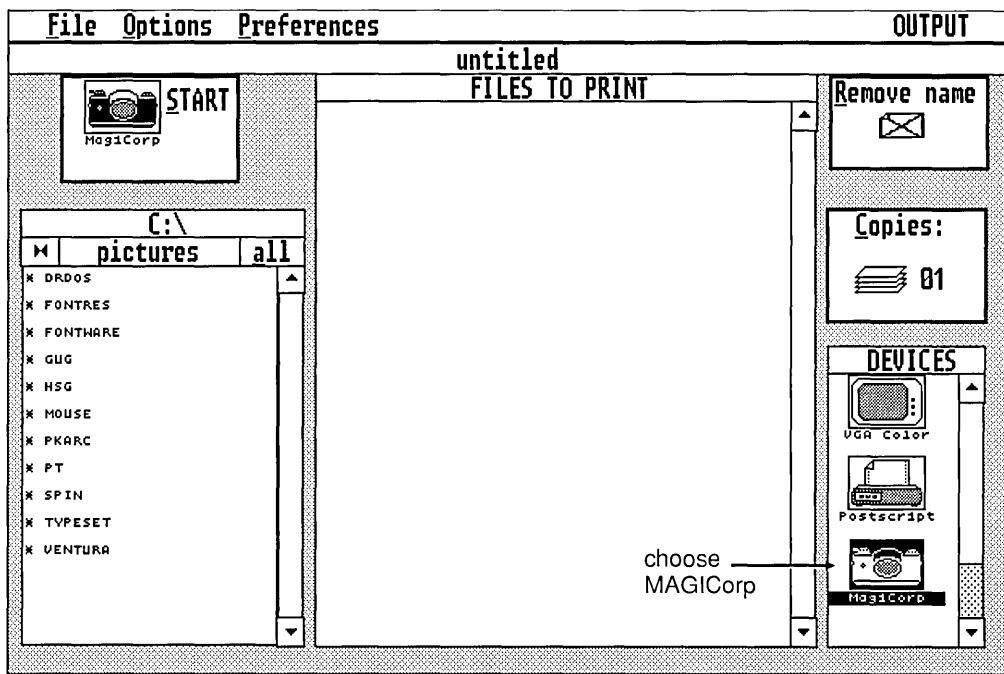

To obtain a MAGICorp site code:

❏ Call MAGICorp at one of the following numbers:

1-800-367-6244 (inside the continental U.S.)

1-914-592-1244 (outside the continental U.S.)

❏ Provide MAGICorp with the following information:

— Artline program name and version number;

— your mailing address (this cannot be a post office box).

— your billing address if it is different from your mailing address.

Your site code must be in the Customer Information dialog each time you send files to MAGICorp—you cannot send files without a valid site code. The Customer Information dialog is described in this chapter.

Using The MAGICorp Service

To send your Artline files to MAGICorp for conversion to slides, prints, or transparencies, perform these steps:

1. Prepare your Artline pictures: Although they do not have to be in a specific format (MAGICorp will automatically size pictures to the correct format), it is helpful if your files are sized for 35mm slides, even if you are ordering transparencies or prints.

2. Choose the **To Output** command from the Artline File menu. The Output screen appears.

```
 File  Options  Preferences                              OUTPUT
─────────────────────────────────────────────────────────────
                          untitled
                        FILES TO PRINT              Remove name
   ┌───────────┐                              ▲          ⊠
   │  [📷] START│
   │ MagiCorp  │
   └───────────┘
                                                    Copies:
   ┌─────────────────┐
   │       C:\       │                                ▤  01
   │ ⋈│ pictures │all│
   │ ✶ DRDOS      ▲ │
   │ ✶ FONTRES      │                            ┌──── DEVICES ────┐
   │ ✶ FONTWARE     │                            │  ┌──────┐    ▲ │
   │ ✶ GUG          │                            │  │ [📺] │    │ │
   │ ✶ HSG          │                            │  └──────┘      │
   │ ✶ MOUSE        │                            │  VGA Color     │
   │ ✶ PKARC        │                            │  ┌──────┐      │
   │ ✶ PT           │                            │  │ [💻] │      │
   │ ✶ SPIN         │                            │  └──────┘      │
   │ ✶ TYPESET      │               choose       │  Postscript    │
   │ ✶ VENTURA      │               MAGICorp ──── │  ┌──────┐      │
   │                │                            │  │ [📷] │      │
   │              ▼ │                            │  │MagiCorp      │
   └─────────────────┘                          └──────────────▼─┘
```
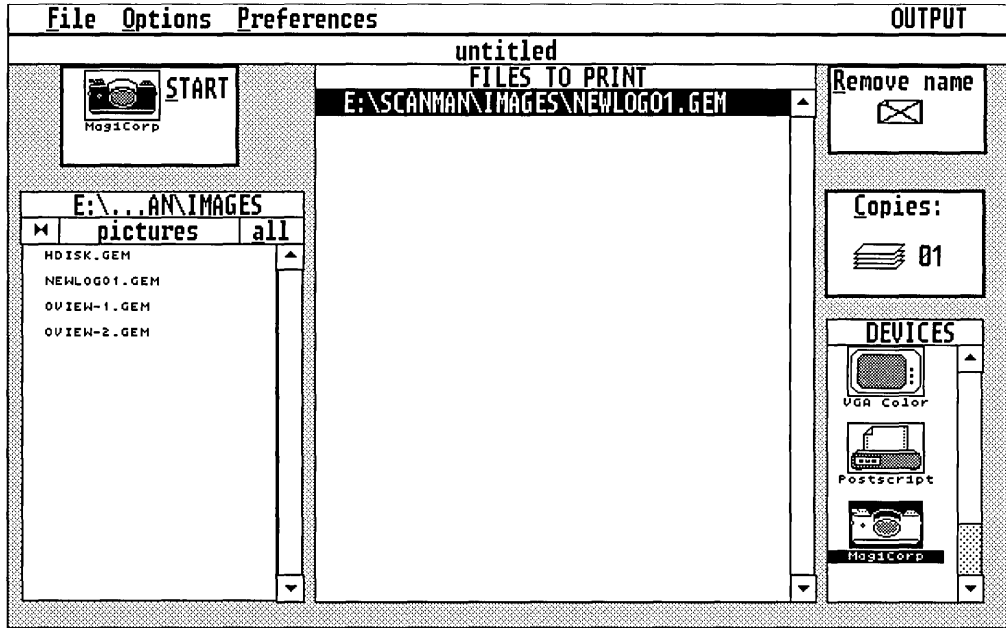
3 Click on the MAGICorp device in the DEVICES window. Then choose the Preferences menu to display the MAGICorp commands.

```
┌─────────────────────────────────┐
│ Preferences                     │
│  Customer info...               │
│  Media selection...             │
│  Global background...           │
│  Work order...                  │
│  Transmission...                │
│  Showstopper shadows...         │
└─────────────────────────────────┘
```
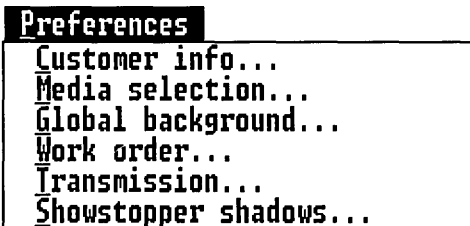
4 Choose each command in sequence. In the MAGICorp dialog corresponding to each command, fill in the information. The dialogs are described in this chapter.

