

Chapter 18 Print Manager

The Print Manager has been modified for the Universe system disk in a few ways. First, we have removed the `prChoosePrinter` call's functionality, and we have added some new calls that allow documents to have names associated with them for the Appletalk printers. A new structure is being used for any new printer or port drivers which can support new calls. These drivers will contain a two word header with the first word being 0 followed by a word count of the number of calls supported. This is needed for compatibility with old drivers.

When printing in draft mode to an ImageWriter, ImageWriter LQ, or Epson printer, the driver translates the QuickDraw II calls into the appropriate command sequences and sends them immediately to the printer. The driver does not keep any record of these QuickDraw II calls. Therefore, if the user requests multiple copies of a document printed in draft mode, the application will need to enter the printing loop for each copy. The draft mode flag and the number of copies can be found in the Job subrecord of the print record.

Changes in Behavior

Since users should always use the control panel desk accessory to choose new printers from now on, we have modified the operation of the `prChoosePrinter` call. Now when this call is made an alert will appear that informs the user to select new printers from the control panel. This is being added for compatibility reasons, future software should never make the `prChoosePrinter` call.

New Calls

`prSetDocName`

call \$3713

Inputs

`DocNamePtr` :LONG Pointer to document name string (Pascal string)

Outputs

none

This routine sets the document name for use with Appletalk printers. This name is used when connecting to printers and spoolers so that the destination printer will properly report the name.

`prGetDocName`

call \$3613

Inputs

`Space` :LONG room for result

Outputs

`DocNamePtr` :LONG Pointer to document name (Pascal string)

This routine returns a pointer to the current document name. NOTE: This is for your information only, you should only use `prSetDocName` to change the document name.

`prGetPgOrientation`

call \$3813

Inputs

`Space` :WORD room for result
`PrRecordHdl` :LONG handle to print record

Outputs

Orientation :WORD integer representing orientation

This routine returns the orientation currently selected by the user. Valid values are:

- 0 = portrait
- 1 = landscape

PrGetPrinterSpecs

call \$1813

Inputs

Space :WORD room for results
Space :WORD room for results

Outputs

PrinterType :WORD identifies the type of printer being used
Characteristics :WORD specifies particular characteristics of the current printer

This routine returns information about the currently selected printer, the printer type is defined as follows:

- 0 = undefined
- 1 = ImageWriter I or II
- 2 = ImageWriter LQ
- 3 = LaserWriter family (non-plus, plus & II)
- 4 = Epson

The characteristics word contains information about features the particular model of the printer has. Currently the only characteristics that are defined is color. The format of the characteristics word is:

- Bit 15 - 2: Reserved
- 1 - 0: 0 = can't determine
- 1 = black/white only
- 2 = capable of color

New LaserWriter Driver features:

The LaserWriter driver will now use any PostScript fonts that has been downloaded to the printer, from a Macintosh or PC.

Chapter 19 QuickDraw II

Quickdraw has had two changes made to it so that it will now function faster. We have improved the low level pattern drawing routines so that objects drawn faster. We have also added support for 16x8 patterns in 640 mode.

Since quickdraw must be passed 32 bytes for a pattern, and 640 mode only used to use 16 bytes of them, we decided to allow larger pattern definitions in 640 mode to take advantage of all 32 bytes. To utilize the larger pattern sizes in 640 mode, set the high bit of the ArcRot word in the grafport, quickdraw will then use all 32 bits of the passed pattern. Since openPort and InitPort clear this bit, existing applications should not have any behavior changes.