NAME

mm – text formatting (memorandum) macros

SYNOPSIS

nroff –**mm** [*options*] *filename* . . .
troff –**mm** [*options*] *filename* . . .

AVAILABILITY

SUNWdoc

DESCRIPTION

This package of **nroff**(1) and **troff**(1) macro definitions provides a formatting facility for various styles of articles, theses, and books. When producing 2-column output on a terminal or lineprinter, or when reverse line motions are needed, filter the output through **col**(1). All external –**mm** macros are defined below.

Note: this –**mm** macro package is an extended version written at Berkeley and is a superset of the standard –**mm** macro packages as supplied by Bell Labs. Some of the Bell Labs macros have been removed; for instance, it is assumed that the user has little interest in producing headers stating that the memo was generated at Whippany Labs.

Many **nroff** and **troff** requests are unsafe in conjunction with this package. However, the first four requests below may be used with impunity after initialization, and the last two may be used even before initialization:

.bp	begin new page
.br	break output line
.sp *n*	insert n spacing lines
.ce *n*	center next n lines
.ls *n*	line spacing: *n***=1** single, *n***=2** double space
.na	no alignment of right margin

Font and point size changes with **\f** and **\s** are also allowed; for example, **\fIword\fR** will italicize *word*. Output of the **tbl**(1), **eqn**(1) and **refer**(1) preprocessors for equations, tables, and references is acceptable as input.

REQUESTS

Macro Name	Initial Value	Break? Reset?	Explanation
.1C	on	y,y	one column format on a new page
.2C [*l*]	–	y,y	two column format *l*=line length
.AE	–	y	end abstract
.AL [*t*] [*i*] [*s*]	*t*=**1**;*i*=**.Li**;*s*=**0**	y	Start automatic list type *t*=[**1**,**A**,**a**,**I**,**i**] **1**=arabic numbers; **A**=uppercase lett **a**=lowercase letters; **I**=uppercase Ro numerals; **i**=lowercase Roman nume indentation *i*; separation *s*
.AS *m* [*n*]	*n*=**0**	y	begin abstract
.AU	–	y	author's name
.AV *x*	–	y	signature and date line of verifier *x*
.B *x*	–	n	embolden *x*; if no *x*, switch to boldfa
.BE	–	y	end block text

.BI *x y*	–	n	embolden *x* and underline *y*
.BL	–	y	bullet list
.BR *x y*	–	n	embolden *x* and use Roman font for
.BS	–	n	start block text
.CN	–	y	same as **.DE** (**nroff**)
.CS	–	y	cover sheet
.CW	–	n	same as **.DS I** (**nroff**)
.DE	–	y	end display
.DF [*p*] [*f*] [*rp*]	*p*=**L**;*f*=**N**	y	start floating display; position *p*=[**L**,**C** **L**=left; **I**=indent; **C**=center; **CB**=cente fill *f*=[**N**,**Y**]; right position *rp* (fill only
.DL [*i*] [*s*]	–	y	start dash list
.DS [*p*] [*f*] [*rp*]	*p*=**L**;*f*=**N**	y	begin static display (see **.DF** for argument descriptions)
.EC *x* [*n*]	*n*=**1**	y	equation title; equation *x*; number *n*
.EF *x*	–	n	even footer appears at the bottom of even-numbered pages; *x*="*l*′*c*′*r*" *l*=left; *c*=center; *r*=right
.EH *x*	–	n	even header appears at the top of even-numbered pages; *x*="*l*′*c*′*r*" *l*=left; *c*=center; *r*=right
.EN	–	y	end displayed equation produced by
.EQ	–	y	break out equation produced by **eqn**
.EX *x* [*n*]	*n*=**1**	y	exhibit title; exhibit *x* number *n*
.FD [*f*] [*r*]	*f*=**10**;*r*=**1**	n	set footnote style format *f*=[**0-11**]; renumber *r*=[**0**,**1**]
.FE	–	y	end footnote
.FG *x* [*n*]	*n*=**1**	y	figure title; figure *x*; number *n*
.FS	–	n	start footnote
.H *l* [*t*]	–	y	produce numbered heading level *l*=[**1-7**]; title *t*
.HU *t*	–	y	produce unnumbered heading; title *t*
.I *x*	–	n	underline *x*
.IB *x y*	–	n	underline *x* and embolden *y*
.IR *x y*	–	n	underline *x* and use Roman font on *y*
.LE [*s*]	*s*=**0**	y	end list; separation *s*
.LI [*m*] [*p*]	–	y	start new list item; mark *m* prefix *p* (mark only)
.ML *m* [*i*] [*s*]	*s*=**0**	y	start marked list; mark *m* indentation *i*; separation *s*=[**0**,**1**]
.MT *x*		y	memo title; title *x*
.ND *x*		n	no date in page footer; *x* is date on co
.NE	–	y	end block text
.NS	–	y	start block text