To transmit to MAGICorp:

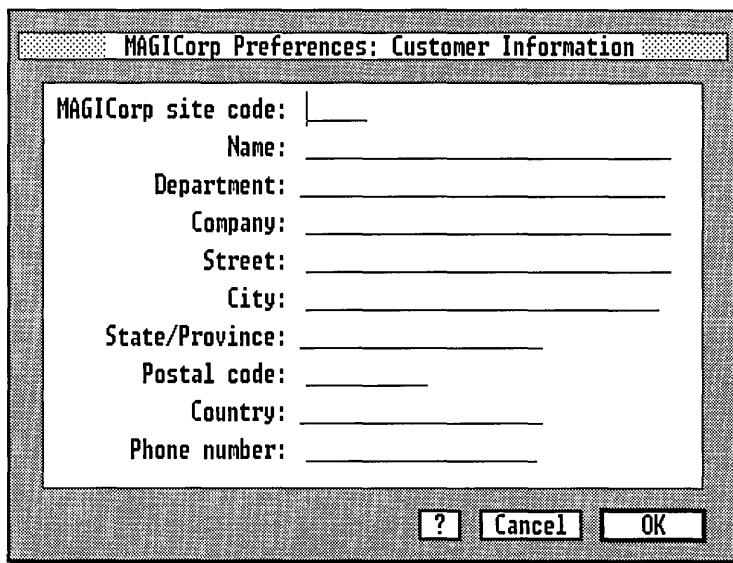1. Use the File Selector to choose the file or files you want to transmit. These appear in the FILES TO PRINT list.

2. Click on the MAGICorp device in the DEVICES window.

3. Click on the START button to transmit.

Customer Information Dialog

To display the Customer Information dialog, choose the
Customer Info command from the Preferences menu.

Complete all fields in the dialog.

```
┌─────────────────────────────────────────────────────┐
│        MAGICorp Preferences: Customer Information     │
│  ┌─────────────────────────────────────────────────┐ │
│  │ MAGICorp site code: |___                         │ │
│  │              Name:  _____  │ │
│  │        Department:  _____  │ │
│  │           Company:  _____  │ │
│  │            Street:  _____  │ │
│  │              City:  _____  │ │
│  │    State/Province:  _____         │ │
│  │       Postal code:  _____                   │ │
│  │           Country:  _____             │ │
│  │      Phone number:  _____             │ │
│  └─────────────────────────────────────────────────┘ │
│                          [ ? ] [ Cancel ]  [  OK  ]   │
└─────────────────────────────────────────────────────┘
```

MAGICorp site code

Type your five-digit site code.

Name

Type your name (you have 30 character spaces).

Department

Type your department name (you have 30 character
spaces). If you have room, add your department mail stop.

Company

Type the name of your company (you have 30 character
spaces).

