

NAME

unixifyps – put PostScript files into editable UNIX form

SYNOPSIS

unixifyps [*file*]

DESCRIPTION

unixifyps converts PostScript documents distributed by various third party supplier for the Macintosh and PC platforms into a form suitable for working with on a UNIX system.

This means that any initial binary junk to make so-called resources is eliminated and the Macintosh or PC kind of line delimiters are changed to the UNIX kind. Furthermore, in so far as possible, the PostScript text is broken into editable pieces, i.e., no line is longer than 80 characters.

If no file is specified, then the document is read from the standard input.

The document is read from the input file, named by *file*.

What happens is described as if the input were modified even though, in fact, the change is in what is sent to the standard output.

Any binary junk at the beginning of the file up to but not including the first %! is deleted.

Any sequence of only ^Ms (\r) and ^Js (\n) is converted into a single ^J. Thus, besides converting from the Macintosh and PC ways of delimiting lines to the UNIX way, *unixifyps* eliminates excess lines.

Each image, which is a string of hexadecimal digits surrounded by < and > is made to begin on a new line and is split into chunks, all but the last of which is of length 72. The text after the end of the image comes after a new line. The syntax of images specifies that besides white space, only the digits 0-9 and the letters A-F and a-f are legal inside the image and that white space is not significant. The program does not check that only legal characters are inside the image, but it does take advantage of nonsignificance of white space to split images into chunks that fit on a single editable line.

Each / for defining a PostScript variable name is separated from its predecessor by some white space or line break.

Each string, which is a string of characters surround by (and) and in which an interior) is escaped with a \, is made to begin on a new line and if it is longer than 72 characters, the text following the closed parenthesis at the end of the string also is made to begin on a new line.

Finally, except inside a string, a space or tab that occurs past position 72 of an output line is converted into a ^J to help break the text into editable lines.

INPUT

The input is supposed to be legal PostScript. However, except to be able to do its function, *unixifyps* does not check the validity of the input. It assumes that at some point in the file is %! and does not produce any output until it sees it. It assumes that once opened, strings and images will be terminated and if they are not, all processing since the open will be as for the object that was opened.

OUTPUT

The output should be a purely ASCII PostScript file. In fact, all purely ASCII text starting with the first %! is sent to the output.

BUGS

There is no guarantee that each output line will be shorter than 80 characters, in particular, because there may be non-breakable strings whose length is greater than 80.