.OF *x*	–	n	odd footer appears at the bottom of odd-numbered pages; *x*="*l′c′r*" *l*=left; *c*=center; *r*=right
.OF *x*	–	n	odd header appears at the top of odd-numbered pages; *x*="*l′c′r*" *l*=left; *c*=center; *r*=right
.OP	–	y	skip to the top of an odd-number pag
.P [*t*]	*t*=**0**	y,y	begin paragraph; *t*=[**0**,**1**] **0**=justified; **1**=indented
.PF *x*	–	n	page footer appears at the bottom of every page; *x*="*l′c′r*" *l*=left; *c*=center; *r*=right
.PH *x*	–	n	page header appears at the top of every page; *x*="*l′c′r*" *l*=left; *c*=center; *r*=right
.R	on	n	return to Roman font
.RB *x y*	–	n	use Roman on *x* and embolden *y*
.RI *x y*	–	n	use Roman on *x* and underline *y*
.RP *x*	-	y,y	released paper format ? *x*=no stops title on first
.RS	5n	y,y	right shift: start level of relative inde
.S *m n*	–	n	set character point size & vertical spa character point size *m*; vertical space
.SA *x*	*x*=**1**	n	justification; *x*=[**0**,**1**]
.SK *x*	–	y	skip *x* pages
.SM	–	n	smaller; decrease point size by 2
.SP [*x*]	–	y	leave *x* blank lines
.TB *x* [*n*]	*n*=**1**	y	table title; table *x*; number *n*
.TC	–	y	print table of contents (put at end of input file)
.TE	–	y	end of table processed by tbl
.TH	–	y	end multi-page header of table
.TL	–	n	title in boldface and two points large
.TM	–	n	UC Berkeley thesis mode
.TP *i*	y	y	*i*=p.i. Begin indented paragraph, with the tag given on the next text lir Set prevailing indent to *i*.
.TS *x*	–	y,y	begin table; if *x*=**H** table has multi-page header
x P 0 (view:<–y>Contents) link-dest			
.TY	–	y	display centered title **CONTENTS**
.VL *i* [*m*] [*s*]	*m*=**0**;*s*=**0**	y	start variable-item list; indentation *i* mark-indentation *m*; separation *s*

REGISTERS

Formatting distances can be controlled in –**mm** by means of built-in number registers. For example, this sets the line length to 6.5 inches:

.nr LL 6.5i

Here is a table of number registers and their default values:

Name	Register Controls	Takes Effect	Default
Cl	contents level	table of contents	2
De	display eject	display	0
Df	display floating	display	5
Ds	display spacing	display	1v
Hb	heading break	heading	2
Hc	heading centering	heading	0
Hi	heading indent	heading	1
Hi	heading spacing	heading	1
Hu	heading unnumbered	heading	2
Li	list indentation	list	6 (**nroff**)
			5 (**troff**)
Ls	list spacing	list	6
Pi	paragraph indent	paragraph	5
Pt	paragraph type	paragraph	1
Si	static indent	display	5 (**nroff**)
			3 (**troff**)

When resetting these values, make sure to specify the appropriate units. Setting the line length to 7, for example, will result in output with one character per line. Setting **Pi** to 0 suppresses paragraph indentation

Here is a list of string registers available in –**mm**; they may be used anywhere in the text:

Name	String's Function
*Q	quote (" in **nroff,** `` in **troff**)
*U	unquote (" in **nroff,** '' in **troff**)
*–	dash (**--** in **nroff,** **—** in **troff**)
*(MO	month (month of the year)
*(DY	day (current date)
**	automatically numbered footnote
*´	acute accent (before letter)
*`	grave accent (before letter)
*^	circumflex (before letter)
*,	cedilla (before letter)
*:	umlaut (before letter)
*~	tilde (before letter)
\(BU	bullet item
\(DT	date (*month day*, *yr*)
\(EM	em dash
\(Lf	**LIST OF FIGURES** title

\(Lt **LIST OF TABLES** title
\(Lx **LIST OF EXHIBITS** title
\(Le **LIST OF EQUATIONS** title
\(Rp **REFERENCES** title
\(Tm trademark character (TM)

When using the extended accent mark definitions available with **.AM**, these strings should come after, rather than before, the letter to be accented.

FILES

/usr/share/lib/tmac/m
/usr/share/lib/tmac/mm.[nt]
nroff and **troff** definitions of **mm**.

SEE ALSO

col(1), **eqn**(1), **nroff**(1), **refer**(1), **tbl**(1), **troff**(1)

BUGS

Floating keeps and regular keeps are diverted to the same space, so they cannot be mixed together with predictable results.