Street, City, State/Province, Postal Code, Country

Type your shipping address—this cannot be a post office box (you have 30 character spaces).
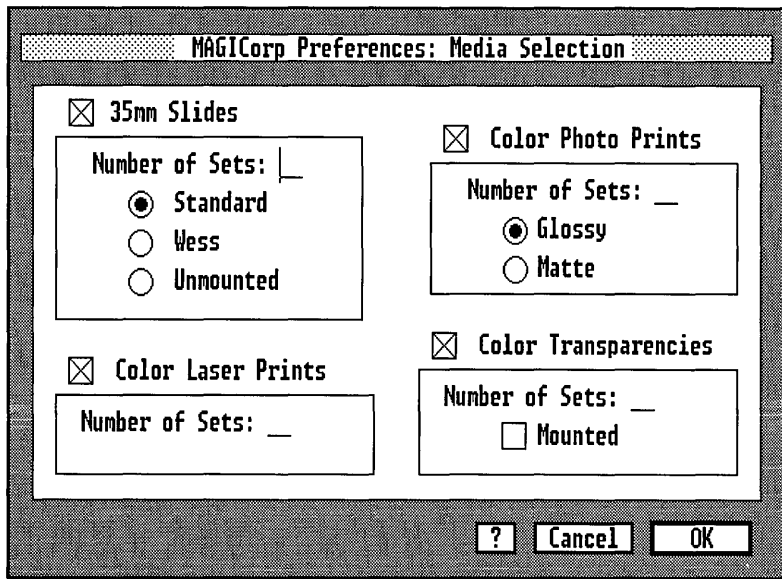
Phone Number

Type your complete phone number, including the area code.

To exit the Customer Information Dialog:

When you have completely filled in all fields in the dialog, click on OK to accept the settings and exit the dialog, or click on Cancel to discard the changes.

Media Selection Dialog

To display the Media Selection dialog, choose the **Media Selection** command from the Preferences menu.

```
┌──────────────────────────────────────────────────────────┐
│        MAGICorp Preferences: Media Selection             │
│  ┌────────────────────────────────────────────────────┐  │
│  │  ☒ 35mm Slides                                     │  │
│  │  ┌──────────────────┐    ☒ Color Photo Prints     │  │
│  │  │ Number of Sets: |_│   ┌──────────────────────┐  │  │
│  │  │  ● Standard       │   │ Number of Sets: __   │  │  │
│  │  │  ○ Wess           │   │  ● Glossy            │  │  │
│  │  │  ○ Unmounted      │   │  ○ Matte             │  │  │
│  │  └──────────────────┘   └──────────────────────┘  │  │
│  │                          ☒ Color Transparencies    │  │
│  │  ☒ Color Laser Prints    ┌──────────────────────┐  │  │
│  │  ┌──────────────────┐    │ Number of Sets: __   │  │  │
│  │  │ Number of Sets: _│    │  ☐ Mounted           │  │  │
│  │  └──────────────────┘    └──────────────────────┘  │  │
│  │                              [ ? ] [ Cancel ] [ OK ]│  │
│  └────────────────────────────────────────────────────┘  │
└──────────────────────────────────────────────────────────┘
```

Click on the option buttons to set one or more of the following options.

Number of Sets Fields

Note that each option has a Number of Sets field. Use this field to enter the number of sets of each option type you want to receive. A set is composed of the files you have selected to print in the Output FILES TO PRINT list.

35mm Slides

Choose this option to have 35mm slides developed from your files. Enter the number of slide sets you want to have developed in the Number of Sets field, then choose one of the following options.

Standard

The slides have a plastic, pin-registered slide mount. They fit 80- and 140-frame Carousels.

Wess

The slides have a plastic, pin-registered slide mount, plus heat-resistant glass plates covering the film to protect against warping, fingerprints, and dust. They fit 80-frame Carousels only.

Unmounted

This option provides unmounted 35mm slide film in a single strip, with eight frames per foot.

Color Photo Prints

Choose this option to receive color photo prints of your pictures. The prints are 8½" x 11¾". Enter the number of color print sets you want to have made in the Number of Sets field, then choose one of the following options.

Glossy

This option provides a shiny finish on heavy photographic stock.

Matte

This option provides a flat, non-reflecting finish on heavy photographic stock. Matte finish does not show finger-prints.

Color Laser Prints

Choose this option to receive color laser prints. The prints are 8.5" x 11" in full color on standard bond paper. Enter the number of color laser print sets you want to have made in the Number of Sets field.

Color Transparencies

Choose this option to receive color transparencies. The transparencies are 8.5" x 10". Enter the number of trans-parency sets you want in the Number of Sets field, then choose the following option if you want to have your trans-parencies mounted.

Mounted

Choose this option if you want to have your transparen-cies mounted in cardboard frames. Mounted transparen-cies are sturdier and easier to handle without getting fingerprints on the film.

To exit the Media Selection dialog:

Click on OK to accept the settings and exit the dialog, or click on Cancel to discard the changes.

Global Background Dialog

To display the Global Background dialog, choose the **Global Background** command from the Preferences menu.

```
MAGICorp Preferences: Global Background

⦿ Original          Solid or Color One    Color Two
◯ Solid             RGB Values (0 - 255)  RGB Values (0 - 255)
◯ Gradated
                    Red:    |__           Red:    __
Gradation style #:  __      Green:  __    Green:  __
                    Blue:   __            Blue:   __

                ☒ Showstopper™ Background

                Number: __-__    ☐ Tint

                              [ ? ] [ Cancel ] [  OK  ]
```
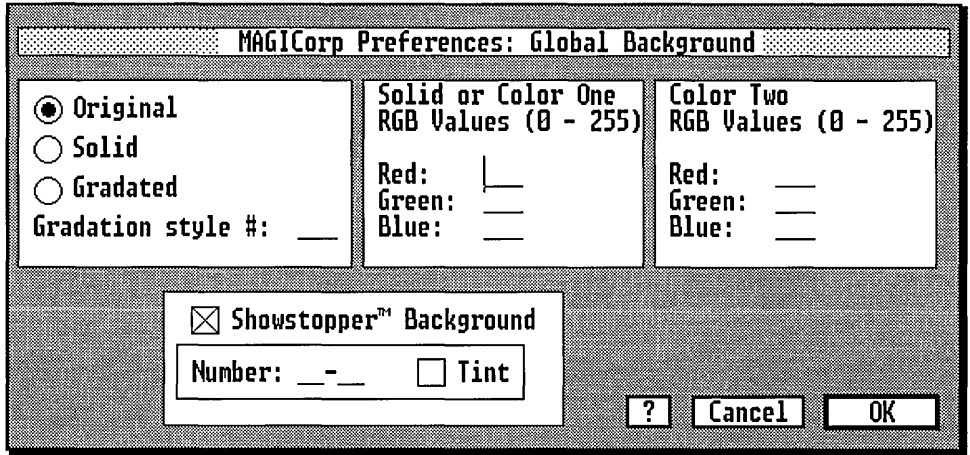
You use the dialog to define a background for all the pictures you send.

