NAME

sed - manual page for sed version 4.1.4

SYNOPSIS

k:Textproc4.1.4-4.1.4.exe [OPTION]... {script-only-if-no-other-script} [input-file]...

DESCRIPTION

Sed is a stream editor. A stream editor is used to perform basic text transformations on an input stream (a file or input from a pipeline). While in some ways similar to an editor which permits scripted edits (such as ed), sed works by making only one pass over the input(s), and is consequently more efficient. But it is sed's ability to filter text in a pipeline which particularly distinguishes it from other types of editors.

-n, --quiet, --silent

suppress automatic printing of pattern space

-e script, --expression=script

add the script to the commands to be executed

-f script-file, **--file**=script-file

add the contents of script-file to the commands to be executed

-i[SUFFIX], --in-place[=SUFFIX]

edit files in place (makes backup if extension supplied)

-l N, −-line-length=N

specify the desired line-wrap length for the '1' command

--posix

disable all GNU extensions.

-r, --regexp-extended

use extended regular expressions in the script.

-s, --separate

consider files as separate rather than as a single continuous long stream.

-u, --unbuffered

load minimal amounts of data from the input files and flush the output buffers more often

- --help display this help and exit
- --version

output version information and exit

-B, --binary

use binary read and writes.

If no -e, --expression, -f, or --file option is given, then the first non-option argument is taken as the sed script to interpret. All remaining arguments are names of input files; if no input files are specified, then the standard input is read.

E-mail bug reports to: bonzini@gnu.org . Be sure to include the word "sed" somewhere in the "Subject:" field.

COMMAND SYNOPSIS

This is just a brief synopsis of *sed* commands to serve as a reminder to those who already know *sed*; other documentation (such as the texinfo document) must be consulted for fuller descriptions.

Zero-address "commands"

: label Label for **b** and **t** commands.

#comment

The comment extends until the next newline (or the end of a -e script fragment).

} The closing bracket of a { } block.

Zero- or One- address commands

= Print the current line number.

a\

text Append text, which has each embedded newline preceded by a backslash.

i∖

text Insert text, which has each embedded newline preceded by a backslash.

- q Immediately quit the *sed* script without processing any more input, except that if auto-print is not disabled the current pattern space will be printed.
- Q Immediately quit the *sed* script without processing any more input.

r filename

Append text read from *filename*.

R filename

Append a line read from filename.

Commands which accept address ranges

Begin a block of commands (end with a }).

b label Branch to label; if label is omitted, branch to end of script.

t *label* If a s/// has done a successful substitution since the last input line was read and since the last t or T command, then branch to *label*; if *label* is omitted, branch to end of script.

T *label* If no s/// has done a successful substitution since the last input line was read and since the last t or T command, then branch to *label*; if *label* is omitted, branch to end of script.

c\

text Replace the selected lines with *text*, which has each embedded newline preceded by a back-slash.

- d Delete pattern space. Start next cycle.
- D Delete up to the first embedded newline in the pattern space. Start next cycle, but skip reading from the input if there is still data in the pattern space.
- h H Copy/append pattern space to hold space.
- g G Copy/append hold space to pattern space.
- x Exchange the contents of the hold and pattern spaces.
- 1 List out the current line in a "visually unambiguous" form.
- n N Read/append the next line of input into the pattern space.
- Print the current pattern space.
- P Print up to the first embedded newline of the current pattern space.

s/regexp/replacement/

Attempt to match regexp against the pattern space. If successful, replace that portion matched with replacement. The replacement may contain the special character & to refer to that portion of the pattern space which matched, and the special escapes \1 through \9 to refer to the corresponding matching sub-expressions in the regexp.

w filename

Write the current pattern space to *filename*.

W filename

Write the first line of the current pattern space to filename.

v/source/dest/

Transliterate the characters in the pattern space which appear in *source* to the corresponding character in *dest*.

Addresses

Sed commands can be given with no addresses, in which case the command will be executed for all input lines; with one address, in which case the command will only be executed for input lines which match that address; or with two addresses, in which case the command will be executed for all input lines which match the inclusive range of lines starting from the first address and continuing to the second address. Three things to note about address ranges: the syntax is addr1,addr2 (i.e., the addresses are separated by a comma); the line which addr1 matched will always be accepted, even if addr2 selects an earlier line; and if addr2 is a regexp, it will not be tested against the line that addr1 matched.

After the address (or address-range), and before the command, a ! may be inserted, which specifies that the command shall only be executed if the address (or address-range) does **not** match.

The following address types are supported:

number Match only the specified line number.

first~step

Match every *step*'th line starting with line *first*. For example, "sed -n 1~2p" will print all the odd-numbered lines in the input stream, and the address 2~5 will match every fifth line, starting with the second. (This is an extension.)

\$ Match the last line.

/regexp/

Match lines matching the regular expression *regexp*.

\cregexpc

Match lines matching the regular expression *regexp*. The **c** may be any character.

GNU sed also supports some special 2-address forms:

0, addr2

Start out in "matched first address" state, until *addr2* is found. This is similar to 1,*addr2*, except that if *addr2* matches the very first line of input the 0,*addr2* form will be at the end of its range, whereas the 1,*addr2* form will still be at the beginning of its range.

addr1,+N

Will match addr1 and the N lines following addr1.

addr1,~N

Will match addr1 and the lines following addr1 until the next line whose input line number is a multiple of N.

REGULAR EXPRESSIONS

POSIX.2 BREs *should* be supported, but they aren't completely because of performance problems. The \n sequence in a regular expression matches the newline character, and similarly for \a , \t , and other sequences.

BUGS

E-mail bug reports to **bonzini@gnu.org**. Be sure to include the word "sed" somewhere in the "Subject:" field. Also, please include the output of "sed --version" in the body of your report if at all possible.

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SEE ALSO

awk(1), **ed**(1), **grep**(1), **tr**(1), **perlre**(1), sed.info, any of various books on *sed*, the *sed* FAQ (http://sed.sf.net/grabbag/tutorials/sedfaq.html), http://sed.sf.net/grabbag/.

The full documentation for **sed** is maintained as a Texinfo manual. If the **info** and **sed** programs are properly installed at your site, the command

info sed

should give you access to the complete manual.