

NAME

roff – format text

SYNOPSIS

roff [*+n*] [*-n*] [*-s*] [*-h*] file ...

DESCRIPTION

Roff formats text according to control lines embedded in the text in the given files. Encountering a nonexistent file terminates printing. Incoming interconsole messages are turned off during printing. The optional flag arguments mean:

- +n* Start printing at the first page with number *n*.
- n* Stop printing at the first page numbered higher than *n*.
- s* Stop before each page (including the first) to allow paper manipulation; resume on receipt of an interrupt signal.
- h* Insert tabs in the output stream to replace spaces whenever appropriate.

Input consists of intermixed *text lines*, which contain information to be formatted, and *request lines*, which contain instructions about how to format it. Request lines begin with a distinguished *control character*, normally a period.

Output lines may be *filled* as nearly as possible with words without regard to input lineation. Line *breaks* may be caused at specified places by certain commands, or by the appearance of an empty input line or an input line beginning with a space.

The capabilities of *roff* are specified in the attached Request Summary. Numerical values are denoted there by *n* or *+n*, titles by *t*, and single characters by *c*. Numbers denoted *+n* may be signed *+* or *-*, in which case they signify relative changes to a quantity, otherwise they signify an absolute resetting. Missing *n* fields are ordinarily taken to be 1, missing *t* fields to be empty, and *c* fields to shut off the appropriate special interpretation.

Running titles usually appear at top and bottom of every page. They are set by requests like

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.he 'part1'part2'part3'
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Part1 is left justified, part2 is centered, and part3 is right justified on the page. Any % sign in a title is replaced by the current page number. Any nonblank may serve as a quote.

ASCII tab characters are replaced in the input by a *replacement character*, normally a space, according to the column settings given by a *.ta* command. (See *.tr* for how to convert this character on output.)

Automatic hyphenation of filled output is done under control of *.hy*. When a word contains a designated *hyphenation character*, that character disappears from the output and hyphens can be introduced into the word at the marked places only.

FILES

/usr/lib/suftab	suffix hyphenation tables
/tmp/rtn?	temporary

SEE ALSO

nroff (I), troff (I)

BUGS

Roff is the simplest of the runoff programs, but is utterly frozen.

REQUEST SUMMARY

<i>Request</i>	<i>Break</i>	<i>Initial</i>	<i>Meaning</i>
.ad	yes	yes	Begin adjusting right margins.
.ar	no	arabic	Arabic page numbers.
.br	yes	-	Causes a line break – the filling of the current line is stopped.
.bl n	yes	-	Insert of n blank lines, on new page if necessary.
.bp +n	yes	n=1	Begin new page and number it n; no n means '+1'.
.cc c	no	c=.	Control character becomes 'c'.
.ce n	yes	-	Center the next n input lines, without filling.
.de xx	no	-	Define parameterless macro to be invoked by request '.xx' (definition ends on line beginning '..').
.ds	yes	no	Double space; same as '.ls 2'.
.ef t	no	t=****	Even foot title becomes t.
.eh t	no	t=****	Even head title becomes t.
.fi	yes	yes	Begin filling output lines.
.fo	no	t=****	All foot titles are t.
.hc c	no	none	Hyphenation character becomes 'c'.
.he t	no	t=****	All head titles are t.
.hx	no	-	Title lines are suppressed.
.hy n	no	n=1	Hyphenation is done, if n=1; and is not done, if n=0.
.ig	no	-	Ignore input lines through a line beginning with '..'.
.in +n	yes	-	Indent n spaces from left margin.
.ix +n	no	-	Same as '.in' but without break.
.li n	no	-	Literal, treat next n lines as text.
.ll +n	no	n=65	Line length including indent is n characters.
.ls +n	yes	n=1	Line spacing set to n lines per output line.
.m1 n	no	n=2	Put n blank lines between the top of page and head title.
.m2 n	no	n=2	n blank lines put between head title and beginning of text on page.
.m3 n	no	n=1	n blank lines put between end of text and foot title.
.m4 n	no	n=3	n blank lines put between the foot title and the bottom of page.
.na	yes	no	Stop adjusting the right margin.
.ne n	no	-	Begin new page, if n output lines cannot fit on present page.
.nn +n	no	-	The next n output lines are not numbered.
.n1	no	no	Add 5 to page offset; number lines in margin from 1 on each page.
.n2 n	no	no	Add 5 to page offset; number lines from n; stop if n=0.
.ni +n	no	n=0	Line numbers are indented n.
.nf	yes	no	Stop filling output lines.
.nx filename	-	-	Change to input file 'filename'.
.of t	no	t=****	Odd foot title becomes t.
.oh t	no	t=****	Odd head title becomes t.
.pa +n	yes	n=1	Same as '.bp'.
.pl +n	no	n=66	Total paper length taken to be n lines.
.po +n	no	n=0	Page offset. All lines are preceded by n spaces.
.ro	no	arabic	Roman page numbers.
.sk n	no	-	Produce n blank pages starting next page.
.sp n	yes	-	Insert block of n blank lines, except at top of page.
.ss	yes	yes	Single space output lines, equivalent to '.ls 1'.
.ta n n..	-	-	Pseudotab settings. Initial tab settings are columns 9 17 25 ...
.tc c	no	space	Tab replacement character becomes 'c'.
.ti +n	yes	-	Temporarily indent next output line n spaces.
.tr cdef..	no	-	Translate c into d, e into f, etc.
.ul n	no	-	Underline the letters and numbers in the next n input lines.