The MAGICorp global background overrides the backgrounds in all the files in Artline, unless you choose the Original option on this dialog.

You can set the following options on the dialog.

Original

Choose this option to use each file's background as it was originally created.

Solid

Choose this option to give your picture a solid background color. You must also specify the RGB values for the solid color. MAGICorp offers color palettes in each of the media it supports so that you can examine the appearance of various combination of RGB values.

Gradated

Choose this option to give all the pictures one of two gradated backgrounds. Click in the text field and then type the number for one of these styles:

Style #1—Top-bottom gradated

Choose this style to blend two colors from the top to the bottom of the picture. This is the default style.

Specify the RGB values for Color One, the color at the top of the picture.

Specify the RGB values for Color Two, the color at the bottom of the picture.

Style #2—Center-gradated

Choose this style to give all pictures a smooth, gradated background, blending two colors from a center horizontal line to the top and bottom of the picture.

Specify the RGB values for Color One, the color at the top and bottom of the picture.

Specify the RGB values for Color Two, the color at the middle of the picture.

Solid or Color One and Color Two RGB Values

You change the background color by entering RGB (red, green, and blue) values for the new color. RGB values represent the amounts of red, green, and blue in a color. Type a number from 0 to 999 for Color One and/or Color Two, depending on whether you choose a gradated background.

Showstopper Background

Choose this option to give all the pictures a showstopper photographic background. You select the background and its code from the Showstopper catalog, which is available from MAGICorp. There is an extra charge for using showstopper backgrounds.

To specify a Showstopper background:

1. Click on the Number field and type the four-character Showstopper code.

2. Click on the Tint box to indicate that you have chosen a tintable background (those backgrounds whose codes begin with "C"). The tint will be the color you specified for your Original, Solid, or Gradated color background. There is no effect on the background if you select the Tint box after you select a non-tintable background.

To exit the Global Background dialog:

Click on OK to accept the settings and exit the dialog, or click on Cancel to discard the changes.

Work Order Dialog

To display the Work Order dialog, choose the **Work Order** command from the Preferences menu.

```
┌─────────────────────────────────────────────────────────────┐
│            MAGICorp Preferences: Work Order                  │
│  ┌──────────────┐  ┌────────────────────────────────────┐    │
│  │ Turnaround   │  │ Presentation name: |_____        │    │
│  │ ○ Super Rush │  │ Comments                            │    │
│  │ ○ Rush       │  │ 1: _____  │    │
│  │ ● Normal     │  │ 2: _____  │    │
│  │ ○ Economy    │  │ 3:                                  │    │
│  │              │  └────────────────────────────────────┘    │
│  └──────────────┘  ┌────────────────────────────────────┐    │
│                    │ ⊠ Save job summary file (default is │    │
│                    │       MAGICORP.JOB)                 │    │
│                    │  ┌──────────────────────────────┐   │    │
│                    │  │ Job summary filename: _____  │   │    │
│                    │  └──────────────────────────────┘   │    │
│                    └────────────────────────────────────┘    │
│                                    [ ? ] [ Cancel ]  [ OK ]   │
└─────────────────────────────────────────────────────────────┘
```

You must fill in the information options and fields in this dialog before you transmit your files to MAGICorp. The

information you supply is stored in a job summary file that is transmitted when you send your files.

Turnaround

Use this option to indicate a turnaround time. There are four priorities:

Super Rush

Orders for fewer than 25 slides received by MAGICorp before 10:00 p.m. EST. will be shipped the same day for delivery the next business morning. You must call the Network Controller at 1-800-367-6244 by 7:00 p.m. EST to get an approval number for the order. Super Rush service may not always be available.

Rush

Orders for fewer than 50 slides, received between noon and 6:00 p.m. (your time zone), will be shipped the same day for delivery on the next business day. Rush service may be available after 5:00 p.m. For more than 50 slides or other media, consult the MAGICorp Network Controller at 1-800-367-6244 to confirm availability before transmitting your order.

Normal

Orders received before noon (your time zone) will be shipped the same day for delivery on the next business day.

Economy

Orders received before noon (your time zone) will be shipped the next day for delivery the following business day.

Orders received by MAGICorp on weekends and holidays will be treated as if they were received before noon on the next business day. If you order photographic prints or

transparencies, you will receive your order one day later than is the case for slides.

Presentation name

You can assign a name for the Artline files you are transmitting. The name can be up to 15 characters. This name does not have to match an Artline filename.

Comments

You can type up to three lines of notes in this field. Use the up or down cursor arrow keys to move from line to line. Use the comments lines to provide extra information about your order, such as your home phone number. MAGICorp cannot guarantee that instructions in the Comments field will be executed if you do not confirm them by calling the Network Controller.

