

**NAME**

**hp** – handle special functions of HP 2640 terminal

**SYNOPSIS**

**hp** [**-e**] [**-m**]

**DESCRIPTION**

*Hp* supports special functions of the Hewlett-Packard 2640 family of terminals, with the primary purpose of producing accurate representations of most *nroff*(I) output. Typical uses are:

`nroff -h files ... | hp`                      or:                      `nroff -h -s files ... | hp`

In the latter case, *nroff* will stop at the beginning of each page including the first and wait for you to hit LINE FEED to initiate output. Regardless of the hardware options on your terminal, *hp* does sensible things with underlining and reverse line feeds. If the terminal has the display enhancements feature, subscripts and superscripts can be indicated in distinct ways. If it has the mathematical-symbol option, you can see Greek and other special characters.

The flags are as follows:

- e** it is assumed that your terminal has the display enhancements feature, and so maximal use is made of the added display modes. Overstruck characters are presented in the Underline mode. Superscripts are shown in Half-Bright mode, and subscripts in Half-Bright, Underlined mode. If this flag is omitted, *hp* assumes that your terminal lacks the display enhancements feature. In this case, all overstruck characters, subscripts, and superscripts are displayed in Inverse Video mode, i.e., dark on light, rather than the usual light on dark.
- m** requests minimization of output by removal of newlines. Any contiguous sequence of 3 or more newlines is converted into a sequence of only 2 newlines; i.e., any number of successive blank lines produces only a single blank output line. This allows you to retain more actual text on the screen.

With regard to Greek and other scientific characters, *hp* provides the same set as does *gsi*(I), except that "not" is approximated by a right arrow, and only the top half of the integral sign is shown. The display is adequate for examining output from *neqn*(I).

**DIAGNOSTICS**

"line too long"    if representation of a line exceeds 300 characters, which would occur, for instance, if you underlined every other character in an 80-character line containing many Greek characters.

**EXIT CODES**

- 0 – normal
- 1 – for any error

**SEE ALSO**

*gsi*(I), *HP2640*(VII), *neqn*(I), *nroff*(I)

**BUGS**

Note that the second or later characters in an overstriking sequence are always assumed to be underlines. For example, a bullet made from lower-case "o" overstruck with "+" appears as an "o" that is either underlined or shown in Inverse Video. Although some terminals do provide numerical superscript characters, no effort is made to display them. The programming is ugly, and most terminals do not possess this feature.