Job Summary

Click on the "Save job summary file" option to save a file that lists all your choices in the Work Order dialog.

Job Summary Filename

Assign a filename for the job summary file (the default is MAGICORP.JOB). MAGICorp prints a summary sheet that lists your choices in the Work Order dialog. Keep this sheet in case you want to contact MAGICorp about your order.

Transmission Dialog

To display the Transmission dialog choose the **Transmission** command from the Preferences menu.

```
┌─────────────────────────────────────────────────────────────┐
│            MAGICorp Preferences: Transmission                │
│                                                              │
│  ◉ by    ┌──────────┐ ┌─────────┐ ┌────────────┐ ┌────────┐  │
│    Modem │ ◉ Auto   │ │ ◉ Tone  │ │ ○ 1200 Baud│ │◉ COM1  │  │
│          │ ○ Manual │ │ ○ Pulse │ │ ◉ 2400 Baud│ │○ COM2  │  │
│          └──────────┘ └─────────┘ └────────────┘ └────────┘  │
│                                                              │
│          Number to dial: 1-800-227-6244_____        │
│                                                              │
│  ○ by Disk                                                   │
│    Drive: [ A ]                                              │
│                                                              │
│                               [ ? ] [ Cancel ]  [   OK   ]   │
└─────────────────────────────────────────────────────────────┘
```
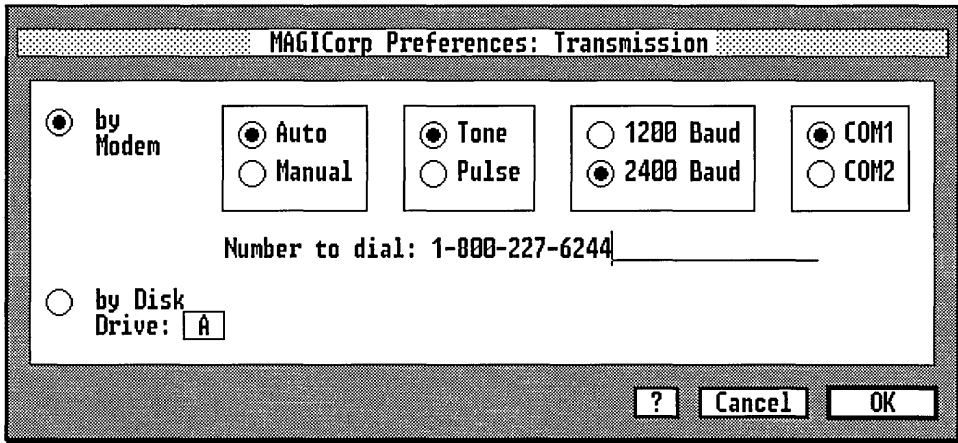
You must fill out this dialog before you can transmit files to MAGICorp. You can either transmit your files by modem over the telephone lines (toll-free) or send the files on a disk. If you send by disk, the disk is not returned.

By Modem

Choose this option to send by modem. You must then set the modem options:

Auto or Manual

These options specify whether you dial the telephone automatically or manually. If you choose Auto, the phone number you specify in the Number to dial field is dialed automatically by the modem and the MAGICorp software. If you choose Manual, you must dial the phone number.

Tone or Pulse

Choose one of these options to specify whether you have a touchtone or pulse telephone.

1200 Baud or 2400 Baud

Choose one of these options to specify the modem transmission baud rate.

Com 1 or Com 2

Choose one of these options to specify the computer port to which your modem is connected.

Number to dial

Type MAGICorp's modem phone number; this is the phone number your modem will dial. Parentheses or dashes are optional. If necessary, type any prefix necessary to obtain an outside line from your office. Then type:

1-800-227-6244 (inside the continental United States)

1-914-592-1053 (outside the continental United States)

By Disk

Choose this option to send your files to a disk. You can send this disk directly to MAGICorp or take it to another computer that has a modem and on which Artline is installed.

Drive

To specify the disk drive, click on the Drive box. If you do not want to send the files to a disk in Drive A (the default), press **Shift-Delete** or the **Backspace** key to clear the field, then type the letter of the drive to which you want to send your files.

Send your disks to this address:

MAGICorp
50 Executive Blvd.
Elmsford, N.Y. 10523
ATTN: Network Controller

(Disks cannot be returned)

To exit the Transmission dialog:

> Click on OK to accept the settings and exit the dialog, or
> click on Cancel to discard the changes.

Showstopper Shadows Dialog

To display the Showstopper Shadows dialog, choose the
Showstopper Shadows command from the Preferences
menu.

```
╔══════════════════════════════════════════════════════════╗
║        MAGICorp Preferences: Showstopper™ Shadows        ║
╟──────────────────────────────────────────────────────────╢
║  ⊠  Enable shadows                                        ║
║  Direction              Distance  Darkness  Sharpness     ║
║  ○ 1: Top right       Min 1: ◉ *    ○         ○           ║
║  ◉ 2: Bottom right*       2: ○      ○         ○           ║
║  ○ 3: Bottom left         3: ○      ○         ○           ║
║  ○ 4: Top left            4: ○      ○ *       ○ *         ║
║                       Max 5: ○      ◉ *       ◉ *         ║
║              *Default values                              ║
║                                                           ║
║                            [ ? ] [ Cancel ]  [   OK   ]   ║
╚══════════════════════════════════════════════════════════╝
```
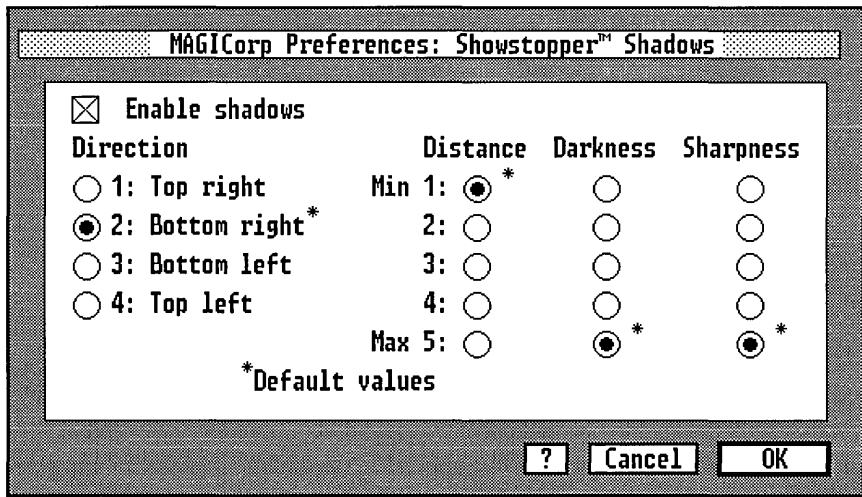
You use the dialog to enable drop shadows for your pic-
tures. Default values are marked with an asterisk.

To enable Showstopper shadows:

1 Click on the Enable shadows button.

2 Click on one of the Direction buttons to indicate the direction in which to cast the shadow.

3 Click on a Distance button to indicate the desired distance between your picture and its shadow.

This option specifies the distance the shadow is cast. The greater the distance setting, the greater the space appears between your design elements and the background.

4 Click on a Darkness button to indicate the desired darkness value.

This option specifies the transparency of the shadow. Shadows can be opaque or sheer (allowing background patterns to show through). The minimum setting causes the shadow to be nearly transparent; the maximum setting causes it to be opaque.

5 Click on a Sharpness button to indicate the desired sharpness value.

This option specifies the distinctness of the shadow. Minimum sharpness causes the shadows to be fuzzy and diffused; the maximum setting creates sharp, crisp shadows.

To exit the Showstopper Shadows dialog:

Click on OK to accept the settings and exit the dialog, or click on Cancel to discard the changes.

Artline Character Set
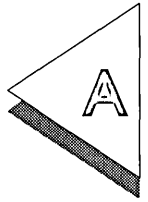
The table on the following pages lists the characters available in the Artline International Character Set. To enter characters that are not available directly from the keyboard into the Create Text Element dialog, hold down the **Alt** key as you enter the ASCII decimal value on the keyboard's numeric keypad. For example, the paragraph symbol (¶) is **Alt-188**.

NOTE: You cannot display Symbol and Wombat characters in the Create Text Element dialog; instead, you will see the corresponding *international* character. After you exit the dialog, the correct character appears on the drawing surface.

Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats
32				60	<	<	♣	88	X	Ξ	✳	116	t	τ	▼
33	!	!	✂	61	=	=	†	89	Y	Ψ	✳	117	u	υ	◆
34	"	∀	✄	62	>	>	✝	90	Z	Z	✳	118	v	ϖ	❖
35	#	#	✂	63	?	?	✝	91	[	[	✳	119	w	ω	◗
36	$	∃	✄	64	@	≅	⊞	92	\	∴	✳	120	x	ξ	❘
37	%	%	☎	65	A	A	✿	93	]	]	✳	121	y	ψ	▮
38	&	&	©	66	B	B	✢	94	^	⊥	✣	122	z	ζ	▪
39	'	∋	✆	67	C	X	✣	95	_		✿	123	{	{	'
40	(	(	✈	68	D	Δ	✤	96	`	‾	✿	124	|	|	'
41	)	)	✉	69	E	E	✤	97	a	α	✿	125	}	}	"
42	*	*	☛	70	F	Φ	◆	98	b	β	◉	126	-	~	"
43	+	+	☞	71	G	Γ	◇	99	c	χ	✳	127			
44	,	,	✌	72	H	H	★	100	d	δ	✳	128	Ç		
45	-	-	✍	73	I	I	☆	101	e	ε	✳	129	ü		(
46	.	.	✎	74	J	ϑ	◉	102	f	φ	✳	130	é		)
47	/	/	✏	75	K	K	★	103	g	γ	✳	131	â		(
48	0	0	✐	76	L	Λ	★	104	h	η	✳	132	ä		)
49	1	1	👓	77	M	M	★	105	i	ι	✳	133	à		(
50	2	2	✇	78	N	N	★	106	j	φ	✳	134	å		)
51	3	3	✓	79	O	O	★	107	k	κ	✳	135	ç		‹
52	4	4	✔	80	P	Π	☆	108	l	λ	●	136	è		›
53	5	5	✕	81	Q	Θ	✳	109	m	μ	○	137	ë		(
54	6	6	✖	82	R	P	✴	110	n	ν	■	138	è		)
55	7	7	✗	83	S	Σ	✳	111	o	o	□	139	ï		(
56	8	8	✘	84	T	T	✳	112	p	π	□	140	î		)
57	9	9	✚	85	U	Y	✳	113	q	θ	□	141	ì		{
58	:	:	✚	86	V	ς	✳	114	r	ρ	□	142	Ä		}
59	;	;	✚	87	W	Ω	✳	115	s	σ	▲	143	Å		

Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats	Decimal	International	Symbol	Wombats
144	É			172	›	←	①	200	Å	∪	⑨	228		™	➤
145	æ			173	¡	↑	②	201	È	⊃	⑩	229		Σ	➡
146	Æ			174	«	→	③	202	Ê	⊇	❶	230			➡
147	ô			175	»	↓	④	203	Ë	⊄	❷	231		(	◆
148	ö			176	ã	°	⑤	204	Ì	⊂	❸	232		(	➡
149	ò			177	õ	±	⑥	205	Í	⊆	❹	233		|	⇨
150	û			178	¥	″	⑦	206	Î	∈	❺	234		|	⇨
151	ù			179	¢	≥	⑧	207	Ï	∉	❻	235		⌊	⇦
152	ÿ			180	œ	×	⑨	208	Ò	∠	❼	236		{	⇦
153	Ö			181	Œ	∝	⑩	209	Ó	∇	❽	237		{	⇨
154	Ü			182	À	∂	❶	210	Ô	®	❾	238		{	⇨
155	ø			183	Ã	•	❷	211	Š	©	❿	239		|	⇨
156	£			184	Õ	÷	❸	212	š	™	→	240			
157	Ø			185	§	≠	❹	213	Ù	∏	→	241		)	⇨
158	¤			186	‡	≡	❺	214	Ú	√	↔	242		)	⊃
159	ƒ			187	†	≈	❻	215	Û	·	↕	243		(	➤➤
160	á			188	¶	…	❼	216	Ÿ	¬	↘	244		|	➘
161	í	Υ	♉	189	©	|	❽	217	ß	∧	→	245		)	➤➤
162	ó	′	☻	190	®	—	❾	218	ß	∨	➚	246			➚
163	ú	≤	☻	191	™	↵	❿	219		⇔	→	247			➘
164	ñ	/	♥	192	„	ℵ	①	220		⇐	➡	248			➤➤
165	Ñ	∞	♠	193	…	ℑ	②	221		⇑	→	249			➚
166	ª	ƒ	✿	194	‰	ℜ	③	222		⇒	→	250		)	➙
167	º	♣	✿	195	•	℘	④	223		⇓	➡	251		)	➙
168	¿	♦	♣	196	-	⊗	⑤	224		◊	➡	252		}	➤➤
169	"	♥	♦	197	—	⊕	⑥	225		⟨	➡	253		}	➤➤
170	"	♠	♥	198	˚	Ø	⑦	226		®	➤	254		)	⇛
171	‹	↔	♠	199	Á	∩	⑧	227		©	➤	255			

CNF Files

For certain printers, the GEM 4.0 printer driver reads a configuration file (.CNF) that contains information the driver uses to configure a specific printer. You can alter a .CNF file to change the operation of your printer. For example, if you need to change the margins of the printable area for your PostScript printer, or if you want to add new PostScript fonts, you can change your .CNF file to achieve this result.

A unique .CNF file is provided for each of these printer types:

❏ the Hewlett-Packard® soft font printers;
❏ the Hewlett-Packard Painjet XL;
❏ all PostScript printers.

The .CNF files are ASCII files that have the filename form **ddd.CNF**. The letters **ddd** are a driver identification that is taken from the driver's filename, which uses the form **PDddd9.fff**. The letters **fff** are a font extension such as ELQ or B30. Entries in a .CNF file have this format:

KEYWORD (PARM1,PARM2,PARM3,...)

KEYWORD describes the function to be adjusted or included, and PARM1 PARM2 PARM3... are parameters that modify or describe KEYWORD. Parameters can be separated by commas.

Modifying CNF files

To modify a .CNF file:

1. Use a word processing program, or a line editor that can save pure ASCII files, to open the .CNF file you want to change. For example, if you are using a monochrome PostScript printer, you would open PSMONO.CNF.

2. Type the parameters for each function you want to alter or add. The functions and parameters are described in the following pages. Do not place any extra spaces within the .CNF file.

3. Save the .CNF file as an ASCII file with its existing filename.

Hewlett-Packard Soft Font Drivers

The .CNF file for a Hewlett-Packard soft font driver has this format:

DOWNPATH (DIR)
PERMFONT (ID FILENAME)
FONTSPEC (FILENAME ID SIZE ATTR MAP)

DOWNPATH

DOWNPATH identifies the directory that contains .HFI files and soft font files. The parameter is:

DIR   the path name of the directory. If you give a relative path, it is taken as relative to the directory containing the driver. The default is ".", the directory containing the driver.

PERMFONT

PERMFONT indicates that the soft font has already been downloaded to the printer. Digital Research does not provide a separate downloading program. When the PERMFONT function is enabled, the driver examines the soft font file for character width information but does not send the font to the printer. The parameters are:

ID   the unique soft font identifier number, which you obtain from the downloading program.

FILENAME   the soft font filename.

These parameters have no default values.

FONTSPEC

FONTSPEC provides an alternative to .HFI files. It gives the driver information about a soft font that is available for downloading. The parameters are:

FILENAME

	the soft font filename (which requires no extension—the driver will use the extensions .SFP and .SFL).
ID	the GEM font identifier.
SIZE	the font size in points.
ATTR = 0	the font attribute for Normal.
ATTR = 1	the font attribute for Bold.
ATTR = 4	the font attribute for Italic.
ATTR = 5	the font attribute for Bold Italic.
MAP = 0	remaps the character set to the HP character set.
MAP = 1	remaps the character set to the GEM/Ventura character set.

PostScript Drivers

The .CNF file for a PostScript driver has this format:

MARGINS (XL XR YT YB)
PFI (ON_OFF)
PSFONTS (DIR)
FONT (NAME ID ATTR MAP RESFLAG)

MARGINS

MARGINS sets margins that limit the graphics output to the printable area. In the provided PSCOLOR.CNF file, the left and right margins are 0.25", with 1" for the top and bottom margins. For the PSMONO.CNF file, the left, right, top, and bottom margins are 0.25". Check the manual for your your printer to determine whether it has these margins. If the margins are different, you should edit the .CNF file to set the desired margins.

The parameters are:

XL   sets the left margin in device units.

XR   sets the right margin in device units.

The default value for XL and XR (for 0.25") is 75 in device units.

YT   sets the top margin in device units.

YB   sets the bottom margin in device units.

PFI

PFI indicates whether a PostScript Font Information (.PFI) file search is requested. The .PFI files should be located in the directory that contains the downloadable PostScript ASCII or *binary* format fonts.

The parameters are:

ON_OFF = O disables the driver search for .PFI files (the default).

ON_OFF = 1 enables the search.

PSFONTS

PSFONTS identifies the directory that contains the .PFI file and associated PostScript downloadable font files. The parameter is:

DIR the path name of the directory. If you give a relative path, it is taken as relative to the directory containing the driver. The default is ".", the directory containing the driver.

FONT

FONT provides an alternative to supplying a .PFI file for the PostScript font.

Using FONT to Add PostScript Fonts

The PostScript .CNF file has information for the standard 35 resident PostScript fonts. If you add PostScript fonts, you must alter your PostScript .CNF file. For each new PostScript font you add to Artline, you must provide a new FONT line in the .CNF file.

For FONT, each line in the .CNF file has this format:

font(NAME, ID, ATTR, MAP, RESFLAG)

For example, if you installed the Adobe Type 1 font Galliard-Bold, you would add the following line to the .CNF file:

font(Galliard-Bold,32,B,TEXT,DOWN:GLB.PFB)

The parameters are:

NAME	the font's PostScript name.
ID	the font identification number (see Appendix C for a list of font ID numbers).
ATTR = M	the font attribute for Normal.
ATTR = B	the font attribute for Bold.
ATTR = I	the font attribute for Italic.
ATTR = BI	the font attribute for Bold Italic.
MAP = TEXT	enables the re-encoding of the character set.
MAP = PI	disables the re-encoding of the character set (for symbol fonts).
RESFLAG = RES	shows that the font is resident.
RESFLAG = DOWN:filename	
	indicates that the font filename must be downloaded.

Font ID Numbers
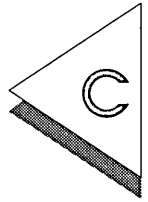
THIS table lists the font identifications (IDs) for many common typefaces. The typeface names are listed alphabetically.

Typeface	Font ID	Typeface	Font ID
American Classic	47	Brush	41
American Classic Extra Bold	48	Century Old Style	38
American Typewriter	100	Century II	43
Antique Olive	61	Century II Light	49
Antique Olive Compact	70	Cheltenham	39
Avant Garde (Book/Demi)	51	Courier	102
Avant Garde (Medium/Bold)	81	Commercial Script	3
Baskerville	33	Cooper Black	8
Bauhaus	66	Dom Casual/Dom Diagonal	75
Benguiat (Book/Bold)	26	Dutch (serifed)	14
Bitstream Charter	9	Fixed Pitch (monospaced)	1
Blackletter (Cloister Black)	10	Franklin Gothic	56
Bodoni (Medium/Bold)	36	Franklin Gothic Heavy	57
Bodoni Poster	37	Friz Quadrata	28
Bookman (Light/Demi)	23	Futura (Medium/Bold)	62
Broadway	80	Futura Book	83

Typeface	Font ID	Typeface	Font ID
Futura Extra Black	85	Lucida Serifed	45
Futura Heavy	84	Machine	101
Futura Light	82	Manhattan	77
Futura Medium Condensed	86	Melior	31
Galliard	32	New Century Schoolbook	20
Garamond (Light/Bold)	22	Old English	4
Gill Sans	63	Optima	52
Gill Sans Extra Bold	64	Optima Outline	78
Globe Gothic Outline	76	Orator	104
Glypha	27	Palatino	21
Goudy	34	Park Avenue/Coronet	35
Helvetica/Triumvirate	67	Prestige Elite	103
Helvetica Black	55	Raphael	5
Helvetica Condensed	59	Sonata (Music)	130
Helvetica Condensed Black	60	Souvenir (Light/Demi)	25
Helvetica Condensed Light	58	Stunt/Revival Roman	7
Helvetica Light	54	Swiss (san serif)	2
Helvetica Narrow	50	Symbol (Math/Greek)	128
IBM Keycap	131	Times Roman	15
Korinna	53	Trump	30
Letter Gothic	105	CG Trade Condensed	72
Lubalin Graph (Book/Demi)	24	CG Trade Extra Condensed	73
Lubalin Graph Extra Bold	42	CG Trade Extended	74
Lucida Monospaced	106	Uncial	6
Lucida San Serif	69	Uncle Sam Open	79

Typeface	Font ID	Typeface	Font ID
Univers	65		
Univers Extra Bold	71		
Zapf Chancery	29		
Zapf Dingbats	129		

NOTE: At the time of printing, these typefaces were assigned font IDs. If you receive an updated list from Xerox Ventura Publisher, you might want to add those identification numbers to this table.

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